

NEAR EAST UNIVERSITY



**FACULTY OF ECONOMICS AND
ADMINISTRATIVE SCIENCES**

**DEPARTMENT OF COMPUTER
INFORMATION SYSTEMS**

**2006/2007 FALL TERM
CIS 400
(GRADUATION PROJECT)**

CINEMA OTOMATION SYSTEM

Submitted To: Dept. of CIS

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**LEFKOSA
2007**



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ACKNOWLEDGMENTS

I say thanks to my department and all Teachers for giving me the programmer knowledge.

And

I say thanks to Mr. Yalçın Akçabi for his support of the data flow diagrams.

I am then very much thankful to my advisor MR. Tansel DEVİN for his advices and his ideas which are motivated me so much.

I am thankful to my parents;

I can not forget my friends here who always motivated me when ever I got disappointed in any point while making this project.

2

ABSTRACT

ABSTRACT

My desire to do the automation system is the system of cinema. I want to do this project as CIS 400 graduation project. Because I want a project which consists mainly accountancies and personal management things.

I want to do my cinema automation by using software language Delphi7 and for database Microsoft SQL Server. The aim on using Microsoft SQL Server is not to use packet program but to use software which is manuel.

3

INTRODUCTION OF SYSTEM

INTRODUCTION THE CINEMA OTOMATION SYSTEM

I want a personal search system and accountancies system which depends on personal searching system. This system can comfortably be used in a saloon which sizes 6,7 and which has got 3,4 ticket window. The saloon which has got 3,4 ticket window needs 6,7 cashier and needs other workers. Personals salaries but mostly cashier's salaries are going to be detected. In this system reservations can be reserved, tickets can be bought or cancelled.

After the rate of fullness of halls is evaluated, the ticket will be booked or cancelled. The rate to make mistake is very low for user; because (s)he can see free seats and reserved ones easily. Because every ticket-checker uses his or her own password while entering the password, it will be known which ticket checker reserved tickets; therefore, money in the case of checker and balance in system must be equal. Insufficient or sufficient balance will be recorded to the account of staff. According to the decision makes, total of insufficient balance management may or may not reduce the salary of staff. Of course, this process will be done to every checker individually. Or, again according to the decision they make, bonus can be appointed to checker who sells more than Standard. Changes in session or hall, reports will be done by the executer of this administration or owner of it. The staff only deals with the departments of purchase and cancellation of ticket and reservation.

4

DESIGN OF SYSTEM

4.1.EXPLANATION OF THE CINEMA OTOMATION SYSTEM

This system works on the cinema salon so we need a (LAN) Local Area Network also a computer.

The system is coded DELPHI 7 and database is The Microsoft SQL Server database.

PROCEDURES

1.) Ticket selling's, canceling, reservations (can be used all users)

In this part, after users are making séance searching according to date, then choose an appropriate séance from the séances at screen and armchairs of saloon which belongs to that séance will be seen. After user chooses appropriate armchairs, he/she can determine how much student and civilians are. Then , he/she decides is he/she sells or make reservation tickets which are chooser if he/she want to sell then ,he/she touchier to the “sell” button. If he/she wants to make reservation, reservation screen comes and it is written name, surname and phone number of the customer to this part and it is touched to the “reservation” button so, we finish processing of this part.

2.) Reports This part helps us to reach to various report summaries.

- Expenditure Reports (There reports are used only director).

In this part, we choose kind of reports(expense reports, payment reports) and we determine two different date and when we touch to the “show” button, the system show us the expenses which are made between these dates or payments which are made to the staff. If we touch to the “print” button, the system prints these reports.

- Employee Reports (There reports are used chef and director).

In this part, we can see information about the staff which ever staff is information we want to search, we write that staff's “employee number” and come in to the two dates system and this system shows us events between two dates. If we want, we also take it as “print”.

- Income and Expenses Reports (There reports are used only director)
 In this part, we come two dates in system and the system shows us selling, expense and total of payment which are made to the staff by making processing according to certain formats between the two dates so we can easily see profit-losing money report.
- Reports from the end of the day (There reports are used chef and director).
 In this part, we can fix is selling which cashiers are making in that day are equal with the money which are in their box at the end of the day. If we want, we can print this report.

3.) Expenditures and Payments

- Registration of expenditures.(There reports are used chef and director)
- Registration of Payment. (There reports are used chef and director)
 In expenses registration part, we can see registration of expenses which administrating is making. There are two areas in payments registration part. In first area we make salary appointment for every staff every month. In second area, we can register advance which administrating give to it's staff

4.) Enlistment of the personal (There reports are used chef and director).

In this part, we can search to the individual information's, and salary amount of the staff, and user's name and password which staff is determined. In addition there is also an area which helps to change user's name and password in the main menu.

5.) Set or defines

This part helps us to search to the definitions in the system.

- Set or define séance and cancel. (It used by chef and director).

This part helps us to fix when and where the film will start. In addition, it also helps us to cancel the séance which we defined before.

- Set or define salon. (It used by chef and director).

This part helps us to define new saloon we can see which saloon has got how much armchair.

- Set or define price. (Only it used by director).

In this part, anybody who has admin authority can easily define prices of tickets.

- Definition and record film. (It used by chef and director).

In this part, films which are ready to be shown are registered to the system.

FILES

1.) EXPENDITURES (File which expenses are registered)

2.) PAYMENTS (File which staff's salaries are defined, advances gave are registered, in addition this is a file which money which cashiers give at the end of the day are registered.)

3.) EMPLOYEE (File which staff's information are determined and defining of salaries are registered.)

4.) RESERVATION (File which reservations are registered.)

5.) SELLING (File which selling are registered.)

6.) SALON (File which salons defined are registered.)

7.) SEANS (File which séances determined according to dates are registered.)

8.) SEANS ACTION (File which helps us to reach to the new or old séances are registered.)

9.) PRICE (File which ticket prices and kind of ticket is registered.)

