"Does executive compensation matter to bank performance? Experimental evidence from Jordan"

AUTHORS	Marwan Mansour 🙃 Mo'taz Al Zobi Mohammed Saram 🝺 R Luay Daoud 🝺 Ahmad Marei 🍺	
ARTICLE INFO	Marwan Mansour, Mo'taz Al Zobi, Moham Marei (2023). Does executive compensati Experimental evidence from Jordan. <i>Bank</i> doi:10.21511/bbs.18(3).2023.14	med Saram, Luay Daoud and Ahmad on matter to bank performance? <i>As and Bank Systems</i> , <i>18</i> (3), 164-176.
DOI	http://dx.doi.org/10.21511/bbs.18(3).2023.	14
RELEASED ON	Monday, 25 September 2023	
RECEIVED ON	Saturday, 05 August 2023	
ACCEPTED ON	Wednesday, 13 September 2023	
LICENSE	(cc) BY This work is licensed under a Creative Co License	ommons Attribution 4.0 International
JOURNAL	"Banks and Bank Systems"	
ISSN PRINT	1816-7403	
ISSN ONLINE	1991-7074	
PUBLISHER	LLC "Consulting Publishing Company "Bu	usiness Perspectives"
FOUNDER	LLC "Consulting Publishing Company "Bu	usiness Perspectives"
P	B	
NUMBER OF REFERENCES	NUMBER OF FIGURES	NUMBER OF TABLES
41	0	6

© The author(s) 2024. This publication is an open access article.





BUSINESS PERSPECTIVES

LLC "CPC "Business Perspectives" Hryhorii Skovoroda lane, 10, Sumy, 40022, Ukraine www.businessperspectives.org

Received on: 5th of August, 2023 **Accepted on:** 13th of September, 2023 **Published on:** 25th of September, 2023

© Marwan Mansour, Mo'taz Al Zobi, Mohammed Saram, Luay Daoud, Ahmad Marei, 2023

Marwan Mansour, Ph.D., Assistant Professor, Business Faculty, Amman Arab University, Jordan. (Corresponding author)

Mo'taz Al Zobi, Ph.D., Assistant Professor, Business Faculty, Amman Arab University, Jordan.

Mohammed Saram, Master, Senior Instructor, Department of Management, Business School, Algonquin College of Kuwait, Kuwait.

Luay Daoud, Ph.D., Assistant Professor, Institute of Public Administration, Saudi Arabia.

Ahmad Marei, Ph.D., Assistant Professor, Faculty of Business, Middle East University, Jordan.



This is an Open Access article, distributed under the terms of the Creative Commons Attribution 4.0 International license, which permits unrestricted re-use, distribution, and reproduction in any medium, provided the original work is properly cited.

Conflict of interest statement: Author(s) reported no conflict of interest Marwan Mansour (Jordan), Mo'taz Al Zobi (Jordan), Mohammed Saram (Kuwait), Luay Daoud (Saudi Arabia), Ahmad Marei (Jordan)

DOES EXECUTIVE COMPENSATION MATTER TO BANK PERFORMANCE? EXPERIMENTAL EVIDENCE FROM JORDAN

Abstract

The high pays received by executives has gained global attention. This study examines the impact of executive compensation on the performance of Jordanian banks, an area that has not been explored much. The study uses empirical methods for data collection and analysis. Dependent variables include Return on Equity (ROE) and Tobin's Q performance, while total compensation incentives is the main independent variable. Control variables include bank size, bank age, leverage, and female executives. Through balanced panel data analysis comprising 196 bank-year observations, this quantitative research paper applies Ordinary Least Squares (OLS), fixed-effect, and Generalized Method of Moment (GMM) methods. These methods accurately establish the compensation-performance relationship in the banking sector from 2009 to 2022. The coefficient of determination (R2) for the ROE model: 51.63%, Tobin-Q model: 39.33%. These robust models support the main finding that executive compensation is significantly and positively correlated with operating and market-based performance indicators. Results validate the agency hypothesis, indicating that executives are rewarded for bank performance indicators. Consequently, a one-unit increase in executive compensation leads to a rise of 22.8 cents in ROE and 29.51 cents in Tobin-Q. Additionally, bank size, age, leverage, and female executives positively impact bank performance indicators. A modification of BSIZE, BAGE, LEV, and FEMALE by oneunit results in a proportional adjustment of 26.1 cents, 16.6 cents, 2.07 cents, and 48.6 cents, respectively, in ROE. Additionally, a one-unit alteration in BSIZE, BAGE, LEV, and FEMALE corresponds to variations of 77.6 cents, 56.42 cents, 34.39 cents, and 48.8 cents, in Tobin-Q, all in the same direction.

Keywords

corporate governance, senior executive compensation, agency theory, developing country

JEL Classification G21, G30, J33, L25

INTRODUCTION

Due to the separation of ownership and control in modern organizations (Aslam et al., 2019), various internal governance mechanisms have emerged to address the agency issues between agents and principals (Mansour et al., 2022a), including executive compensation systems (Morri et al., 2023). Effective executive compensation systems can aid in attracting competent chief executive officers (CEOs) committed to advancing a firm's goals and protecting shareholders' investments (Olaniyi, 2019). However, a much-debated question is about the effect of CEO compensation on the performance of businesses (Basu et al., 2007). From the principal-agent theory perspective, CEO compensation (Dai et al., 2023), specifically linked with operational performance, could diminish agency costs by aligning the interests of CEOs with owners/shareholders, by incentive contracts (Farooq et al., 2023). The underlying argument is that tying CEO compensation to exceptional firm performance incentivizes them (Alves et al., 2016). The supporters of agency theory have highlighted the pivotal role of CEO's compensation in achieving desired results for sustained business success (Abdalkrim, 2019; Kayani & Gan, 2022). On the other hand, academics asserted that excessive executive compensation wastes business resources (Wang et al., 2021), erodes investor trust, obstructs corporate growth (Zoghlami, 2021), and renders firms vulnerable, causing dissatisfaction among shareholders and the general public as a result of the notable salary gap between CEOs and regular employees (Khaled, 2020). Additionally, Stanford University surveys from the US demonstrate that CEO compensation was excessive (Harymawan et al., 2020). Resultantly, due to an ongoing debate, prior studies are widely heterogeneous (Dias et al., 2020). Therefore, the escalating issue of CEO compensation has gained global significance in contemporary society (Rasoava, 2019; Sajnóg & Rogozińska-Pawełczyk, 2022), particularly following the 2008 financial crisis (Aslam et al., 2019; Bhuyan et al., 2022). Given the foregoing, this study is significant because it aims to provide an answer to an essential question in the Jordanian context as a developing country: What association exists between the CEOs' compensation and the performance of banks?

