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Master/Phd Theses Prepared About Financial Statement Fraud And Fraud Audit: Academic Literature Between 2008 And 2018 In Turkey*

Seval SELİMOĞLU**

Mehtap ALTUNEL***

ABSTRACT

Along with accounting scandals in the past, fraud has become the most important issue for academics, researchers and legislators. The purpose of this study is examined master and PhD theses about financial statements fraud and fraud auditing published between the years 2008-2018 in Turkey. For this purpose, a total of 65 master and PhD thesis have been examined and presented as financial statement fraud and fraud auditing. The theses examined in the study are summarized as year they were published, the author, the scope of the topic and in terms of results. The conclusions of this study can be summarized as follows: a) We reached to focus on forensic accounting and forensic accounting professional in master and PhD theses prepared in Turkey. Issues such as error, fraud, fraud auditing, forensic accounting, forensic accounting profession, forensic accounting regulations are examine dextensively. b) Some subjects (such as data mining techniques in fraud detection) have been studied very little, while there has been no work some sub-titles (other models apart from Beneish model, artificial neural networks etc.). c) Although the scope of the study has been in the last ten years, it has been determined that thesis studies on the subject have been prepared in 2013 and beyond. We suggest that extending the scope of the study and making it comparable with the studies in abroad.

Keywords: Fault and fraud audit, abuse, creative accounting, forensic accounting

Jel Classification: M41, M42.

Finansal Tablo Hileleri Ve Hile Denetimi Konusunda Türkiye’de Hazırlanmış Yüksek Lisans/ Doktora Tezleri Kapsamında Akademik Literatür Taraması: 2008-2018

ÖZET

Geçmişte yaşanan muhasebe skandalları ile birlikte hile konusu akademisyenler, araştırmacılar ve kanun koyucular açısından en önemli konu haline gelmiştir. Bu çalışmanın amacı Türkiye’de 2008-2018 yılları arasında finansal tablo hileleri ve hile denetimi konularında yayınlanan yüksek lisans ve doktora tezlerinin finansal tablo hileleri ve hile denetimi konularının ne ölçüde incelendiğinin saptanmasıdır. Bu amaçla toplamda 65 yüksek lisans ve doktora tezi incelenerek finansal tablo hilesi ve hile denetimi şeklinde ikiye ayrılarak sunulmuştur. Çalışmada incelenen tezler yayınlandığı yıl, yazar, konu kapsamı ve sonuç bakımından tablolar halinde özetlenmiştir. Çalışmamızda ulaşılan sonuçlar şöyle sıralanabilir: a) İnceleme yapılan dönemde Türkiye’de yüksek lisans ve doktora tezlerinin finansal tablo hilesi ve hile denetimi kapsamında adli muhasebe ve adli muhasebecilik mesleğine yönelik kavramları açıklamaya odaklanıldığı görülmektedir. Hata, hile, hile denetimi, yaratıcı muhasebe, adli muhasebe, adli muhasebecilik mesleği, adli muhasebeye ilişkin düzenlemeler gibi konular yoğun şekilde incelenmiştir. b) Bazı konular (hile tespitinde veri madencilik teknikleri gibi) çok az incelenmiş, bazı alt başlıklarda (yaratıcı muhasebenin ortaya çıkarılmasında Beneish modeli hariç diğer modeller, yapay sinir ağları gibi) ise hiç bir çalışmaya rastlanılmamıştır. c) Çalışmanın kapsamı, son on yılı kapsamına karşı özellikle konuya ilişkin tez çalışmalarının 2013 yılı ve sonrasında hazırlandığı tespit edilmiştir. Çalışmanın kapsamının genişletilerek yapılması ve yurtdışı çalışmalar ile karşılaştırmalı şekilde yapılması yararlı olacağı düşünülmektedir.

Anahtar Kelimeler: Hata ve hile denetimi, suiistimal, yaratıcı muhasebe, adli muhasebe

JEL Sınıflandırması: M41, M42.

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** Prof., Anadolu University, Faculty of Economics and Administrative Sciences, Turkey, sselimoglu@anadolu.edu.tr, ORCID ID: 0000-0003-1185-9980

*** Anadolu University, Institute of Social Sciences, Turkey, altunelmehtap@hotmail.com, ORCID ID: 0000-0003-3149-7753.

1. INTRODUCTION

Importance of audit have increased both with in accounting scandal in ABD (Enron, WorldCom, Xerox, Global Crossing etc.) and Europe (Parmalat, Tyco, Flowtextetc.) The underlying reason of all these scandals is the fact that fraud carried out by enterprises and not fulfilled duties in audit firm properly and honestly(Dinç & Atabay, 2018: 102).

Currently, one of most important problem facing in business environment is fault and fraud. The situations is not only a favorable situation for enterprises but also a factor affecting the decision making process among third parties. ACFE (Association of Certified Fraud Examiners) defined as occupational fraud “The use of one’soccupation for personal enrichment through the deliberate misuse or misapplication of the employing organization’s resources or assets.”(ACFE, 2008: 6).Fault occurs when an economic event, amount or disclosures is not included in financial statement or is result of inclusion of incorrect transaction and amount in the financial statement(Taştan, 2018: 163). The difference between fault and fraud is as to whether transaction have intentional or not. Considering the responsibilities of enterprises towards third parties, it is important to prevent and detect the fraud. In this context, it is important to carry out fraud audit in enterprises. When we interview fraud audit, Emir (2008) found that enterprises included people; enterprises comprise of economy and market. For this reason, it has been started that focal point of fraud audit is human. So, it is important that enterprises should perform fraud audit and carry out legal sanctions by revealing the fraud.