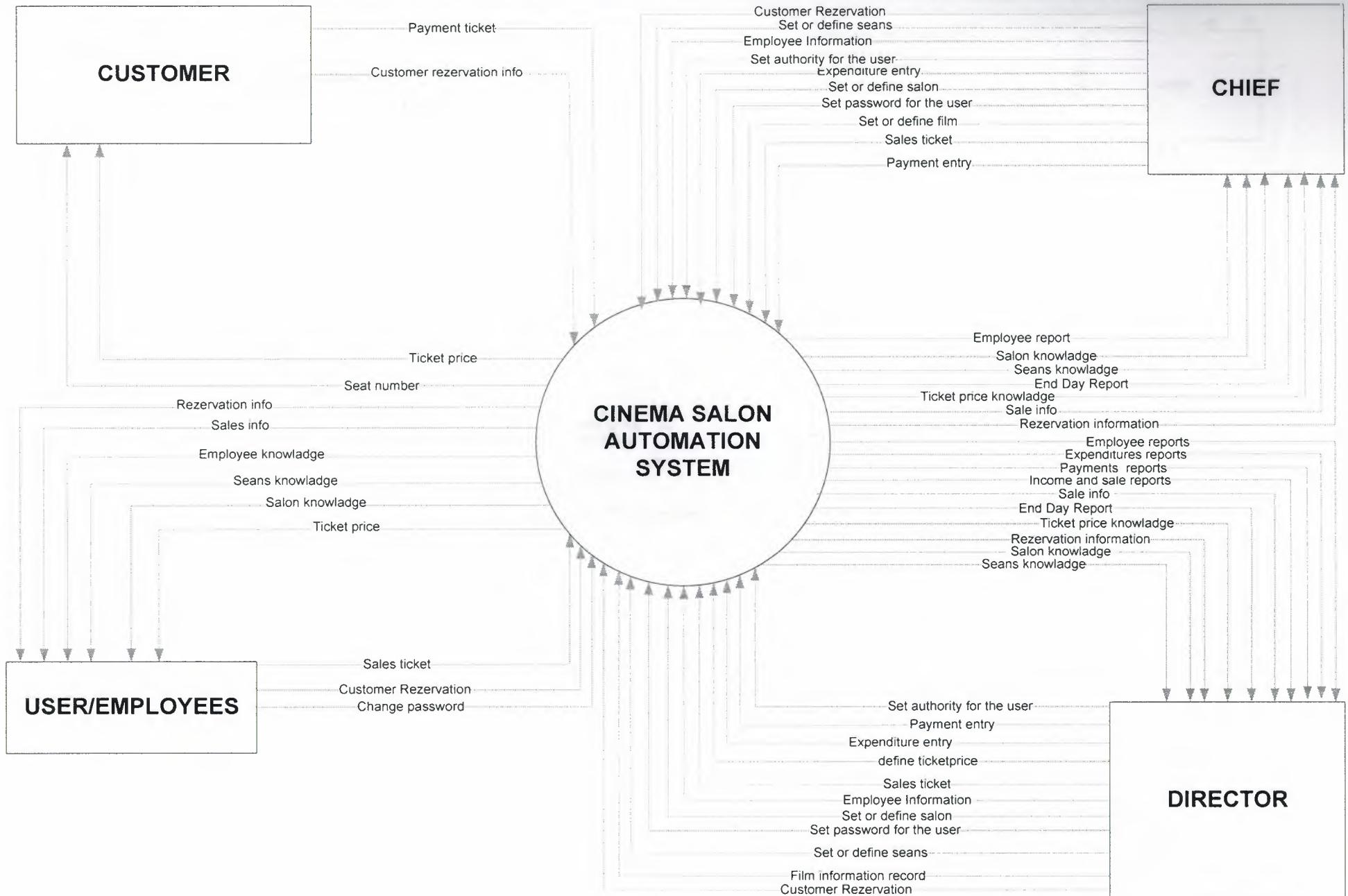
10.) FILM (File which films are ready to be shown are registered.)

EXTERNAL PROCEDURES

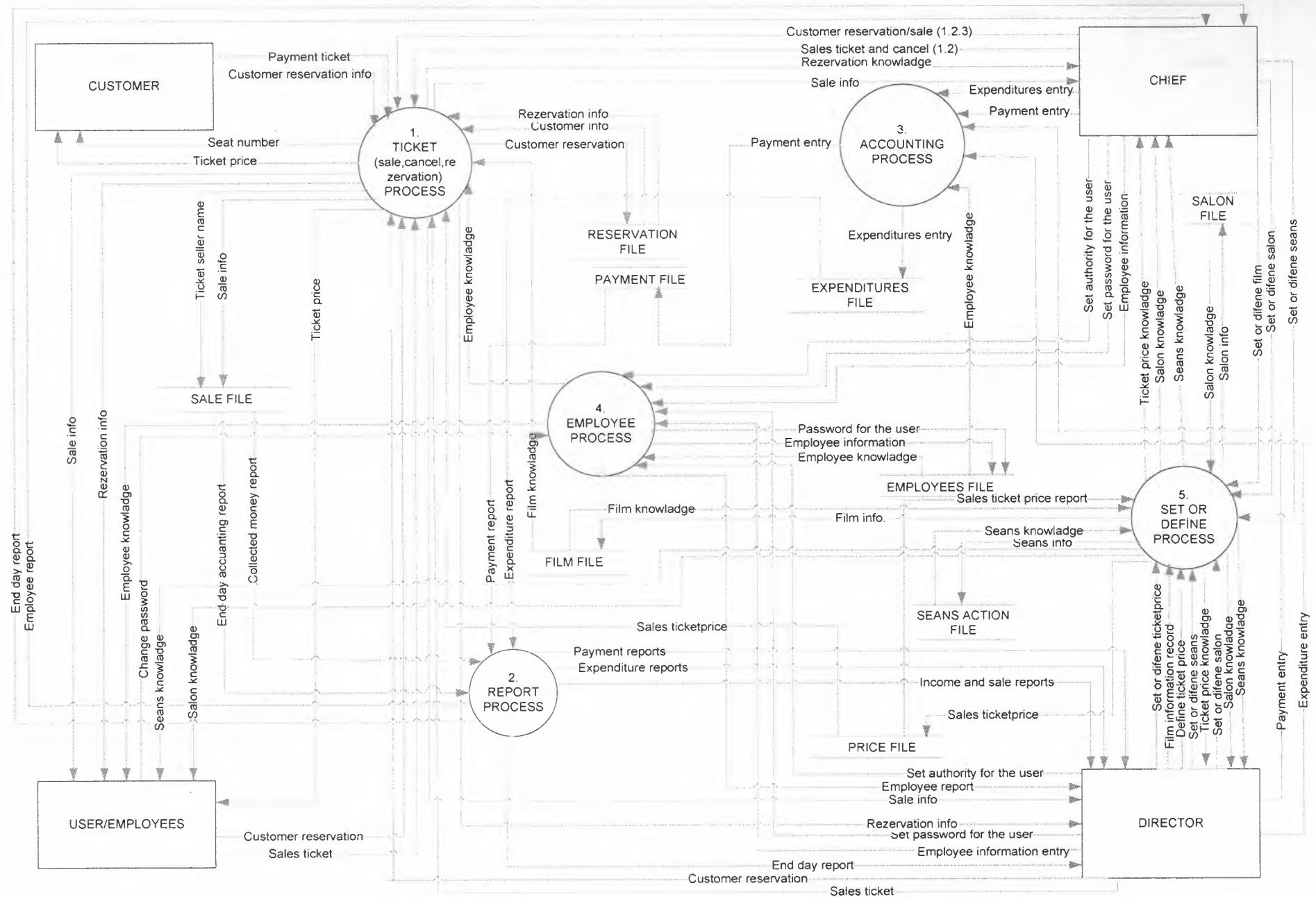
- 1.) DIRECTOR
- 2.) CHIEF
- 3.) USER/EMPLOYEE
- 4 .)CUSTOMER