1. LITERATURE REVIEW AND HYPOTHESIS

The success or failure of the business is primarily affected by the efficiency of the methods employed by businesses to reward and encourage their staff, including CEOs (Sajnóg & Rogozińska-Pawełczyk, 2022). CEO compensation is crucial for attracting and keeping talented staff in a fiercely competitive global economy (Deysel & Kruger, 2015; Sheikh et al., 2018). Furthermore, CEO compensation is a key signal of a firm's dedication to effective leadership and strategic decision-making (Morri et al., 2023), impacting investors' and stakeholders' assessments of the firm's overall success (Dai et al., 2023). Although the compensation-performance connection has been well studied (Raithatha & Komera, 2016), mostly in Anglo-Saxon nations, it is still a contested topic in other situations. (Chen & Hassan, 2022; Demirer & Yuan, 2013). Executive compensation is a pillar of good governance practices (Zoghlami, 2021). Consequently, some theories support the role of executive compensation in enhancing firm performance, while others reject it (Ozkan, 2011; Wang et al., 2021). Many studies worldwide mostly used agency theory to clarify the relationship between CEO compensation and firm performance (Abdalkrim, 2019; Bhuyan et al., 2022; Wang et al., 2021). According to agency theory, CEOs are self-interested and thus can impair the firm's interests in order to pursue personal gain, resulting in increased agency costs (Deysel & Kruger, 2015; Swagerman & Terpstra, 2007). Accordingly, compensation and incentives must be tailored to boost shareholder value while preventing opportunistic conduct that may render

managers to serve solely their own interests (Dias et al., 2020). This viewpoint is supported by a study by Abdalkrim (2019), which employed a fixed effect model to analyze longitudinal data and found a positive correlation between CEO compensation and the performance of Kingdom of Saudi Arabialisted firms between 2005 and 2014. Empirical evidence from Pakistan by Aslam et al. (2019) supports the agency theory approach, which investigated non-financial listed enterprises between 2009 and 2016 using the GMM technique. The current findings indicate that there is a positive correlation between CEO pay and company performance on the Karachi Stock Exchange. Studies contend that competitive compensation may enhance executive performance in fulfilling shareholder goals, but investors do not appear to value a rise in CEO compensation. According to the agency hypothesis, one may argue that investors worry about potential executive opportunistic conduct that would encourage them to take advantage of overcompensation. This viewpoint is experimentally corroborated by Zoghlami (2021), who examined the relationship between CEO compensation and business performance using balanced panel data of listed French companies from (2009-2018). The study applied the GMM and fixed effect models and discovered a positive association between the accounting performance (ROA, ROE), but it also observed an insignificant negative relationship between CEO compensation and Tobin-Q performance. A different study proposes that to address agency issues, energy companies should establish an equitable compensation incentive plan (Wang et al., 2021). This study examines the connection between executive remuneration and

the financial performance (ROE, ROA, and Tobin Q) of global energy corporations. The OLS method gathered data from 121 publicly traded energy firms during 2010-2019 for empirical investigation. The results reveal a substantial positive association, aligning with agency theory. Furthermore, a comprehensive seven-year study conducted by Deysel and Kruger (2015) regarding the correlation of CEO compensation with performance in the South African banking sector yielded a statistically significant positive link. Consequently, this favorable association indicates the alignment of interests between principals, shareholders, and agents or managers, thus reducing agency costs. Consequently, improved business performance becomes attainable. Conversely, Basu et al. (2007) identified an adverse connection between accounting performance and major Japanese corporations from 1992 to 1996. Numerous studies suggest a fragile or even inverse relationship between CEO pay and corporate success. Demirer and Yuan (2013) observed a negative correlation between wage remuneration in the U.S. restaurant industry and enterprise performance spanning from 1999 to 2010. Similarly, Dias et al. (2020) discovered a negative correlation between Brazilian firms and the fixed component of executive compensation and incentive structure. Recent evidence (Ibrahim & Maitala, 2023) from Nigeria shows a negative connection between executive pay and non-financial listed firms' ROE on Nigeria's stock exchange. Barde et al. (2023) evaluated the link between CEO compensation and the value of Nigerian banks throughout the period of 2010-2021 using a random-effect model and discovered an important and positive nexus between them, which contrasts with the findings of Ibrahim and Maitala (2023). While Chen and Hassan, (2022) found that CEO compensation has a significantly positive association with the performance of China's listed firms during a period (2016-2018). Depending on bonding theory, Cui et al. (2021) did not find any relationship between CEO compensation and non-financial listed firms' performance on China and Hong Kong stock exchanges (2005-2017). Ozkan (2011) claimed that the relationship between CEO salary and the performance of UK non-financial enterprises does not seem to work in practice using imbalanced panel data collected over a 7-year period and a fixed effect model. Rasoava (2019) also uncovered data from South Africa indicating a

strong non-linear relationship between CEO compensation and the success of large listed companies on the JSE from 2005 to 2016. Using the fixed effect model, Khaled (2020) investigated the association between CEO pay and the financial performance of industrial sectors listed on the Amman Stock Exchange (ASE). The mixed findings of this study indicate that CEO compensation has a large positive link with net profit margin and a weak positive correlation with Tobin's Q, but a considerable negative correlation with return on assets and profits per share. To date, analyses have found mixed conclusions that vary over time frames (Olaniyi, 2019) firms, sectors within different countries (Al Farooque et al., 2019), and different methodologies (Harymawan et al., 2020), which is a gap in the governance literature that still exists (Rasoava, 2019). Nevertheless, little is known about the efficacy of Jordan's CEO compensation system. Consequently, the generalizability of previous research conducted across diverse environments, governance frameworks, enterprises, and industries is questionable (Mansour et al., 2022a; Mansour et al., 2020). However, the bulk of these studies have focused on non-financial sectors in their empirical investigations (Aslam et al., 2019; Khaled, 2020; Marei et al., 2022). The existing status of the literature, which has a restricted focus in this field of study, served as the inspiration for this study. Therefore, the aim of this analysis is to empirically explore the effect of CEO compensation on the performance of the Jordanian banking sector during periods from 2009 to 2022; a topic that has received insufficient attention. As per the above review, the following hypothesis is expected to be proposed:

H1: There is a positive and significant correlation between the compensation of CEOs and the performance of the banking sector in Jordan.

2. METHOD

2.1. Study sample

The whole relevant data for the study, which cover the entire population of listed banks at ASE for the period 2009–2022, were taken from the annual reports of fourteen banks that were deposited in ASE and the Securities Depository Center (SDC). There are 196 firm-year observations in all. By using content analysis, the panel data were manually gathered (Mansour et al., 2020). The data were winsorized at the 1st and 99th percentiles to account for the impact of outliers (Raithatha & Komera, 2016). STATA 14 software will be used to process panel data.