Study involves methodology, finding and conclusion. Study emerged from question of “What direction is master and PhD theses published in Turkey between years of 2008-2018 ?”. For this purpose, master and PhD theses published within the scope of financial statement fraud and fraud audit in Turkey between years of 2008-2018 were examined. We is intended to shed light for future studies with this study.) We reached to focus on forensic accounting and forensic accounting professional in master and PhD theses prepared in Turkey. Issues such as fault, fraud, fraud auditing, forensic accounting, forensic accounting profession, forensic accounting regulations are examined extensively. Some subjects (such as data mining techniques in fraud detection) have been studied very little, while there has been no work some sub-titles (other models apart from Beneish model, artificial neural networks etc.). Although the scope of the study has been in the last ten years, it has been determined that thesis studies on the subject have been prepared in 2013 and beyond. We suggest that extending the scope of the study and making it comparable with the studies in abroad.

2. METHODOLOGY

The research emerged from question “What direction is master and PhD theses published in Turkey between years of 2008-2018?”. The research is a content analysis and the data on the subject is provided via internet. The sources discussed in this study are examined and form a frame by taking in account several keywords. The keywords are “fault and fraud audit”, “abuse”, “creative accounting” and “forensic accounting”. In this respect master and PhD theses published between years of 2008-2018 is reached from YÖK National Thesis Center and listed in terms of key words. The sources obtained as a result of this research is summarized and presented as tables in terms of subject scope and result.

The main limit of study, our research was conducted in framework of some keywords which is fault and fraud audit, abuse, creative accounting and forensic accounting. Therefore, there is a possibility that there are studies that are indirectly related and are not included in the our research content. Another limitation of our research covers the last ten years.

In the study, the distribution of the master's and doctoral theses according to years is shown in the figure below.

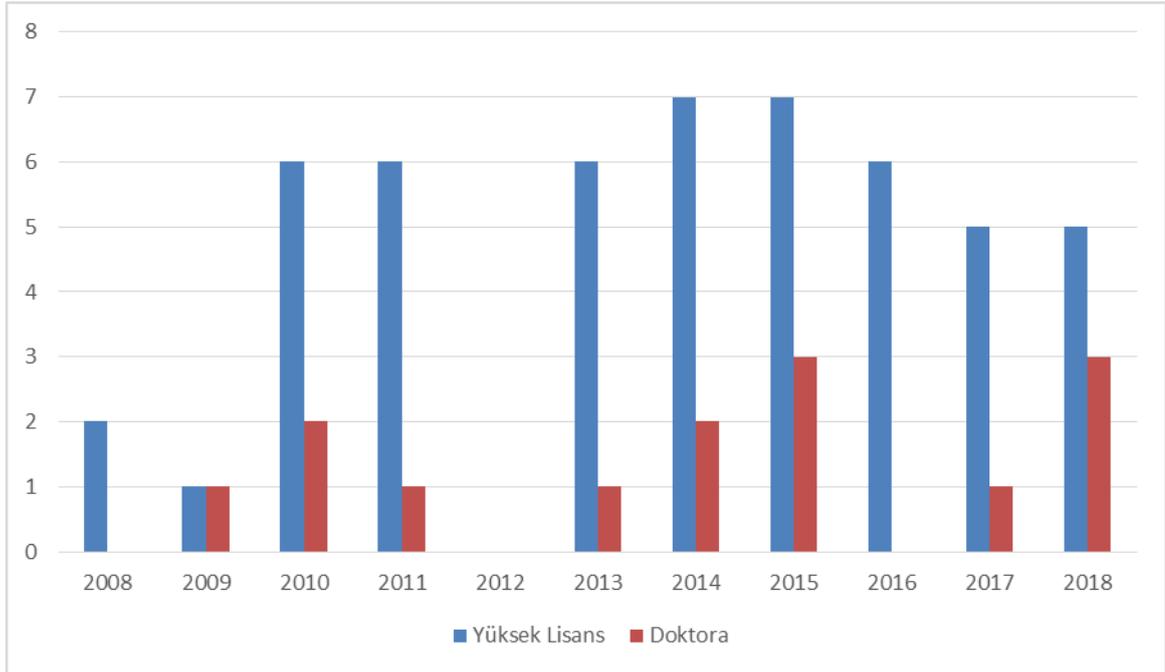


Figure 1. Distribution Of Theses By Years

3. FINDINGS

3.1. Financial Statement Frauds

The dictionary is literally defined as “play made in order to cheating and deception someone and adding something worthless to something worthwhile in order to provide benefit”(http://www.tdk.gov.tr). CPB (Turkish Capital Markets Board) is defined as it is conduct of deception-related behavior in order to provide an unfairly or illegal benefit to business administration,manager or third parties (SPK, 2006) .

Unusual arrangements, masking, fraud etc. In the financial statements of a enterprises have serious implications for significant parties on the contrary to small parties. In this case, at the micro level; while investors, lenders/banking, employees, sellers are harmed, state and public are harmed at the macro level.