4.2. DATA FLOW DIAGRAMS

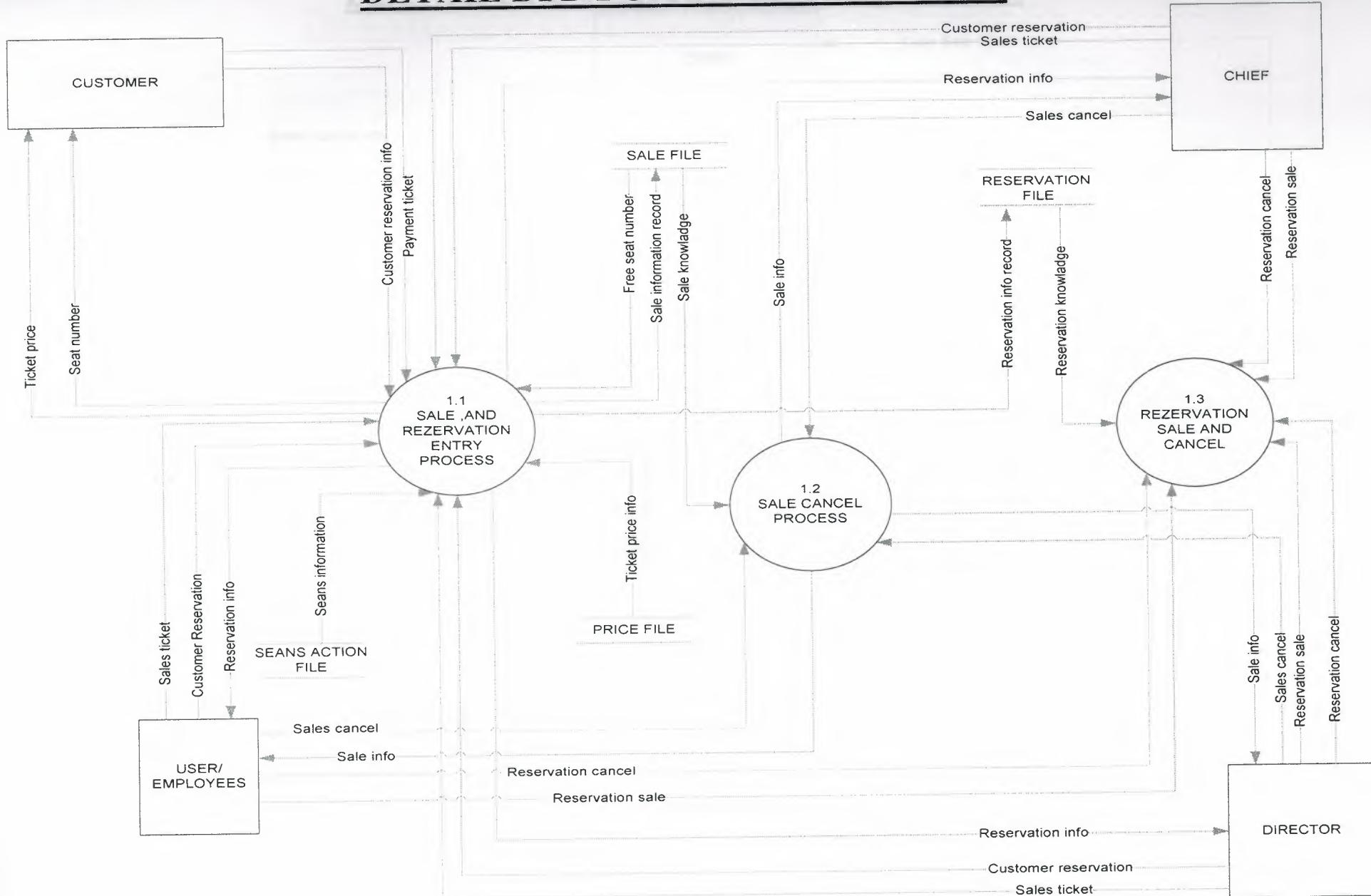
CONTEXT DIAGRAM OF CINEMA SALON AUTOMATION SYSTEM