The mentioned Jordanian banks serve as a noteworthy example for a variety of reasons (Al-Dhaimesh, 2019). According to Marei et al. (2022), the banking industry aids in the Kingdom's social and economic growth. For instance, the banking industry's assets, loans, and deposits in 2018 accounted for 173%, 112%, and 117% of GDP, respectively. The banking industry is also heavily regulated. Mandatory corporate governance (CG) requirements have been enforced by the Central Bank of Jordan since 2008 (Mansour et al., 2023b), which helps Jordan draw in foreign investment (Mansour et al., 2022b).

2.2. Definitions and measurement of variables

The following sections outline the elements of the suggested framework, as well as the definitions and methods for measuring the research variables:

Table 1. Definitions and measurement of studyvariables

Variable	Acronym	Definition & Measurement					
Dependent variables							
Operating Performance	ROE	Net income/shareholders' equity					
Market Performance	ket Tobin-Q Market value of equity/ book of Equity						
	Indepe	ndent variable					
Total Executive Compensation	CEO-PAY	Natural logarithm of total executive compensation incentives perceived by CEOs of bank's					
	Cont	rol variables					
Bank's Size	BSIZE	Natural logarithm of total assets of intended Bank					
Bank's Age	BAGE	Natural logarithm of total number of years since a bank was established to the date of observation					
Leverage	LEV	Total Debt/Total Assets					
Female Executive	FEMALE	Number of female executives in a bank					
Dummy Years	YEAR	Dummies to observe the time- effects from (2009–2022)					

2.2.1. Bank performance (dependent variable)

To enhance the quality of research results, this study has employed two different indicators to estimate bank performance (Al Farooque et al., 2019; Alodat et al., 2022). While the ROE is utilized as it is considered a popular ratio as an alternative measure of businesses performance which is widely used in the accounting and financing literature (Alodat et al., 2023a; Mansour et al., 2022a; Mansour et al., 2022b), Tobin's Q is employed as an alternative market-based measure of bank performance (Barde et al., 2023; Khaled, 2020). Studies have used operating: ROE, and market-based measures: Tobin's Q as an integrative way to get a better picture of businesses performance (Ahamed, 2022; Al-Dhaimesh, 2019; Saleh et al., 2021).

2.2.2. Total executive compensation (independent variable)

According to the relevant literature (Khaled, 2020; Wang et al., 2021; Zoghlami, 2021), this study assessed CEO compensation in terms of the entirety of compensation and remuneration received by all CEOs of listed banks, encompassing wages, salaries, remunerations, as well as travel and transportation expenses, both within and outside of Jordan.

2.2.3. Control variables

According to the related literature (Abdalkrim, 2019; Chen & Hassan, 2022; Zoghlami, 2021), five variables were placed in the existing study to control for other bank attributes that could influence its performance: Bank Size, Bank Age, Leverage, and Female Executive (Al Farooque et al., 2019; Flabbi et al., 2019; Morri et al., 2023). In addition, the analysis also includes a year dummy variable to detect any exogenous shock during spanned fourteen years that are joint to all banks (Han & Mun, 2023). Table 2 indicates the definitions and measures of all control variables. The rationale for adding female executives as a control variable is that the ratio of female executives in enterprises worldwide displays a growing trend, as well as it has imperative to affecting financial performance (Chen & Hassan, 2022; Flabbi et al., 2019; Sajnóg & Rogozińska-Pawełczyk, 2022). Also, female executives are supporting the evaluation of the role

of women in social and enterprise development, which is of tremendous importance to the keeping of social equity (Sarhan et al., 2019).

2.3. Model specification

The OLS method for panel data is employed in this study, which is one of the most popular statistical tools for testing hypotheses in the social sciences (Alves et al., 2016). Hence, panel data's key advantage is the substantial increase in sample size despite having few firms. Employing panel sets augments the available observations, thereby offering the study significant statistical analysis. This study objective involved a thorough analysis of the correlation between CEO compensation in Jordanian banks and the performance of their respective institutions. Employing the baseline regression model, valuable insights can be obtained that will provide a comprehensive understanding of this relationship:

 $\begin{aligned} Bank \ Performance &= \beta_0 + \beta_1 CEO - \\ PAY_{i,t} + \beta_2 BSIZE_{i,t} + \beta_3 BAGE_{i,t} + \\ + \beta_4 LEV_{i,t} + \beta_5 FEMALE_{i,t} + \beta_6 Year_{i,t} + \varepsilon_{i,t}, \end{aligned} \tag{1}$

where *i* denotes listed bank (1-14), *t* period of study (2009–2022). All definitions of the variables in Table 1 are provided.

3. RESULTS

3.1. Diagnostic tests

The screening and preparation of panel data involved diagnostic test methods to ensure precise data analysis and prevent misleading outcomes (Saleh et al., 2022). These tests address the fundamental statistical assumptions in multivariate analysis. To accomplish this, the study will commence with conducting tests to identify outliers (Alodat et al., 2023a), normality tests (Mansour et al., 2023), data transformation, linearity tests (Alodat et al., 2022), multicollinearity tests (Khaled, 2020; Mansour et al., 2022a), heteroscedasticity (Alves et al., 2016; Saleh et al., 2021), and autocorrelation. Table 2 and Table 3 show the results of the normality and tests. As one can see in Table 2, the results of normality tests outline the value of skewness and kurtosis, exhibiting that the panel data were normally distributed. In addition, Table 3 shows the results of multicollinearity tests by variance inflation factors (VIFs) ratios for relevant independent variables (Shatnawi et al., 2022). Consequently, it was revealed that all VIF ratios were below of threshold value which is 10 (Khaled, 2020). Thus, there is no concern for multicollinearity problems in these variables (Morri et al., 2023).

3.2. Descriptive analysis and data description

Table 2 illustrates the descriptive analysis summary of the variables engaged in the multivariate regression model. Thus, Table 2 primarily offers the descriptive statistics of research variables for the unit of study which are 14 listed banks in ASE during the period 2009–2022, through the total number of observations, mean (average) value, standard deviation, minimum, as well as maximum value of these variables.

As Table 2 shows, the ROE ranged from 0.566% to 15.991%, with a mean value (Standard deviation) of 8.06% (3.395). This highlights the variation in banks' ROE during the study period. Also, the Tobin-Q as dependent variable ranged from 0.436% to 2.441%, with the mean value (Standard deviation) of 0.933% (0.409). These statistics infer that there is little difference in market performance across the listed banks on the ASE.