Catikkas(2011) has collected six categories of fraudulent accounting arrangements that impair financial statement of enterprises and cause various damages. These are:

- To record as income to transaction that will generate income in future.
- Creating false revenue items.

- Increase revenue with are off earnings operations
- Transfer current period expenses to the following periods.
- Transfer of current period income to following periods.
- To save the expenses of future as expenses in the current period.

There are three elements that cause fraud. These are pressure, opportunities and rationalizations. These three elements were first referred to as “fraud triangle” in Cressay Donald’s research hypothesis in 1950’s. Then in 2004 fraud diamond is found by David Wolfe and Dana Hermanson. Fraud diamond is referred to as fraud file by Mengi (2012). In addition to the three elements mentioned above, it is necessary to have the personal ability to fraud. Therefore, in addition to the three elements, “capability” was added(Wolfe & Hermanson , 2004: 39).

When we review thefrauds which are the most exposed business; as results of the study titled “Crime and Fraud in Global Economy” executed by PWC, the most common fraud against sectors were evaluated in five categories. These are misappropriation of assets, misconduct in business, cybercrime bribery and corruption and consumers fraud. However according to result of study conducted by PWC was frequently reported misappropriation of assets, consumer fraud and cybercrime(PWC, 2018:8). According to “The Global Study on Occupational Fraud on Abuse” published by ACFE, common frauds are classified into three groups. These are misappropriation of asset, corruption and financial statements fraud(ACFE, 2018).

Following the brief explanation about financial statements fraud in above, master theses published in this subject are summarized in terms of scope and result in Table 1 and Ph.D theses are summarized in Table 2.

Table 1.Master Theses Reviewed in Framework Of Financial Statement Fraud

AUTHOR/YEAR	TITLE	SCOPE	CONCLUSION
SelinDurmuş The Izmir University Of Economics (Master) 2008	Is Tranparency A Sign Of Fraud Risk?	Information on transparency is given. Degree of transparency in Turkey were examined and samples from the surveys in the PWC audit institution where she works has been presented	In the conclusion, policies have been proposed to determine how make the most effective internal audit and to prevent misconduct.
İlkerDurkaya İstanbul University (Master) 2008	Internal Audit’s Role On Defying Frauds In The Turkish Banking System	Internal audit’s activities against abuses in the Turkish banking system and in order to increase the effectiveness of combating abuses, arrangements that will be useful are discussed.	While the prevention of abuses is one of the main tasks of internal auditors, it is concluded that it cannot be prevented only by internal audit activities.
İbrahim Şişaneci Gebze High Technology University (Master) 2009	Abuse Detection With Data Mining In Healthcare System	Within the scope of the study, it has been investigated whether the fraud detection problem will be determined automatically in the performance-based supplementary payments system.	As results of the study, it is concluded that even the abuses that can not be considered can be detected and with the help of the computer will reduce the financial losses.
CüneytAşuk Marmara University (Master) 2010	A Data-Mining Based Fraud Detection System For Health Insurance Companies	Fraud detection based a data mining system was developed by establishing a database for health insurance companies.	It is concluded that abuse detection based a data mining system with experimental study were effective when applied on suspicious records.

BarışYaşamYağbasan Selçuk University (Master) 2010	Fraudulent Accounting And Financial Reporting Tool As A Creative Practice	In study, he questionnaires were conducted to determine the risk indicators of fraud about financial statements, creative accounting and on employees of the credit allocation department in Alternatifbank A.Ş	It is concluded that the most important indicator that will cause the risk of fraud for a company is the effect of management on the internal or external environment.
NuriAvşarlıgil SüleymanDemirel University (Master) 2010	Creative Accounting Practice Techniques In Manipulation Of The Financial Statements And An Application With Beneish Model	It has been tried to obtain information about whether the firms traded on the ISE apply to the manipulation of financial information under the Beneish Model.	With the analysis conducted with the Beneish model, the results of the study conducted on 20 textile enterprises which are traded on the ISE is determined applied to financial information manipulation through creative accounting applications in 19 enterprises.
ShahmarHuseynov Marmara University (Master) 2010	Creative Accounting And Fraud	General information about creative accounting was given and public enterprises between years of 2005-2009 were analyzed with Beneish model.	When the data of 166 enterprises between years of 2005-2009 were compared, the results were found to be in violation of IFRS.
ÖznurÇorbacıDoğan Gaziosmanpaşa University (Master) 2011	Creative Accounting And An Application On Companies Listed In ISE	Creative accounting concept and its relation with independent audit are examined. In addition, the creative accounting practices of the enterprises traded on the ISE were estimated between years of 2007-2008 by the Beneish Model.	It was concluded that the model was feasible as 55% of the companies that applied to creative accounting in 2007 and 63% in 2008 were correctly estimated.
Mehmet ŞakirEres Marmara University (Master) 2013	Creating Of Fraud Procedure To Control The Fraud Risks Faced In Insurance Companies	The risks of abuse and abuse, fraud prevention procedures were examined and surveys were conducted on six insurance companies.	The internal control system and internal audit should be effective for the prevention of abuse. In addition, it was concluded that prevention procedures should be developed in order to prevent external abuse.
İzzetAkgün Niğde University (Master) 2014	The Reasons Of Revealing Of Creative Accountancy And Its Affects To The Financial Reporting: An Investigation Aimed At Career Members In Adana And Kayseri	Within the scope of the study, accounting error, fraud, effects of creative accounting on financial reports were examined and questionnaire study were conducted in order to determine the level of creative accounting knowledge of 120 professional accountants.	As results of the study, it was found that just over half of the accounting professionals had sufficient knowledge about creative accounting. Majority of them applied to show good business situation and pay less tax.
EmreKesici İstanbul University (Master) 2014	Insider Trading, Measures Of Insider Trading And Effectiveness Of Measures	First, information was given about the abuse of information. Then, the practices about abuse of information in the world are mentioned. In order to determine the effectiveness of the Automatic Order Stopping System used in Borsa İstanbul, the audit and supervision work was carried out.	As a result of the study, it was determined that automatic order stopping system is generally effective. In addition, the CMB and Borsa İstanbul listed recommendations for combating information crime.
ZübeydeGünay Beykent University (Master) 2014	Precautions To Prevent The Fraud Of Staff And Clients In The Internal Control System Of A Bank	In order to provide an effective internal control system in the banks, the concept of internal control, its importance and developments related to internal control in banks, fraud methods, internal warning systems were discussed. The theoretical part was supported by case studies.	In particular, summary information was provided by focusing on abuse of customer and personnel. In addition, it is emphasized in the conclusion that there is an internal control system for the managers to reach the targets in banks.