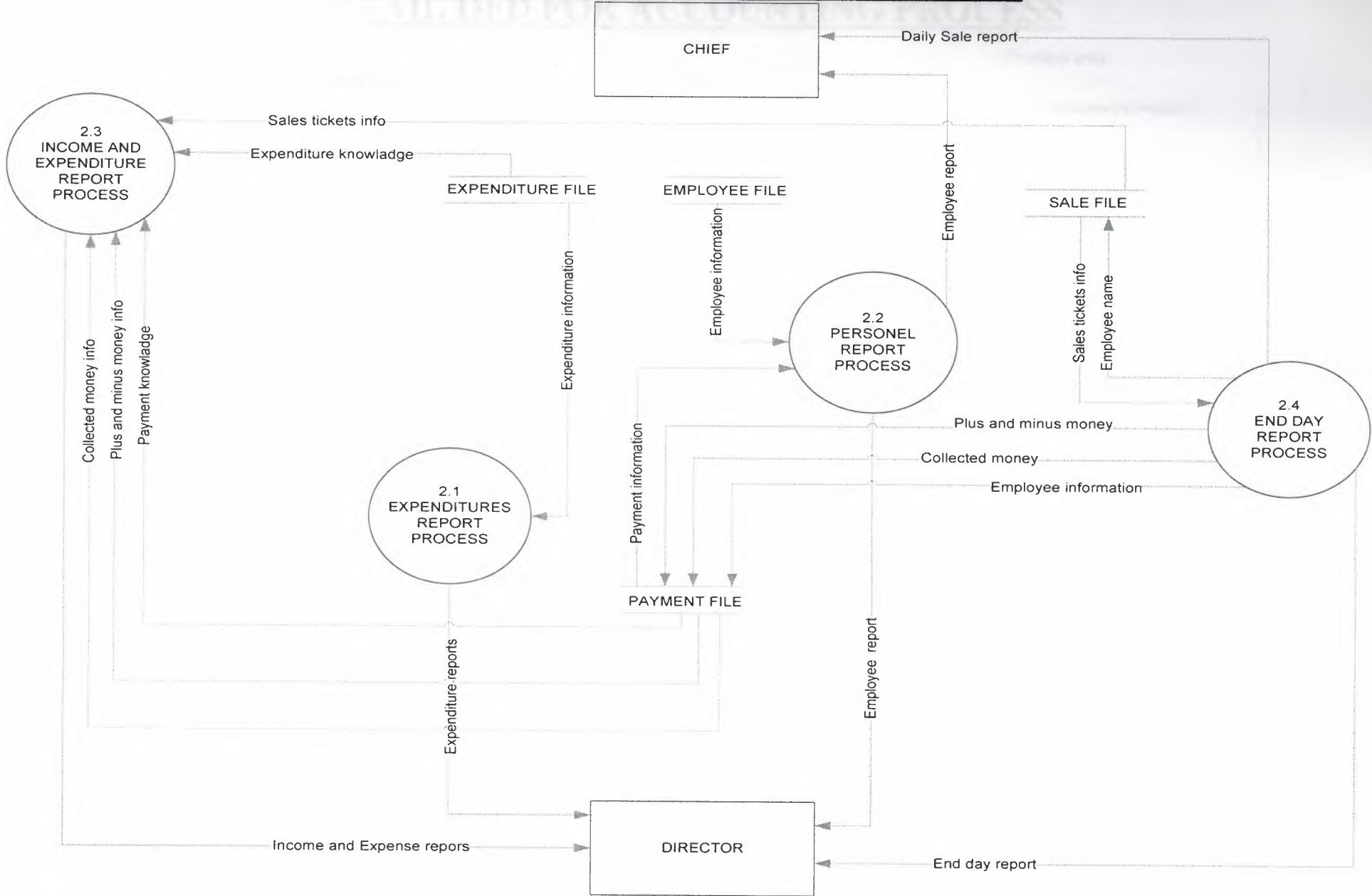
TOP LEVEL DFD FOR CINEMA SALON AUTOMATION SYSTEM