Likewise, Table 2 delivers summary statistics for CEO-PAY, which is the main explanatory variable. CEO-PAY ranged between 13.997% and 15.701%, with a standard deviation of 0.333, and the mean CEO-PAY value was 14.734%.

Table 2 also incorporates the description statistics for the relevant control variables. The BSIZE ranged between 20.304% and 24.049%, with a standard deviation of 0.85, and the mean bank size value was 21.77%. The BAGE ranged between 19 and 92 years, with a standard deviation of 15.807, and the average of the banks' age was 46.07 years. These statistics display that there is a considerable disparity in the banks' age. The LEV ranged between 80.2% and 93.4%, with a standard deviation of 2.864, and the average bank gearing value was 86.9%. These statistics show a high ratio

Variables	Observation	Mean	Standard deviation	Minimum	Maximum	Skewness	Kurtosis
ROE	196	8.06	3.395	0.566	15.991	-0.198	2.179
Tobin-Q	196	0.933	0.409	0.436	2.441	0.719	2.199
CEO-PAY	196	14.734	0.333	13.997	15.701	0.74	1.995
BSIZE	196	21.77	0.85	20.304	24.049	0.222	3.231
BAGE	196	46.07	15.807	19	92	1.219	3.179
LEV	196	86.9	2.864	80.2	93.4	-0.045	2.251
FEMALE	196	1.96	1.577	0	6	0.594	2.543

Table 2. Descriptive statistics and normality tests

of financial leverage in listed banks. The final control variable is FEMALE, which ranged between 0 and 6, with a standard deviation of 1.577, and the average number of female executives working in banks was almost two. These statistics show that female executives are nowadays taking more on the globe business. Thus, the participation of female executives in bank performance is valuable to advance the grounds of gender diversity in the Jordanian context (Alodat et al., 2023b).

3.3. Univariate analysis

Table 3 illustrates several significant correlations among pairs of continuous independent variables. The correlation coefficients between independent variables did not exceed the threshold of 0.700, indicating that no substantial concern in the multivariate regression model due to multicollinearity matter (Aslam et al., 2019). Table 3 exhibits correlation coefficient among bank performance, executive compensation, and control variables. The CEO-PAY is clearly positively correlated with ROE (0.525) and Tobin-Q (0.359), at the 5% level. It seems that all control variables also have a clear

Table 3. Correlat	tion matrix and	d multicollinearity	/ test
-------------------	-----------------	---------------------	--------

positive correlation with the performance measures of banks. This indicates that these variables are important factors to consider when assessing the success of a bank.

Based on Table 3, it is evident that the variance inflation factors' (VIF) ratios are significantly lower than the benchmark value of 10. This finding implies that there is no severe multicollinearity concern among the explanatory variables (Khaled, 2020). As a result, the regression analysis outcomes can be interpreted with a higher level of certainty and reliance (Abdalkrim, 2019).

3.4. Multivariate regression analysis

An analysis of traditional OLS regression was conducted to evaluate the correlation between performance indicators and additional pertinent factors. The panel dataset's OLS regression model offers numerous advantages (Sajnóg & Rogozińska-Pawełczyk, 2022), including clearness and simplicity in its implementation (Alodat et al., 2023a), raising statistical strength (Mansour et al., 2022b), and acquiring time-invariant effects (Saleh et al.,

Variable	ROE	Tobin-Q	CEO-PAY	BSIZE	BAGE	LEV	FEMALE	
ROE	1.000	-	_	-	-	_	_	
T-1:- 0	0.536*	1 000						
D-niaoi	0.0000	1.000	-	-	-	-	-	
	0.525*	0.359*	1 0000					
CEO-PAY 0	0.0000	0.0000	1.0000	-	-	-	-	
0.	0.188*	0.385*	0.633*	1 000			-	
DSIZE	0.035	0.0000	0.0000	1.000	_	-		
B.4.05	0.196*	0.567*	0.378*	0.465*	0.465* 1.000			
DAGE	0.028	0.0000	0.0000	0.0000	1.000	-	_	
	0.669*	0.296*	-0.223*	0.087	-0.145			
	0.0000	0.0008	0.0121	0.333	0.107	1.000	-	
	0.413*	0.201*	0.1304	0.223*	-0.023	-0.055	1 000	
FEMALE	0.0000	0.0238	0.1455	0.012	0.798	0.538	1.000	
VIF	-	-	2.07	2.61	1.35	1.07	1.31	

Note: * P < 0.05 (2-tailed).

2021). Table 4 shows that the linear regression results reveal a strong relationship between CEO-PAY and bank performance. This highlights the significance of considering executive compensation when analyzing a bank's performance. The ROE model has an R^2 of 51.63% and F-Test value of 12.47 at the 1% level. The Tobin-Q model has an R^2 of 39.33% and F-Test value of 5.09 at the 1% level. The statistical analysis confirms the validity and significance of the ROE and Tobin-Q models. Strong R^2 and F-Test values support their use for decision-making.

Based on the R² values, it can be concluded that the independent variables explain for 51.63% and 39.33% of the variation in ROE and Tobin-Q, respectively. The regression analysis (Table 4) shows that the regression coefficients between the CEO-PAY and the ROE and Tobin-Q that measure banks performance are all positive, and the two are significant at the level of 1%. It has been confirmed that Hypothesis 1, which suggests that there is a positive and significant correlation between the compensation of CEOs and the performance of the banking sector in Jordan, is accurate. This result is in complete alignment with the principles of agency theory and is further corroborated by numerous other studies. Better qualified CEOs are therefore more valued by the market and have superior operating results. In fact, every oneunit increase or decrease in CEO-PAY results in a 22.8 cents and 29.51cents change in the ROE and Tobin-Q in the same direction (other things that remain constant). According to this result, CEO compensation plays a significant role in determining performance for Jordanian banks.

Upon analyzing the control variables, it is evident that all control variables have a noteworthy positive impact on both ROE and Tobin-Q. This is clearly reflected by the coefficients outlined in Table 4. Based on correlation coefficients for ROE model in Table 4, it is clear that any increase or decrease of one unit in BSIZE, BAGE, LEV and FEMALE while keeping all other factors constant, results in a corresponding change of 26.1 cents, 16.6 cents, 2.07 cents and 48.6 cents, respectively, in the ROE indicator, and in the same direction. According to the correlation coefficients shown in Table 4 for the Tobin-Q model, it is evident that any change in BSIZE, BAGE, LEV, and FEMALE by one unit, while keeping all other variables constant, results in a corresponding change of 77.6 cents, 56.42 cents, 34.39 cents, and 48.8 cents, respectively, in the Tobin-Q, and in the same direction.