CihangirKaval Marmara University (Master) 2015	Crimes Of Market Fraud And Information Abuse Within The Capital Market Law No. 6362	General information on Capital Market and information crime is presented. In the last section, the CMB was provided information on criminal complaints, the number of cases, information on the provisions and issues of the cases which was compared with the US.	It was found that there were serious abuses and difficulties before the entry into force of Law No. 6362. As a result of the entry into force of this law, it was determined that there was an increase in the number of criminal complaints. Recommendations for combating crime are given.
MemduhAtan İstanbul Ticaret University (Master) 2015	Manipulation Of Financial Statements With Creative Accounting Techniques And Financial Statements Applied Sample	Study comprise of Creative accounting, creative accounting techniques, elective accounting policies.	If the firms have an independent audit committee, it is concluded that they have a great influence in order to reveal the fraud and creative accounting practices.
TuğçeBayrak İstanbul Arel University (Master) 2017	Measuring- Assessing The Fraud Risk İn Retail Market Sector And An Application	Risk management, fraud, fraud risk assessment were discussed in the retail market sector.	As a result of the study, it was found that there were not enough ethical rules in the sample business. And measures were not taken to reduce the fraud.
MamoonAlbrifkani University Of Gaziantep (Master) 2018	The Role Of External Auditing In Reducing Creative Accounting Practices	Creative accounting and external audit are discussed.	As result of the survey conducted, external audit has a reducing effect on creative accounting practices.

Table 2.Ph.D. Theses Reviewed in Framework Of Financial Statement Fraud

AUTHOR/YEAR	TITLE OF STUDY	SCOPE	CONCLUSION
EvrenDilekŞengür İstanbul University (PhD) (2010)	Occupational Fraud, Fraud Prevention, Regulations Related To Fraudulent Financial Reporting And A Survey	A detailed description about fraud has been made. A questionnaire study was conducted to determine the effectiveness level of the most common fraud and effective factors in the prevention of fraud	As results of study, by internal auditors and external auditors in companies operating in Turkey were found most frequently detected types of fraud.
İlkerKöse GebzeTeknik University (PhD) (2015)	An Interactive Machinelearning-Based Electronic Fraud And Abuse Detection System In Healthcare Insurance	The focus is on payment problems in the health sector. A machine learning-based model has been developed for the identification of abuses in the health sector.	The benefits of the model developed in conclusion are presented. Although the model was developed for the health insurance sector, it was concluded that field of other insurance would be suitable.
Selim Cengiz Kırıkkale University (PhD) (2015)	Manipulated Under The Scope Of Creative Accountancy, Obstructing The Facts In Financial Statements, And Examining The Its Effect On The Quality Of Independent Audit	General explanations about creative accounting were made. In order to test the effects of creative accounting practices on the quality of independent audit, the end of year and interim financial statements of the 60 manufacturing enterprises traded in BIST and the data in the audit reports were used.	The results of the analyzes are summarized. As results of the analysis, no significant relationship was found between creative accounting and independent audit quality.
BurcuNazlıoğlu Ankara University (PhD) (2018)	Creative Accounting And Application On Banks	Explanations on the manipulation of financial information, fraud, creative accounting and the discovery of creative accounting have been made.	The results of the analyzes conducted in banks and private financial institutions in the BIST financial sector between 2009 and 2016 found that creative accounting practices had negative effects on many aspects.

3.2. Fraud Audit

Enterprises face different risks in its operational processes. One of them is risk of fraud. Risk of fraud is classified into operational risks of enterprise. The risk of fraud is defined as the risk that enterprise face fraudulent transaction. Although it is not possible to eliminate this risk completely, it has become a necessity to develop a control mechanism for fraud in order to minimize this risk(Kayıkçıoğlu, 2017: 29).