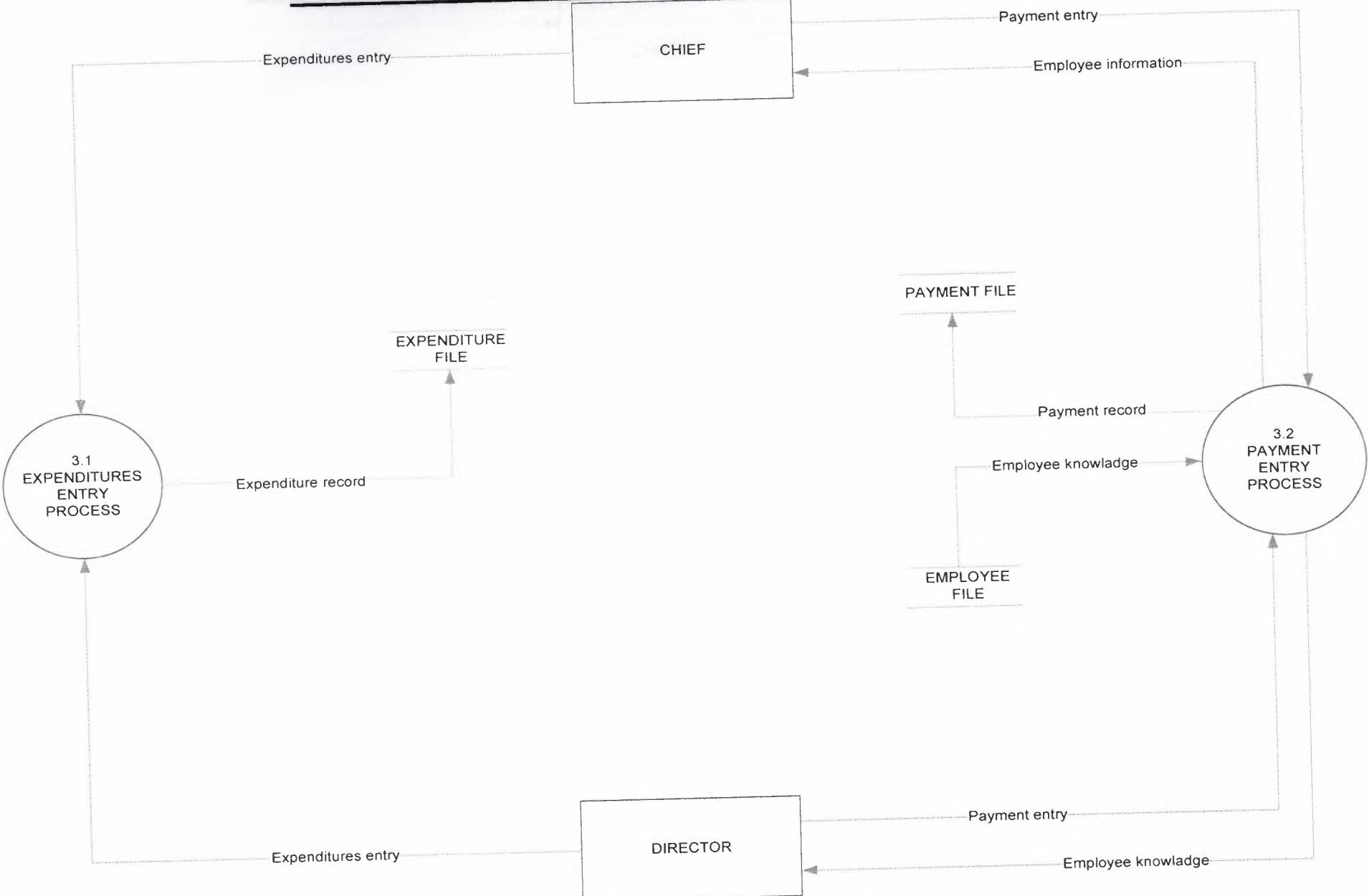
DETAIL DFD FOR TICKET PROCESS



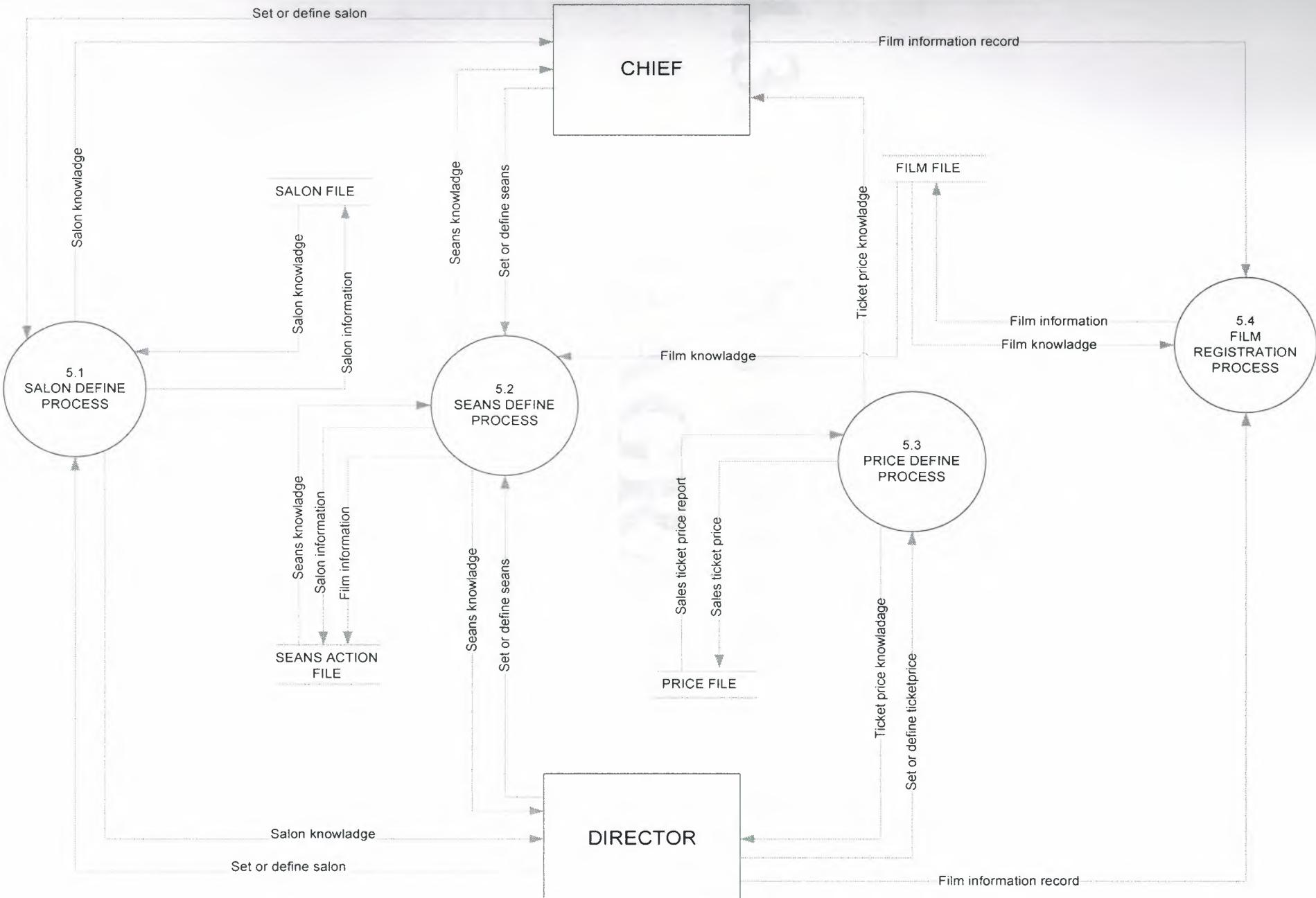
DETAIL DFD FOR REPORTS PROCESS



DETAIL DFD FOR ACCOUNTING PROCESS

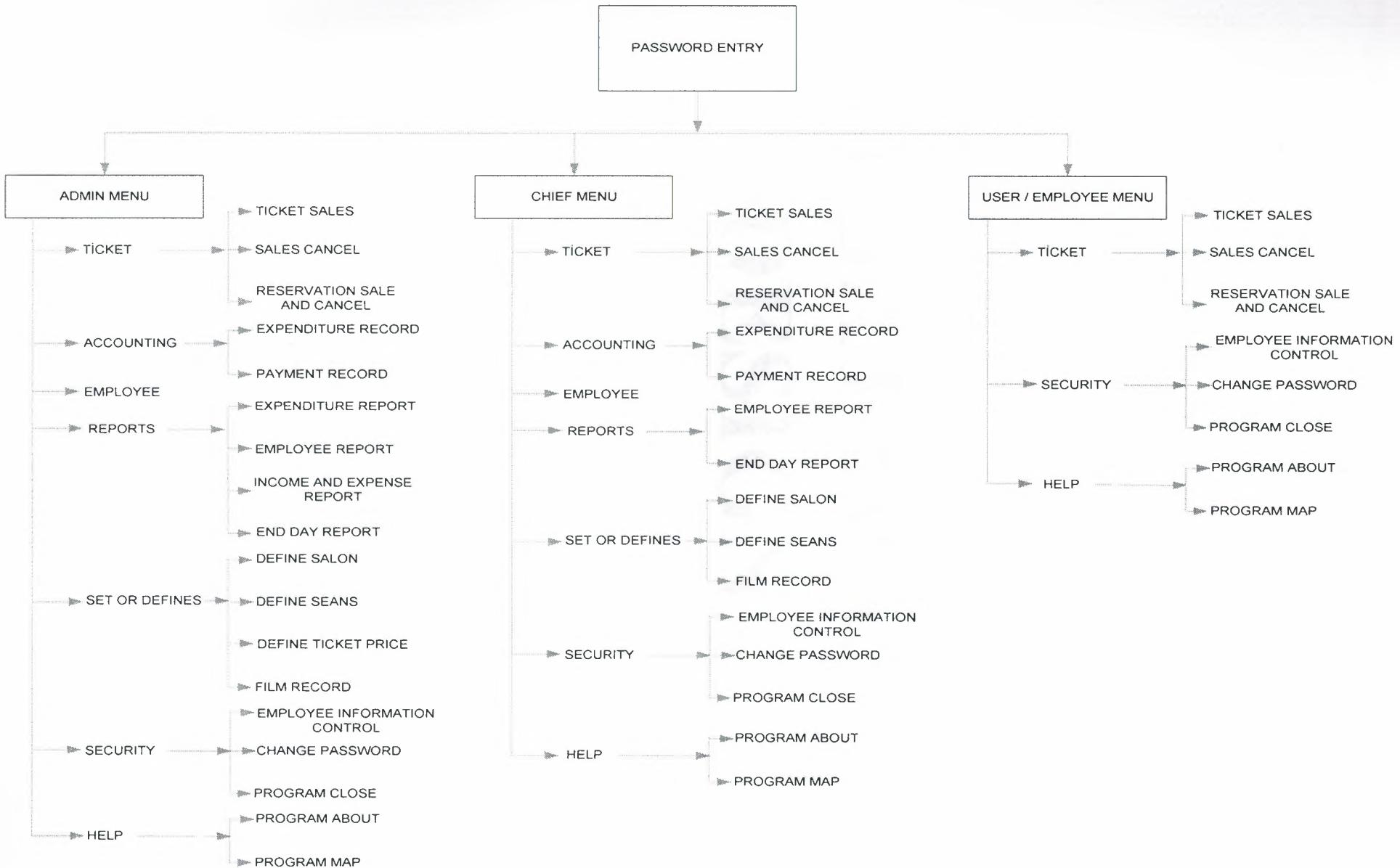


DETAIL DFD FOR SET OR DEFINE PROCESS



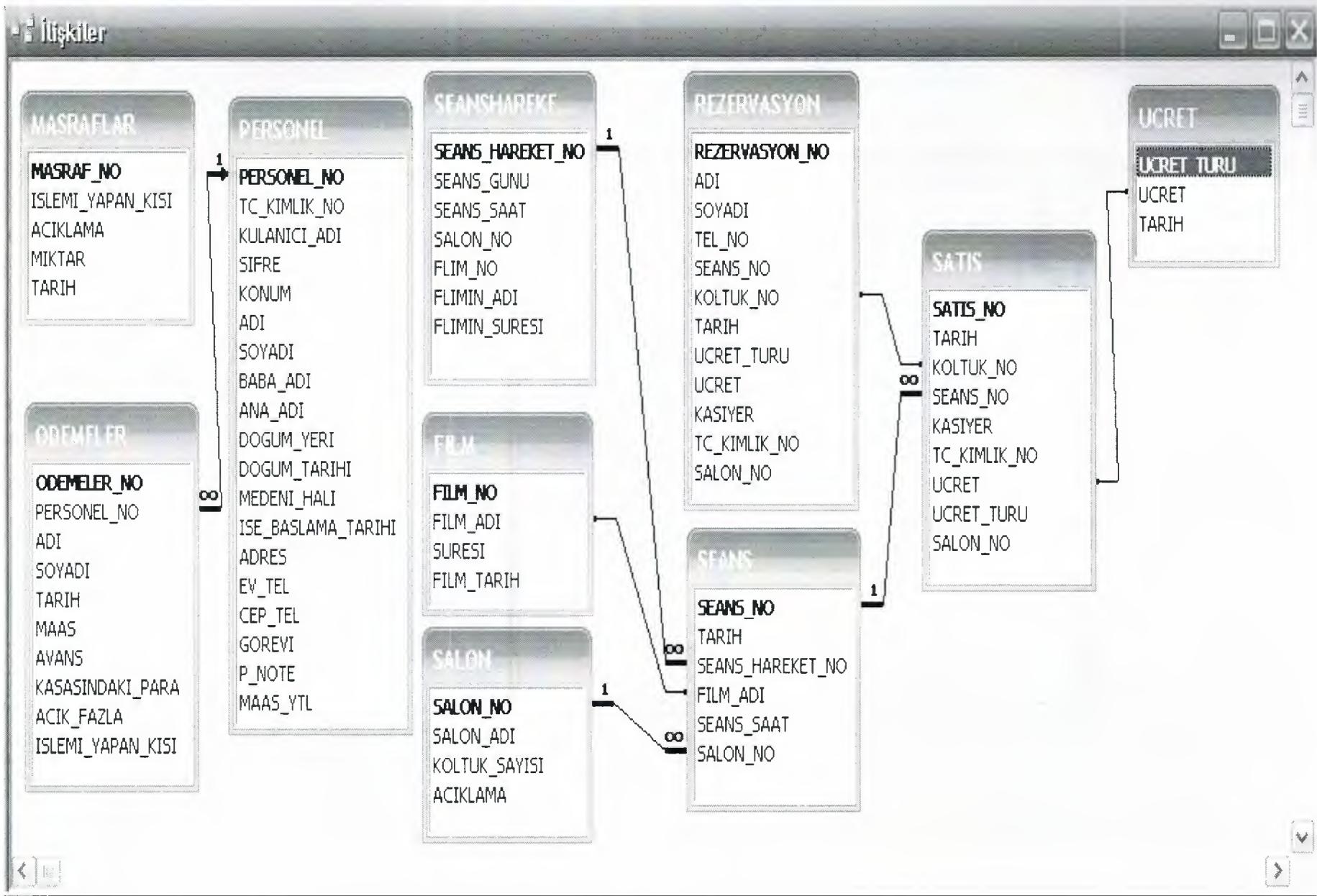
4.3. SYSTEM BLOCK DIAGRAM

SYSTEM BLOCK DIAGRAM



4.4 DATABASE DESIGN

RELATIONSHIP



EXPENDITURE TABLE

Column Name	Data Type	Length	Allow Nulls
MASRAF_NO	int	4	
ISLEMI_YAPAN_KISI	nvarchar	30	✓
ACIKLAMA	nvarchar	50	✓
MIKTAR	money	8	✓
TARIH	datetime	8	✓

Columns

Description

Default Value

Precision

Scale

Identity

Identity Seed

Identity Increment

Is Rowguid

Formula

Collation

PAYMENT TABLE

Design Table 'odemeler' in 'SINEMA' on '(local)'

Column Name	Data Type	Length	Allow Nulls
ODEMELER_NO	int	4	
PERSONEL_NO	int	4	✓
ADI	nvarchar	15	✓
SOYADI	nvarchar	20	✓
TARIH	datetime	8	✓
MAAS	money	8	✓
AVANS	money	8	✓
KASASINDAKI_PARA	money	8	✓
ACIK_FAZLA	money	8	✓
ISLEMI_YAPAN_KISI	nvarchar	30	✓

Columns

Description

Default Value

Precision

Scale

Identity Yes

Identity Seed 1

Identity Increment 1

RowGuid

Formula

Update

EMPLOYEE TABLE

Column Name	Data Type	Length	Allow Nulls