3.5. Additional analysis

To make sure that the results are solid, the study runs additional analysis in this part. Tables 5 and 6 show further analysis.

3.5.1. Re-examining the study model using a fixed effects model

Studies indicated that the OLS regression model may have some limitations, such as misspecification issues, an inability to account for individual heterogeneity, and ignoring time-dependent effects (Alves et al., 2016; Raithatha & Komera, 2016). As a result, this study decided to use alternate panel data regression models, such as fixed

Variables	ROE Model			Tobin-Q Model		
	Coefficients	Standard error	t	Coefficients	Standard error	t
Constant	0.217**	(0.0878)	-2.47	0.551*	(0.146)	3.78
CEO-PAY	0.228*	(0.0384)	5.93	0.2951*	(0.0712)	4.15
BSIZE	0.261**	(0.0903)	2.89	0.776**	(0.383)	2.03
BAGE	0.166***	(0.0898)	1.85	0.5642*	(0.1398)	4.04
LEV	0.0207**	(0.0101)	2.05	0.3439**	(0.146)	2.36
FEMALE	0.486*	(0.179)	2.72	0.488**	(0.165)	2.96
Year Dummies		Included		Included	••••••	
F-test		12.47 5.09				
Prob. > F	0.0000 0.0000					
R ²		51.63 %			39.33%	

Table 4. Panel regression results for CEOs' compensation-banks performance nexus

Note: *** P < 0.1, ** P < 0.05, and * P < 0.01.

or random effects models (Mansour et al., 2022a; Raithatha & Komera, 2016), to address any inadequacies (Sajnóg & Rogozińska-Pawełczyk, 2022). Furthermore, this technique was employed to overcome previous research limitations, such as Rasoava (2019). This study retained the fixed effect model to assess the parameters of the two models (ROE and Tobin-Q), as mentioned above, based on the Hausman test executed on the balanced panel data (Morri et al., 2023). Such specifications enable control of unobservable heterogeneity variables that may affect the performance of banks (Sheikh et al., 2018), in addition to tackling some extent of the endogeneity problem (Saleh et al., 2022).

Table 5 shows that the linear regression outcomes also disclose a strong relationship between CEO pay and bank performance. The ROE model has an R² (within) of 71.32%% and an F-Test value of 765.48 at the 1% level or better. The Tobin-Q model has an R² (within) of 44.98% and an F-Test value of 387.67 at the 1% level or better. In addition, the fixed-effects regression analysis shows in Table 5 that the regression coefficients between the natural logarithm of total compensation incentives (CEO-PAY) and the two performance indicators (ROE, Tobin-Q) that measure banks' performance are all positive, and the two are significant at the level of 1%. This means that for bank performance, every one-unit change (increase or decrease) in the CEO-PAY has a corresponding change in the ROE and Tobin-Q of 17.1 cents and 13.7 cents, respectively, in the same direction. The findings show that the findings about H1 are still relevant. Table 5 shows that when the control variables are examined, it is clear that BSIZE, BAGE, LEV, and FEMALE have a significant positive impact on both ROE and Tobin-Q.

Upon analyzing the control variables, it is evident that BSIZE, BAGE, LEV, and FEMALE have a noteworthy positive impact on both ROE and Tobin-Q. This is clearly reflected by the coefficients outlined in Table 5. Based on correlation coefficients for ROE model in Table 5, it is clear that any increase or decrease of one unit in BSIZE, BAGE, LEV and FEMALE while keeping all other factors constant, results in a corresponding change of 52.6 cents, 22.5 cents, 66.8 cents and 3094 cents, respectively, in the ROE indicator, and in the same direction. According to the correlation coefficients also shown in Table 5 for the Tobin-Q model, it is evident that any change in BSIZE, BAGE, LEV, and FEMALE by one unit, while keeping all other variables constant, results in a corresponding change of 70.1 cents, 9.33 cents, 11.77 cents, and 9.741 cents, respectively, in the Tobin-Q, and in the same direction. These results help to validate the previous findings in Table 4.

3.5.2. Endogeneity tests

Because several academic papers (Aslam et al., 2019; Bhuyan et al., 2022; Sheikh et al., 2018; Zoghlami, 2021) have demonstrated that business

Table 5. Results of a fixed-effect model for the CEO con	mpensation-bank performance nexus
--	-----------------------------------

Variables		ROE model	Tobin-Q model				
	Coefficients	Standard error	t	Coefficients	Standard error	t	
Constant	0.387*	0.0876	4.42	0.287*	0.131	2.18	
CEO-PAY	0.171*	0.0294	5.81	0.679*	0.137	4.95	
BSIZE	0.526*	0.145	3.62	0.701*	0.2425	2.89	
BAGE	0.225***	0.103	2.18	0.0933*	0.0214	4.35	
LEV	0.668**	0.288	2.32	0.1177*	0.035	3.36	
FEMALE	0.3094*	0.057	5.43	0.0974*	0.0204	4.77	
Year Dummies		Included		Included			
F-Test		765.48 387.67					
Prob. > F		0.0000			0.0000		
R² (within)		71.32%			44.98%		
Breusch & Pagan		108.04*			372.60*		
Hausman Test		33.97*			31.82*		
Observations		•	196				
Number of groups		•	14				

Note: *** P < 0.1, ** P < 0.05, and * P < 0.01. Regression with Driscoll-Kraay standard errors.

performance may potentially be a factor in CEO compensation, one can infer bias due to the endogeneity problem (Ahamed, 2022; Saleh et al., 2022). To cope with this matter, this study used a more advanced technique, dynamic panel data estimation by engaging the two-step GMM estimator (Mansour et al., 2022b; Olaniyi, 2019; Raithatha & Komera, 2016), which avoids the reverse causality problem between executive compensation and bank performance and so helps to lessen the endogeneity concern (Al Farooque et al., 2019; Farooq et al., 2023). Hence, the dynamic GMM models are also considered vigorous against autocorrelation and heteroscedasticity (Mansour et al., 2023). This study specifically incorporates a one-legged bank performance measure (ROE (t-1), Tobin-Q (t-1)) as an instrumental variable among the independent variables. This could enable us to gain insight into two major statistical matters: (a) eventual persistence in bank performance and (b) eventual endogeneity (Zoghlami, 2021).

Table 6 summarized the results of the Hansen and Arellano-Bond tests. These tests indicated the validity of the dynamic GMM models (Ibrahim & Maitala, 2023). The results of the dynamic model in Table 6 indicate that past bank performance measures (ROE (t–1), Tobin-Q (t–1)) have a significant and positive impact on the current bank performance measures (ROE, Tobin-Q). Table 6 also shows that the two-step GMM estimation yields the same results as OLS and fixed-effects regression in Tables 4 and 5. As a result, endogeneity issues were unlikely to skew the results. Thus, in the Jordanian setting, the association between executive compensation and banking performance remains valid, and endogeneity is not a concern.