The fraud audit is defined as planned activities performed to provide reasonable assurance and to determine whether the financial statement information includes fraud, fault and inaccuracy. It would be wrong to think that fraudulent and improper transactions are strictly fraudulent in fraud audit(Doğan & Kayakıran, 2017: 178). At this point, it is important that all transactions should be examined as suspect. Internal and independent auditors suspicions about the transactions are factor driving the fraud audit process. Considering the situation it supports the above statement. While many factors are considered in fraud audit review, there are methods used to determine whether fraudulent transactions are suspicions(Terzi, 2012: 53). These methods are listed as Benford's Law, Artificial Neural Network, Data Mining and Red Flags in literature.

Fraud and fraud audit is related to the subject of forensic accounting. According to the study conducted by Çabuk and Yücel(2012), forensic accounting is the most needed subject to detect and prevent fraud and corruption. In most of the studies, it is defined as intersection point for accounting and law. While "forensic" term refers to the size of the law, "accounting" term refers to the accounting transaction that arise result of commercial activities. Forensic accounting is defined as comprehensive. It is an understanding of a comprehensive level of knowledge of financial, legal and trade working in order to assist the decisions of judicial institutions and the use of this level of knowledge expertly(Karacan, 2012:127)

Following the brief explanation about fraud audit in above, master theses published in this subject are summarized in terms of the scope and result in Table3 and Ph.D theses are summarized in Table 4.

Table 3. Master Theses Reviewed in Framework Of Fraud Audit

AUTHOR/YEAR	TITLE OF STUDY	SCOPE	CONCLUSION
Handan VURAL Atatürk University (Master) 2010	Fighting Against Money Laundering Crime And Forensic Accountancy Profession	Dirty money, forensic accounting and accountancy profession and the fight against money laundering crime were discussed.	It is concluded that there is a required for infrastructure studies and comprehensive studies for the development of forensic accounting profession.
YunusEmre KÖSE Marmara University (Master) 2010	Corporate Governance And Its Effect on Fraud Control	Fraud, fraud prevention and fraud control, audit committee and corporate governance issues are discussed.	There is an important step to be taken in Turkish businesses regarding the structure of the board, equal partnership rights and transparency.
Berca ŞAHİN Marmara University (Master) 2011	Forensic Accounting Profession And Analysing In Terms Of The Turkish Commercial Law No.6102	Forensic accountancy and forensic accountancy profession were examined in terms of the new TCL.	It has been concluded that there are some partial items of forensic accounting in the Turkish Commercial Law No. 6102.

Yeşim SAÇAKLI AfyonKocatepe University (Master) 2011	Accounting Auditing Education And Suggestions At Universities In Turkey In Terms Of Forensic Accounting Perspective	Accounting and forensic accounting issues are included. The course programs of universities were examined during the application phase.	It is determined that only one university has a forensic accounting course. As a result of the study, it was found that the forensic accounting course was weak in the higher education institutions.
Seyhan GÖKSU Istanbul University (Master) 2011	Employee Frauds In Forensic Accounting And Analysis Of Forensic Cases In Kars	Fraud audit, forensic accounting, employee frauds are discussed. A case study was carried out in Kars province.	As a result of the study, it was determined that most of the cases in Kars were carried out in the public sector and in the form of embezzlement. In addition, the most affected institution was found to be district governorship.
Merve ALTINSOY Istanbul Ticaret University (Master) 2011	Forensic Accounting And Prosecutions In Turkey	Subjects of fault, fraud and forensic accounting are discussed.	It was concluded that the forensic accounting profession would become a demanded profession of accounting by the developed training programs.
Fahrettin PALA Istanbul Aydın University (Master) 2011	Forensic Accounting Professions and The Applicability in Turkey	Forensic accounting, forensic accounting profession, forensic accounting education issues and applicability of forensic accounting profession in Turkey were discussed. In addition, the results of the report published by the ACFE in 2010 are given.	Although forensic accounting has been developed in the western countries, it has not developed at the same level in our country. For this reason, it is concluded that educational studies related to forensic accounting.
Ahmet Kurt ÇanakkaleOnsekiz Mart University (Master) 2013	Overview Of Forensic Accounting Profession From The Perspective Of The Turkish Commercial Code No. 6102	The subjects of fault, fraud, forensic accounting, forensic accountancy profession and private auditor and independent auditor who can serve as forensic accountant in the Turkish Commercial Code No. 6102	There are regulations in the law that include many aspects of forensic accountancy. However, it was concluded that these were not sufficient for the acceptance of forensic accounting profession.
Yurdagül ÇOBAN Karadeniz Technical University (Master) 2013	Expert witnessing profession in forensic accounting: A research on members of accounting profession	Forensic accounting and expert witnessing profession issues in our country are emphasized. In application, 35 judges and the scope of CPAs are carried out survey.	It has been concluded that professional accountants do not have sufficient levels for expert witnessing but if they are given training, they can keep up with the expert witnessing system.
Yasemin ACAR UĞURLU Marmara University (Master) 2013	Applications To The Court In Forensic Accounting Profession And A Research	Fraud, cheater, forensic accounting and forensic accounting issues are theoretically stated and then a real case file has been examined.	Summary information is provided on forensic accounting and forensic accountants and it has been concluded that the problems in the institution of expertise will be prevented by forensic accounting.
Zübeyde Kaya AfyonKocatepe University (Master) 2013	The Awareness Of Forensic Accounting Concept: A Research On Accounting Professions In Turkey	The theoretical explanations of the concepts of error, fraud and forensic accounting have been made. Survey study was conducted to measure their awareness about the forensic accounting profession in Turkey.	In terms of geographical regions in Turkey have been identified differences in the forensic accountancy profession and the results are summarized.