PERSONEL_NO	int	4	
TC_KIMLIK_NO	nvarchar	11	✓
KULLANICI_ADI	nvarchar	10	✓
SIFRE	nvarchar	10	✓
KONUM	nvarchar	10	✓
ADI	nvarchar	15	✓
SOYADI	nvarchar	20	✓
BABA_ADI	nvarchar	15	✓
ANA_ADI	nvarchar	15	✓
DOGUM_YERI	nvarchar	15	✓
DOGUM_TARIHI	smalldatetime	4	✓
MEDENI_HALI	nvarchar	5	✓
ISE_BASLANGIC_TARIHI	smalldatetime	4	✓
ADRES	nvarchar	60	✓
EV_TEL	nvarchar	11	✓
CEP_TEL	nvarchar	11	✓
GOREVI	nvarchar	15	✓
P_NOTE	nvarchar	60	✓
MAAS_YTL	money	8	✓

Columns

Description

Default Value

Format

Scale

Identity Yes

Identity Seed 1

Identity Increment 1

Is Special

Formula

Collation

RESERVATION TABLE

Design Table 'rezervasyon' in 'SINEMA' on '(local)'

Column Name	Data Type	Length	Allow Nulls
REZERVASYON_NO	bigint	8	
ADI	nvarchar	20	✓
SOYADI	nvarchar	20	✓
TEL_NO	nvarchar	11	✓
SEANS_NO	nvarchar	5	✓
KOLTUK_NO	nvarchar	3	✓
TARIH	datetime	8	✓
UCRET_TURU	nvarchar	8	✓
UCRET	money	8	✓
KASİYER	nvarchar	30	✓
TC_KIMLIK_NO	nvarchar	11	✓
SALON_NO	int	4	✓

Columns

Description

Default Value

Properties

Identity

Identity Seed

Identity Increment

Formula

SELLING TABLE

Design Table 'satis' in 'SINEMA' on '(local)'

	Column Name	Data Type	Length	Allow Nulls	
1	SATIS_NO	bigint	8		
2	TARIH	datetime	8	✓	
3	KOLTUK_NO	nvarchar	3	✓	