Overall, all the calculated coefficients' signs remain in the same direction. Table 6 displays a predominantly positive and highly significant coefficient for CEO-PAY. This implies that a one-unit alteration (whether an increase or decrease) in CEO-PAY, while keeping other factors constant, leads to a substantial change of approximately 50.8 cents and 40.6 in ROE and Tobin-Q, respectively, in the same direction. When the control variables are examined, BSIZE, BAGE, LEV, and FEMALE have a significant positive influence on both ROE and Tobin-Q. The coefficients shown in Table 6 clearly reflect this.

Based on correlation coefficients for ROE model in Table 6, any increase or decrease of one unit in BSIZE, BAGE, LEV and FEMALE while keeping all other factors constant, results in a corresponding change of 35.8 cents, 9.84 cents, 38.18 cents and 38.52 cents, respectively, in the ROE indicator, and in the same direction. According to the correlation coefficients shown in Table 6 for the

Mariahlaa	Dyna	amic ROE model		Dynamic Tobin-Q model		
variables	Coefficients	Standard error	Z	Coefficients	Standard error	z
Constant	0.146***	0.0815	1.79	0.685*	0.1303	5.26
ROE (t-1)	0.4936*	0.1095	4.51	-	-	-
Tobin-Q (t–1)	-	-	-	0.7667*	0.0994	7.71
CEO-PAY	0.508*	0.058	8.76	0.406*	0.1275	3.18
BSIZE	0.358*	0.078	4.59	0.371*	0.111	3.34
BAGE	0.0984**	0.0456	2.16	0.0504*	0.0177	2.85
LEV	0.3818**	0.1585	2.41	0.4808*	0.2038	2.36
FEMALE	0.3852*	0.1185	3.25	0.569*	0.106	5.37
Year Dummies		Included			Included	•••••••••••••••••••••••••••••••••••••••
F-Test		418.195			44.695	
Prob > F		0.0000			0.0000	
Hansen test		0.279			0.318	
AR(1)		0.0001			0.0003	
AR(2)		0.8724			0.6359	
Observations				196	•••••••••••••••••••••••••••••••••••••••	
No. of groups				14	•	
No of instruments		9			11	

Table 6. Results of a GMM model for the CEO compensation-bank performance nexus

Note: *** P < 0.1, ** P < 0.05, and * P < 0.01.

Tobin-Q model, it is evident that any change in BSIZE, BAGE, LEV, and FEMALE by one unit, while keeping all other variables constant, results in a corresponding change of 37.1 cents, 5.04 cents, 48.08 cents, and 45.9 cents, respectively, in the Tobin-Q, and in the same direction. These results help to validate the previous findings in Table 4 and Table 5.

4. DISCUSSION

This paper explain the findings based on the accomplished analysis to discuss the results. According to the primary analysis, which used the OLS regression model, there is a positive and substantial association between total compensation incentives and the operating (ROE) and market performance (Tobin-Q) of Jordanian listed banks, indicating the efficacy of CEO compensation incentives in enhancing banks' performance. Mutual benefit in executive pays and bank performance supports agency theory (Harymawan et al., 2020), reflecting aligned interests of managers and shareholders, potentially cutting down on agency costs (Olaniyi, 2019). Thus, raising CEO compensation in banks may better inspire executives to raise their efforts for the sake of the business rather than increase bank expenditures (Wang et al., 2021; Zoghlami, 2021). To that aim, the researchers presented data indicating that CEO compensation incentives are a very significant motivator, with tangible results for bank performance (Ahamed, 2022). Furthermore, the current article's findings are consistent with Abdalkrim (2019), Aslam et al. (2019), Chen and Hassan (2022), Kayani and Gan (2022), and Wang et al. (2021). Table 4 also presents OLS regression results for control variables, namely: Bank Size (BSIZE), Bank Age (BAGE), Leverage (LEV), and Female Executive (FEMALE), indicating a significant positive influ-

ence on the operational and market performance of banks listed in Jordan. The significant relationship between a bank's size and performance implies that a bank's size reflects its ability to achieve economies of scale and market impact. As a result, larger banks have a greater potential to provide hefty CEO remuneration (Chen & Hassan, 2022; Mansour et al., 2023). However, it is found that age has a large favorable influence on bank performance. According to economic theories, the older the bank, the more experience it gains and the more skills and knowledge it acquires (Zoghlami, 2021). As a result, leverage or gearing is positively related to bank performance. Given that the majority of the listed banks are low-risk, they might borrow money to stimulate expansion (Wang et al., 2021). Furthermore, the inclusion of female CEOs is related with improved bank performance. Furthermore, the findings of the current paper are congruent with Flabbi et al. (2019) and Sarhan et al. (2019), but inconsistent with Chen and Hassan (2022). The paper then conducted a further analysis using other panel data regression methods, specifically fixed effects models, to address any shortcomings in OLS regression models. Again, Table 5 reveals favorable and statistically significant correlations between total CEO compensation and both metrics of the performance of listed Jordanian banks. These findings are compatible with the findings of Zoghlami (2021), who employed a fixed effects model. Table 5 also includes fixed-effect regression findings for all control variables that have a substantial positive influence on the performance of Jordanian banks. In general, the results presented in Table 5 are consistent with the primary findings presented in Table 4. This study likewise used a two-step GMM method and generated largely identical results achieved by fixed effects regression. These findings agree with those of Aslam et al. (2019), who employed the GMM model.

CONCLUSION

The aim of this paper was to study the link between CEO pays and bank performance in Jordan. The key finding suggests that CEO compensation incentives exhibit a robust and positive correlation with the operational and market-based performance of the Jordanian banking sector from 2009 to 2022. As a result, a one-unit increase in CEO compensation increases ROE and Tobin-Q by up to 22.8 cents and 29.51 cents, respectively. According to the study's results, CEO compensation positively affects the executive team's motivation, significantly influences bank strategy, decision-making, value generation,

and directly impacts bank performance. This confirms agency theory predictions and aligns with most research conducted worldwide. Hence, increasing CEO compensation in banks could incentivize CEOs to prioritize shareholder interests. These distinctive findings remain fitting to various forms of endogeneity. All control variables - BSIZE, BAGE, LEV, and FEMALE - have a significant positive influence on both ROE and Tobin-Q. In different areas, this study adds to the literature on CG. Firstly, the conclusions of the study have significant policy implications as Jordanian banks should increasingly adopt good governance procedures to reduce agency issues and improve performance. Secondly, it enhances the understanding of CEO compensation incentives in Jordan's banking sector from the perspective of CG principles embraced in Jordan, an aspect that has received less attention compared to non-financial sectors elsewhere. Thirdly, unlike other research, this study specifically addresses the endogeneity issues arising from the relationship between CEO compensation and business performance to obtain accurate inferences, thereby contributing to methodological improvement in the developing country. Unquestionably, the current study's findings hold substantial importance for regulators, listed bank management, academic researchers, and corporate owners in the ASE market. To ensure continuous improvement in bank performance, it is recommended, among other things, that banks enhance CEO compensation and prioritize performance as the basis for higher remuneration. In brief, this study possesses notable limitations, such as a limited number of observations due to the small count of listed banks, which should be considered in subsequent investigations, including expanding this empirical work to other MENA countries. Furthermore, employing this paradigm in cross-country contexts, especially in underdeveloped nations, could yield novel insights.