NezriyeGözde BİRCAN Marmara University (Master) 2013	Fraud Auditing In Nonprofit Organizations	Non-profit enterprises, fraud, fraud control are handled and in the selected sample enterprise has been completed by using the interview method.	It has been found that there is no practice of fraud audit in non-profit enterprises. In addition, it is demonstrated that there is not independent audit and auditing policies in non-profit enterprises.
Murat BALCI Istanbul Culture University (Master) 2014	Forensic Accounting, Applications And Case At Nowadays	Forensic accounting, forensic accountancy and development of forensic accounting in Turkey and world have been addressed.	To prepare the necessary legal basis is suggested to ensure the development of forensic accounting in Turkey
Mehmet DEMİR Istanbul Ticaret University (Master) 2014	Using Benford's Law And Fraud Auditing In	Fraud, types of fraud, fraud prevention techniques and detailed information about Benford's Law are presented.	As a result of the study, Benford's Law helps in detecting fraudulent transactions. However, it was concluded that it only was not 100% sufficient.
Candaş AKAL Haliç University (Master) 2014	Evaluation Of Suggestions For Developing Description Of Forensic Accounting And Forensic Accounting Profession, Awareness Of Forensic In Audit Sector	Forensic accounting and forensic accounting profession and legal regulations are discussed. In the implementation phase, a total of 120 people were surveyed and study was completed.	As a result of the study, the answers of the respondents are that the forensic accounting profession will be filled with education and legal regulations for the development of the profession.
Zerrin ERDEM Istanbul Ticaret University (Master) 2014	Fraud Auditing And Internal Control Relationship	Fraud control, internal control and relationship of two issues is discussed.	As a result of the study, it was found that if the efficiency of the internal control system was ensured, the fraud would be determined and prevented.
Özcan TURGUT Erzincan University (Master) 2015	Management Fraud In Forensic Accounting And An Application	Forensic accounting, forensic accountancy, error, cheating issues were discussed. The executive frauds in the cases opened in Erzurum court were examined.	As a result of the analysis, the relationship between fraud amount and perpetrator's position, age, experience, personal incomes and amount of fraud are summarized.
İbrahim KÖKSAL Dumlupınar University (Master) 2015	Forensic Accounting In Financial Fraud Control In Digital Media: A Research On Independent Auditors	A research study was carried out on whether auditors who have the authority to publish a transparency report have an effect on the control of the fraud in the digital environment.	As a result of the study, it was determined that forensic accounting self-skills and characteristics differed partially. In addition, it was found that independent auditors did not use any forensic accounting analysis program in the financial fraud control conducted in digital environment. It has also been determined that the forensic accountancy profession literally was not developed in Turkey.
Seda DEMİR Haliç University (Master) 2015	Consideration Of Mistakes And Cheats With Regard To Forensic Accounting In Independent Audit	Detailed information about accounting fault, fraud and forensic accounting are given.	Forensic accounting professionals should be competent in many areas besides accounting. Forensic accounting profession is not very widespread in Turkey. Also, the need for forensic accounting profession is increased day by day.

Hasan BAĞIŞLAR Mediterranean University (Master) 2015	Fraud Auditing In Banking Sector: A Research On Characteristic Of Experienced Fraud Cases	In the banking sector, information on fraud audit and internal control system was given, and a survey was carried out on the banks' internal audit and internal control personnel. The qualitative properties of the fraud are tried to be determined in baking sector.	As a result of the study, the qualitative characteristics of the fraud in the banking sector are summarized.
Kadir DEVELİOĞLU Okan University (Master) 2015	Forensic Accounting and Forensic Accounting Practices	The subject of forensic accounting and forensic accounting is given. It is presented informations about application field and example given regarding this field.	Current situation of forensic accounting and forensic accounting profession in Turkey are summarized
Erkan ORHAN Trakya University (Master) 2016	Fraud Audit In Financial Corporations And A Case Study	Issues about fraud and fraud audit are addressed. In addition, there are examples of possible fraud attempts in a bank and an example scenario regarding their interpretation under fraud audit.	As in all enterprises, it was concluded that in financial intermediary institutions, the detection, reporting and investigation of accounting frauds should be carried out by trained people.
Mithat RASGEN Dokuz Eylül University (Master) 2016	An Application Related to The Use of Benford's Law in Fraud Auditing	Disclosure of fraud audit and Benford's Law are included. In the application part, the effectiveness of the Benford's Law was shown in two enterprises in accordance with the data obtained from Borsa İstanbul A.Ş.	The results of the study are summarized about the Benford's law. The results obtained from the use of the Benford law are presented in the application phase.
Ahmet ERKAN Mehmet Akif Ersoy University (Master) 2016	A Research Perspective of Lawyers Accountants Forensic Accounting Evaluation	A survey was conducted with 100 accountants and 100 lawyers in Antalya, Isparta and Burdur. opinions about forensic accounting were evaluated.	As a result of the study, accountants have a higher awareness of forensic accounting profession than lawyers.
Selin EROL İstanbul Ticaret University (Master) 2016	Proactive Approaches To Fraud Audit	Fraud, risk of fraud, management of fraud, proactive approaches to fraud audit are discussed.	It is emphasized that business management should use proactive approaches to detect fraud as soon as possible and to prevent fraud.
Nurten BAYRAK Niğde University (Master) 2016	The Profession Of Forensic Accounting And A Study To Determine Its Applicability In Turkey	There are explanations about forensic accountancy, fraud auditing, litigation support expertise and expertise to put forward the importance of forensic accounting profession.	As a result of the survey, the level of awareness of the professional accountants in the field of forensic accounting is 20% and the remaining 80% is not known.
EsseMohamud FİDO Selçuk University (Master) 2016	Fraud Auditing in Financial Statements and Auditing Techniques For The Prevention of fraud: Comparison of Turkey and EU Practices	Fraud, fraud auditing, fraud auditing techniques, effective methods for preventing fraud was explained in Turkey and EU. Then application in Turkey and EU is compared.	The effects of fraud, corruption and abuse on the economy are summarized and the elements to be considered by the institutions against fraud are listed.
Ali ÇİTE İstanbul Arel University (Master) 2017	Forensic Accounting And Independent Auditing Effect	Fault, fraud, accounting audit and forensic accounting issues are explained. In the last part, sample application is examined to explain the effect of forensic accounting on independent audit and the difference between forensic accounting and independent audit.	The difference between forensic accounting and independent audit is summarized.