4	SEANS_NO	nvarchar	5	✓	
5	KASIYER	nvarchar	30	✓	
6	TC_KIMLIK_NO	nvarchar	11	✓	
7	UCRET	money	8	✓	
8	UCRET_TURU	nvarchar	8	✓	
9	SALON_NO	int	4	✓	

Columns

Description

Default Value

Precision

Scale

Identity

Identity Seed

Identity Increment

Is Rowguid

Formula

Collation

SALON TABLE

Design Table 'salon' in 'SINEMA' on '(local)'

Column Name	Data Type	Length	Allow Nulls
SALON_NO	int	4	
SALON_ADI	nvarchar	25	✓
KOLTUK_SAYISI	int	4	✓
ACIKLAMA	nvarchar	50	✓

Columns

Description

Default Value

Precision

Scale

Identity

Identity Seed

Identity Increment

Is Rowguid

Formula

Collation

SEANS TABLE

Design Table 'seans' in 'SINEMA' on '(local)'

	Column Name	Data Type	Length	Allow Nulls
1	SEANS_NO	bigint	8	
2	TARIH	datetime	8	✓
3	SEANS_HAREKET_NO	bigint	8	✓
4	FILM_ADI	nvarchar	30	✓
5	SEANS_SAAT	nvarchar	8	✓
6	SALON_NO	int	4	✓

Columns

Description

Default Value

Procedure

Scale

Identity Yes

Identity Seed 1

Identity Increment 1

Is Rowguid

Formula

Collation

SEANS ACTION TABLE

Column Name	Data Type	Length	Allow Nulls
SEANS_HAREKET_NO	bigint	8	
SEANS_GUNU	nvarchar	10	
SEANS_SAAT	nvarchar	8	
SALON_NO	int	4	
FILM_NO	int	4	✓
FILMIN_ADI	nvarchar	30	✓
FILMIN_SURESİ	nvarchar	20	✓