AUTHOR CONTRIBUTIONS

Conceptualization: Marwan Mansour, Mo'taz Al Zobi, Ahmad Marei. Data curation: Marwan Mansour, Mo'taz Al Zobi, Mohammed Saram. Formal analysis: Marwan Mansour, Mo'taz Al Zobi. Funding acquisition: Mohammed Saram, Luay Daoud, Ahmad Marei. Investigation: Marwan Mansour, Mo'taz Al Zobi. Methodology: Marwan Mansour, Mo'taz Al Zobi. Project administration: Mohammed Saram, Luay Daoud, Ahmad Marei. Resources: Marwan Mansour, Mo'taz Al Zobi, Ahmad Marei. Software: Marwan Mansour, Mo'taz Al Zobi, Ahmad Marei. Software: Marwan Mansour, Mo'taz Al Zobi. Supervision: Mohammed Saram. Validation: Luay Daoud. Writing – original draft: Marwan Mansour, Mo'taz Al Zobi, Mohammed Saram, Luay Daoud, Ahmad Marei. Writing – reviewing & editing: Marwan Mansour, Mo'taz Al Zobi.

REFERENCES

- Abdalkrim, G. (2019). Chief executive officer compensation, corporate governance and performance: evidence from KSA firms. Corporate Governance: The International Journal of Business in Society, 19(6), 1216-1235. https:// doi.org/10.1108/CG-09-2017-0228
- 2. Ahamed, F. (2022). CEO compensation and performance of banks. *European Journal* of Business and Management

Research, *7*(1), 100-103. https://doi. org/10.24018/ejbmr.2022.7.1.1234

- Al Farooque, O., Buachoom, W., & Hoang, N. (2019). Interactive effects of executive compensation, firm performance and corporate governance: Evidence from an Asian market. Asia Pacific Journal of Management, 36, 1111-1164. https://doi.org/10.1007/s10490-018-09640-2
- 4. Al-Dhaimesh, O. H. (2019). The effect of sustainability accounting

disclosures on financial performance: An empirical study on the Jordanian banking sector. *Banks and Bank Systems*, *14*(2), 1. https://doi.org/10.21511/ bbs.14(2).2019.01

 Alodat, A. Y., Al Amosh, H., Khatib, S. F., & Mansour, M. (2023a). Audit committee chair effectiveness and firm performance: The mediating role of sustainability disclosure. Cogent Business & Management, 10(1), 2181156. https://doi.org/10.1080/2 3311975.2023.2181156

- Alodat, A. Y., Salleh, Z., Hashim, H. A., & Sulong, F. (2022). Corporate governance and firm performance: Empirical evidence from Jordan. *Journal of Financial Reporting and Accounting*, 20(5), 866-896. https://doi.org/10.1108/ JFRA-12-2020-0361
- Alodat, A. Y., Salleh, Z., Nobanee, H., & Hashim, H. A. (2023b). Board gender diversity and firm performance: The mediating role of sustainability disclosure. *Corporate Social Responsibility* and Environmental Management, 30(4), 2053-2065. https://doi. org/10.1002/csr.2473
- Alves, P., Couto, E. B., & Francisco, P. M. (2016). Executive pay and performance in Portuguese listed companies. *Research in International Business and Finance*, 37, 184-195. https://doi. org/10.1016/j.ribaf.2015.11.006
- Aslam, E., Haron, R., & Tahir, M. N. (2019). How director remuneration impacts firm performance: An empirical analysis of executive director remuneration in Pakistan. *Borsa Istanbul Review*, 19(2), 186-196. https://doi.org/10.1016/j. bir.2019.01.003
- Barde, I. M., Kantudu, A. S., Dandago, K. I., Jalingo, U. A., Zik-Rullahi, A. A., Yusuf, A., Maigoshi, Z. S., Gololo, I. A., & Suleiman, B. A. (2023). Executive Compensation and Value of Listed Deposit Money Banks in Nigeria. *FUDMA Journal of Accounting and Finance Research [FUJAFR]*, 1(1), 188-208. https://doi.org/10.33003/ fujafr-2023.v1i1.16.188-208
- Basu, S., Hwang, L.-S., Mitsudome, T., & Weintrop, J. (2007). Corporate governance, top executive compensation and firm performance in Japan. *Pacific-Basin Finance Journal*, *15*(1), 56-79. https://doi.org/10.1016/j. pacfin.2006.05.002
- Bhuyan, R., Butchey, D., Haar, J., & Talukdar, B. (2022). CEO compensation and firm performance in the insurance industry. *Managerial Finance*,

48(7), 1086-1115. https://doi. org/10.1108/MF-04-2019-0154

- Chen, C., & Hassan, A. (2022). Management gender diversity, executives compensation and firm performance. *International Journal of Accounting & Information Management, 30*(1), 115-142. https://doi.org/10.1108/ IJAIM-05-2021-0109
- Cui, X., Xu, L., Zhang, H., & Zhang, Y. (2021). Executive compensation and firm performance: Evidence from cross-listed AH-share firms. *International Journal of Finance & Economics*, 26(1), 88-102. https:// doi.org/10.1002/ijfe.1778
- Dai, H., Xing, L., & Khan, Y. A. (2023). Export diversification, CEO compensation and CEO payperformance sensitivity: lesson from China. *Current Psychology*, 1-16. https://doi.org/10.1007/ s12144-023-04987-2
- Demirer, I., & Yuan, J. J. (2013). Executive compensation structure and firm performance in the US restaurant industry: An agency theory approach. *Journal of Foodservice Business Research*, *16*(5), 421-438. https://doi.org/10.1 080/15378020.2013.850374
- Deysel, B., & Kruger, J. (2015). The relationship between South African CEO compensation and company performance in the banking industry. *Southern African Business Review*, 19(1), 137-169. Retrieved from https:// www.ajol.info/index.php/sabr/ article/view/116955
- Dias, A., Vieira, V., & Figlioli, B. (2020). Tracing the links between executive compensation structure and firm performance: evidence from the Brazilian market. *Corporate Governance: The International Journal of Business in Society*, 20(7), 1393-1408. https:// doi.org/10.1108/CG-05-2020-0199
- Farooq, M., Khan, M. I., & Noor, A. (2023). Do financial constraints moderate the relationship between CEO compensation and firm performance: an emerging market evidence. *Managerial Finance*, 49(8), 1355-1376. https://doi. org/10.1108/MF-10-2022-0474