Salih KAYIKÇIOĞLU Işık University (Master) 2017	Fraud Audit In Internal Audit Departments Of Companies And A Case Study	Audit, internal audit and fraud control in internal audit are discussed. In a sample enterprise, the investigation, detection and reporting of the fraud in the internal audit process has been examined and evaluated within the scope of International Internal Audit Standards.	It was concluded that the fraud was a cost-increasing element and that internal audit systems and internal control system should be established to prevent this situation.
Emel KILIÇBEY Kafkas University (Master) 2017	An Evaluation Of The Perceptions Of Accounting Professionals Toward Judicial Accounting In Terms Of Different Variables: Kars Ardahan and Iğdır Example	Forensic accounting and forensic accounting profession issues were discussed and a survey was conducted on professional accountant in Kars, Ardahan and Iğdır.	As a result of the survey study, the discovery of fraudulent transactions is in the field of judicial accounting. The importance of forensic accounting has been put forward.
Shahin ASLANZADE İstanbul Aydın University (Master) 2017	Fraud Audit In The Sales And Revenue Process	Descriptions of the revenue process and revenue process fraud were made and the wholesale sales were analyzed by obtaining information from private enterprises operating in Baku.	As a result of the study, Any irregularities were not found in customer orders, dispatch invoices and payment documents and it was determined that the lack of internal control system increased the risk of fraud.
Tuğçe İŞILDAK Balıkesir University (Master) 2018	A Study On The Importance Of The Profession Of Forensic Accounting For The Accounting Professionals In Revealing The Accounting Errors And Frauds	Fault, fraud and irregularities are mentioned. Then, forensic accounting and forensic accounting applications, techniques are discussed. Data were collected and analyzed by the questionnaire.	The results of the analysis are summarized and it is concluded that universities should include forensic accounting at the undergraduate level and studies should be carried out to increase the awareness of this profession.
ÖmerÖksüz NiğdeÖmerHalisDemir University (Master) 2018	The Impacts Of Developments In Information Technologies On Error And Fraud Inspection: A Case Study On CAP Audit Software	The concept of informatics, information technology, error, fraud concepts and the methods used in the detection of fraud are discussed. Then the features of the CAP control software are explained.	As a result of the study, the audit risk of the accounting data examined with the CAP software. was minimized. And it was saved time, staff and resources with this software.
Engin ÇAYIR Mehmet AkifErsoy University (Master) (2018)	Management Cheats in the Scope of Forensic Accounting and Forensic Case Analysis of Burdur-Isparta	Information is provided about forensic accounting, fraud control and management fraud. The data of the fraud files send to the court in Burdur and Isparta provinces were collected and analyzed by SPSS program.	According to the results obtained from the case files, it was found that the most important problem was education situation and that the individuals were not aware of the tax and criminal sanctions.
Halil ÇETİN İstanbul Aydın University (Master) 2018	Forensic Accounting, Fraud And Characteristics Of Employees Involved In Fraud	The issues of forensic accounting and employee fraud are discussed.	In order to prevent the fraud, it is concluded that it firstly is necessary to have enough information about understanding the fraud, knowing the reasons of the fraud and the characteristics of the employees who can cheat.

Table 4.Ph.D Theses Reviewed in Framework Of Fraud Audit

AUTHOR/YEAR	TITLE OF STUDY	SCOPE	CONCLUSION
Nermin AKYEL Sakarya University (PhD) 2009	Forensic Accounting and Current Situation of It'sSubstructural Components With Regard To Be Applied in Turkey, It's Evaluation and Proposals	Accounting fault and frauds, development of forensic accounting profession, working conditions, forensic accountancy activities and regulations related to the profession were examined.	In our country, it has been found that new methods should be developed in the solution of expert applications problems. Also It was concluded that the Ministry of Justice, the Ministry of Finance and academicians should be regulated for the applicability of forensic accounting.
Abdülkadir PEHLIVAN Atatürk University (PhD) 2010	Forensic Accounting Education And A Research On Development Of Forensic Accounting Education In Turkey	The subject of forensic accounting and accountancy is discussed. Survey covered academics in accounting and finance departments have been made in Turkey.	It is concluded that 47% of the academicians should cover the forensic accounting topics of accounting curriculum and 53% of them do not agree with this view.
ElifYücel Uludağ University (PhD) 2011	Forensic Accounting Profession And A Survey About It's Development Potential In Turkey	With the explanation of the concept of forensic accounting, the perspectives of the Certified Public Accountants and the Independent Auditing Agencies in the Capital Markets and the current situation of forensic accounting were analyzed by a survey.	As result of the analysis, it has been reached that the existing audit system in our country, the infrastructure required for forensic accounting and the education system are insufficient.
Ahmet ÇOŞKUN Adnan Menderes University (PhD) 2013	Awareness Of Forensic Accounting: A Research On Independent Audit Companies In Turkey	Fault and fraud, forensic accounting and forensic accounting profession were examined. In the application phase, 93 independent audit company partners were carried out questionnaire.	As a result of the study, it has been concluded that the awareness of forensic accounting is closely related with the age and duration of activity of the independent auditor.
Ahmet ÖZCAN Marmara University (PhD) 2014	The Impact Of Forensic Accounting On Investigating And Preventing The Financial Information Manipulation	In this study, using multivariate statistical models in Turkey manipulated financial statements are analyzed.	As a result of the analysis of the data obtained from the daily bulletin by CMB and Borsa Istanbul, manipulation was detected in 44 enterprises and without manipulation in 52 enterprises.
Mehmet Akif ALTINAY SüleymanDemirel University (PhD) 2014	The Analysis Of Turkish Forensic Accounting In The Context Of Judges' And Attorneys' Aspects	Explanation of forensic accounting and forensic accounting were made. A survey was conducted to measure the attitudes of lawyers and judges in commercial courts about forensic accounting services.	At the end of the research, it was understood that judges and lawyers needed external assistance to solve their accounting problems. In addition, it was found that the CPAs, which are experts, were inadequate by the judges in terms of their research, legal knowledge, communication skills and fraud information.
Arzu MERİÇ İnönü University (PhD) 2015	A Research Study on Forensic Accounting In The Context Of Expert Witness Organization in Turkey	Information on forensic accountancy and expertise has been provided and expert witness activities of forensic accountants have been examined.	At the end of the analysis, the results of the developed hypotheses are explained in detail.
Mohamed ISSA MISSA Okan University (PhD) 2017	Awareness Of Forensic Accounting Services In TURKEY And Comparison With USA	The need of forensic accounting services was mentioned in Turkey. The application in Turkey and USA is compared.	As a result of study is high awareness for the need for forensic accounting services in Turkey. But it was concluded that forensic accounting practices were insufficient.
Hami AYDIN İstanbul Aydın University (PhD) 2018	The Applications Of Forensic Accounting In The World And Its Applicability In Turkey	It is given general information about forensic accounting and it is mentioned about development of Turkey and world.	The importance and the need for forensic accounting are summarized.

Ismail KABAN Gaziosmanpaşa University (PhD) 2018	Fraud Audit In Banks: Central Audit And A Qualitative Research On The Personnel Perception	Internal audit, fraud and fraud audit and the concept of centralized audit as a new internal audit concept are discussed.	As a result of the study, the benefits of centralized audit were mentioned and it was found that the central audit had a deterrent effect on the fraud.
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4. CONCLUSION AND SUGGESTIONS

In our study is examined Master and PhD theses about financial statements fraud and fraud audit published between 2008 and 2018 in Turkey. As result of these investigations, various determinations have been achieved. According to this; studies in field of fraud audit in Turkey were particular focused subjects about forensic accounting profession since 2013 year and were measured awareness on this subject of various interested parties such as accounting professionals, internal and independent auditors an academics. When we review subject of financial statement fraud, we find that many author focused on creative accounting and abuse. If we list the fields examined in fault, fraud, fraud audit, forensic accounting, forensic accounting profession, expertise, developments and regulations regarding forensic accounting in Turkey and creative accounting. But some subject (such as data mining techniques in fraud detection have been studied very little, while there has been no work sub-titles lather models apart from Beneish model, artificial neural network etc.). Therefore, financial statements frauds and fraud audit have wide range of subject so we can say that there are many subject options for someone who want to work in this field.

We reached the total of 65 theses in the scope of the study, 14 of these are PhD theses and the rest of the theses are master theses. It emphasizes the lack of regulations in the field of forensic accounting. In addition, the studies show that the academic community is interested in this field and making an effort to develop this field. Although the scope of the ourstudy has been in the last ten years, it has been determined that the theses studies about the subject have been prepared in 2013 and beyond.It is determined that our awareness in this area is later than in the US and Europe.The most important limitation of our study is done within the framework of certain keywords.Therefore we suggest that extending the scope of the study and making it comparable with the studies in abroad.

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