- Flabbi, L., Macis, M., Moro, A., & Schivardi, F. (2019). Do female executives make a difference? The impact of female leadership on gender gaps and firm performance. *The Economic Journal*, *129*(622), 2390-2423. https://doi. org/10.1093/ej/uez012
- Han, S., & Mun, H. (2023). An investigation into outside directors, managerial compensation, and firm performance in the Korean insurance industry. *Managerial Finance, ahead-of-print* (aheadof-print.). https://doi.org/10.1108/ MF-11-2022-0540
- Harymawan, I., Agustia, D., Nasih, M., Inayati, A., & Nowland, J. (2020). Remuneration committees, executive remuneration, and firm performance in Indonesia. *Heliyon*, 6(2). https://doi.org/10.1016/j. heliyon.2020.e03452
- Ibrahim, A. U., & Maitala, F. (2023). Effect of Executive Compensation on Financial Performance of Listed Non-Financial Firms in Nigeria. *International Journal of Professional Business Review*, 8(5), e01570-e01570. https:// doi.org/10.26668/businessreview/2023.v8i5.1570
- 24. Kayani, U. N., & Gan, C. (2022). Executive compensation and firm performance relationship. *Review of Pacific Basin Financial Markets and Policies*, 25(01), 2250008. https://doi.org/10.1142/ S0219091522500084
- Khaled, M. H. B. (2020). The relationship between CEO compensation and financial performance in Jordanian public shareholding industrial companies. *Investment Management & Financial Innovations*, *17*(2), 240. https://doi.org/10.21511/ imfi.17(2).2020.19
- 26. Mansour, M., Aishah Hashim, H., Salleh, Z., Al-ahdal, W. M., Almaqtari, F. A., & Abdulsalam Qamhan, M. (2022a). Governance practices and corporate performance: Assessing the competence of principal-based

guidelines. Cogent Business & Management, 9(1), 2105570. https://doi.org/10.1080/23311975. 2022.2105570

- Mansour, M., Al Amosh, H., Alodat, A. Y., Khatib, S. F., & Saleh, M. W. (2022b). The Relationship between Corporate Governance Quality and Firm Performance: The Moderating Role of Capital Structure. *Sustainability*, 14(17), 10525. https://doi.org/10.3390/ su141710525
- Mansour, M., Al Zobi, M. t., Kamel, Al-Naimi, A., & Daoud, L. (2023). The connection between capital structure and performance: does firm size matter? *Investment Management* and Financial Innovations, 20(1), 195-206. https://doi.org/10.21511/ imfi.20(1).2023.17
- 29. Olaniyi, C. (2019). Asymmetric information phenomenon in the link between CEO pay and firm performance: An innovative approach. *Journal of Economic Studies*, 46(2), 306-323. https://doi. org/10.1108/JES-11-2017-0319
- Ozkan, N. (2011). CEO compensation and firm performance: An empirical investigation of UK panel data. *European Financial Management*, 17(2), 260-285. https://doi.org/10.1111/j.1468-036X.2009.00511.x
- Raithatha, M., & Komera, S. (2016). Executive compensation and firm performance: Evidence from Indian firms. *IIMB Management Review*, 28(3), 160-169. https://doi.org/10.1016/j. iimb.2016.07.002
- Rasoava, R. (2019). Executive compensation and firm performance: a non-linear relationship. *Problems and Perspectives in Management*, 17(2), 1-17. http://dx.doi.org/10.21511/ ppm.17(2).2019.01
- Sajnóg, A., & Rogozińska-Pawełczyk, A. (2022). Executive compensation and the financial performance of Polish listed companies from the corporate governance perspective. *Equilibrium. Quarterly Journal* of Economics and Economic

Policy, *17*(2), 459-480. https://doi. org/10.24136/eq.2022.016

- 34. Saleh, M. W., Eleyan, D., & Maigoshi, Z. S. (2022). Moderating effect of CEO power on institutional ownership and performance. *EuroMed Journal of Business, ahead-of-print*, aheadof-print. https://doi.org/10.1108/ EMJB-12-2021-0193
- 35. Saleh, M. W., Zaid, M. A., Shurafa, R., Maigoshi, Z. S., Mansour, M., & Zaid, A. (2021). Does board gender enhance Palestinian firm performance? The moderating role of corporate social responsibility. *Corporate Governance: The International Journal of Business in Society, 21*(4), 685-701. https://doi.org/10.1108/ CG-08-2020-0325
- Sarhan, A. A., Ntim, C. G., & Al-Najjar, B. (2019). Board diversity, corporate governance, corporate performance, and executive pay. *International Journal of Finance & Economics*, 24(2), 761-786. https:// doi.org/10.1002/ijfe.1690
- Shatnawi, S., Marei, A., Daoud, L., Alkhodary, D., & Shehadeh, M. (2022). Effectiveness of the board of directors' performance in Jordan: The moderating effect of enterprise risk management. *International Journal of Data* and Network Science, 6(3), 823-836. https://doi.org/10.5267/j. ijdns.2022.2.013
- Sheikh, M. F., Shah, S. Z. A., & Akbar, S. (2018). Firm performance, corporate governance and executive compensation in Pakistan. *Applied economics*, 50(18), 2012-2027. https://doi.org/10.1080/00036846. 2017.1386277
- Swagerman, D., & Terpstra, E. (2007). Executive compensation in the Netherlands. *Problems* and Perspectives in Management, 5(3-1), 181-197. Retrieved from https://www.businessperspectives.org/images/pdf/applications/ publishing/templates/article/assets/1853/PPM_EN_2007_03cont_ Swagerman.pdf
- 40. Wang, C., Zhang, S., Ullah, S., Ullah, R., & Ullah, F. (2021). Executive compensation and

corporate performance of energy companies around the world. *Energy Strategy Reviews, 38,* 100749. https://doi.org/10.1016/j. esr.2021.100749

41. Zoghlami, F. (2021). Does CEO compensation matter in boosting firm performance? Evidence from listed French firms. *Managerial and Decision Economics*, *42*(1), 143-155. https://doi.org/10.1002/ mde.3219