Columns

Description

Default Value

Precision

Scale

Identity

Identity Seed

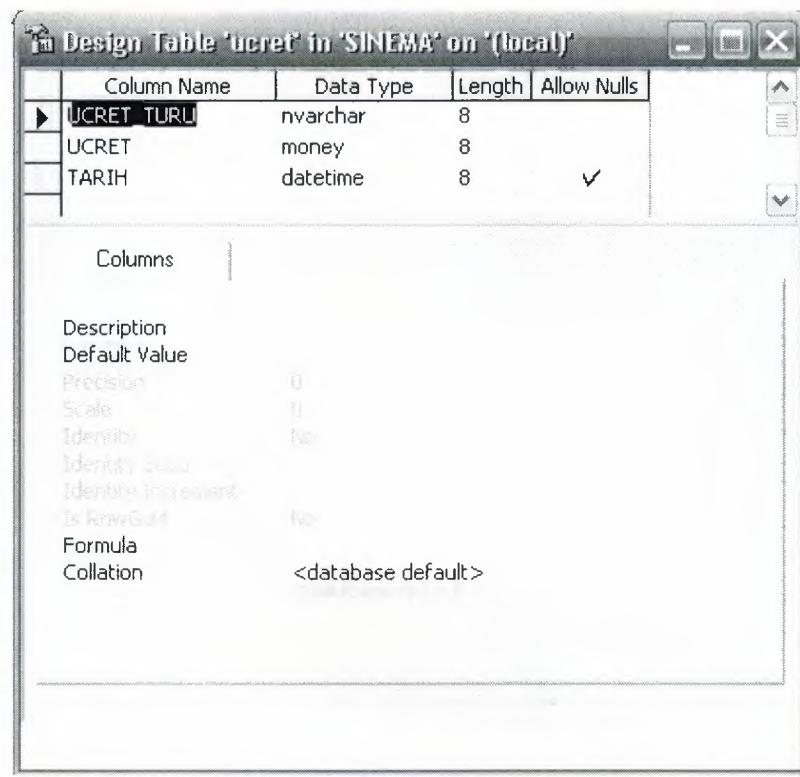
Identity Increment

Is Identity

Formula

Collection

PRICE TABLE



FILM TABLE

Column Name	Data Type	Length	Allow Nulls
FILM_NO	int	4	
FILM_ADI	nvarchar	30	
SURESI	nvarchar	20	✓
FILM_TARIH	datetime	8	✓

Columns

Description
Default Value
Precision
Scale
Identity
Identity Seed
Identity Increment
Is Rowguid
Formula
Collation <database default>

5

USER MANUAL

Finally users can
authorize their

There are two

Admin
Me
Co

5.1

USER GUIDELINES

Expenditure

- * Registration
- * Registration
In expenditure
administrator
- * User registration
and login

PASSWORD ENTRY AND MAIN MENU

Firstly users have to enter user name and password and each user has different authorization

There are 3 kind of user Admin, Manager, Cashier

Admin is allowed to enter each part of program and can control everything.

Manager only can not define ticket price income\expenditure reports .

Cashier is only authorized ticket sales, reservations and cancel them just that.

(Reference figure 1.2.3.4)

TICKET SALES & CANCEL

In this part, after users are making séance searching according to date, then choose an appropriate séance from the séances at screen and armchairs of saloon which belongs to that séance will be seen. After user chooses appropriate armchairs, he/she can determine how much student and civilians are. Than , he/she decides is he/she sells or make reservation tickets which are chooser if he/she want to sell then ,he/she touchier to the “sell” button. If he/she wants to make reservation, reservation screen comes and it is written name, surname and phone number of the customer to this part and it is touched to the “reservation” button so, we finish processing of this part.

(Reference figure 5.6.7.8.)

ACCOUNTING

Expenditures and Payments

- Registration of expenditures.(There reports are used chef and director)
- Registration of Payment. (There reports are used chef and director)

In expenses registration part, we can see registration of expenses which administrating is making, There are two areas in payments registration part. In first area we make salary appointment for every staff every month. In second area, we can registry advance which administrating give to it's staff

(Reference figure 9.10.11.)

EMPLOYEE

Enlistment of the personnel (There reports are used chef and director).

In this part, we can search to the individual information, and salary amount of the staff, and user's name and password which staff is determined. In addition there is also an area which helps to change user's name and password in the main menu.

(Reference figure 12.)

REPORTS

Reports This part helps us to reach to various report summaries.

- Expenditure Reports (There reports are used only director).

In this part, we choose kind of reports(expense reports, payment reports) and we determine two different date and when we touch to the "show" button, the system show us the expenses which are made between these dates or payments which are made to the staff. If we touch to the "print" button, the system prints these reports.

- Employee Reports (There reports are used chef and director).

In this part, we can see information about the staff which ever staff is information we want to search, we write that staff's "employee number" and come in to the two dates system and this system shows us events between two dates. If we want, we also take it as "print".

- Income and Expenses Reports (There reports are used only director)

In this part, we come two dates in system and the system shows us selling, expense and total of payment which are made to the staff by making processing according to certain formats between the two dates so we can easily see profit-losing money report.

- Reports from the end of the day (There reports are used chef and director).

In this part, we can fix is selling which cashiers are making in that day are equal with the money which are in their box at the end of the day. If we want, we can print this report.

(Reference figure 13.14.15.16.17.18.19.20.21.22.23.24.25.)

SET OR DEFINES

This part helps us to search to the definitions in the system.

- Set or define séance and cancel. (It used by chef and director).

This part helps us to fix when and where the film will start. In addition, it also helps us to cancel the séance which we defined before.

(Reference figure 26.27.29.)

- Set or define salon. (It used by chef and director).

This part helps us to define new saloon we can see which saloon has got how much armchair.

(Reference figure 30.)

- Set or define ticket price. (Only it used by director).

In this part, anybody who has admin authority can easily define prices of tickets.

(Reference figure 31.)

- Definition and record film. (It used by chef and director).

In this part, films which are ready to be shown are registered to the film.

(Reference figure 32.)

SECURITY

All users can change own password and username firstly user must enter old password and username and then information of user will be shown on the screen and user will be authorized to change own password and username

(Reference figure 33.34.)

HELP

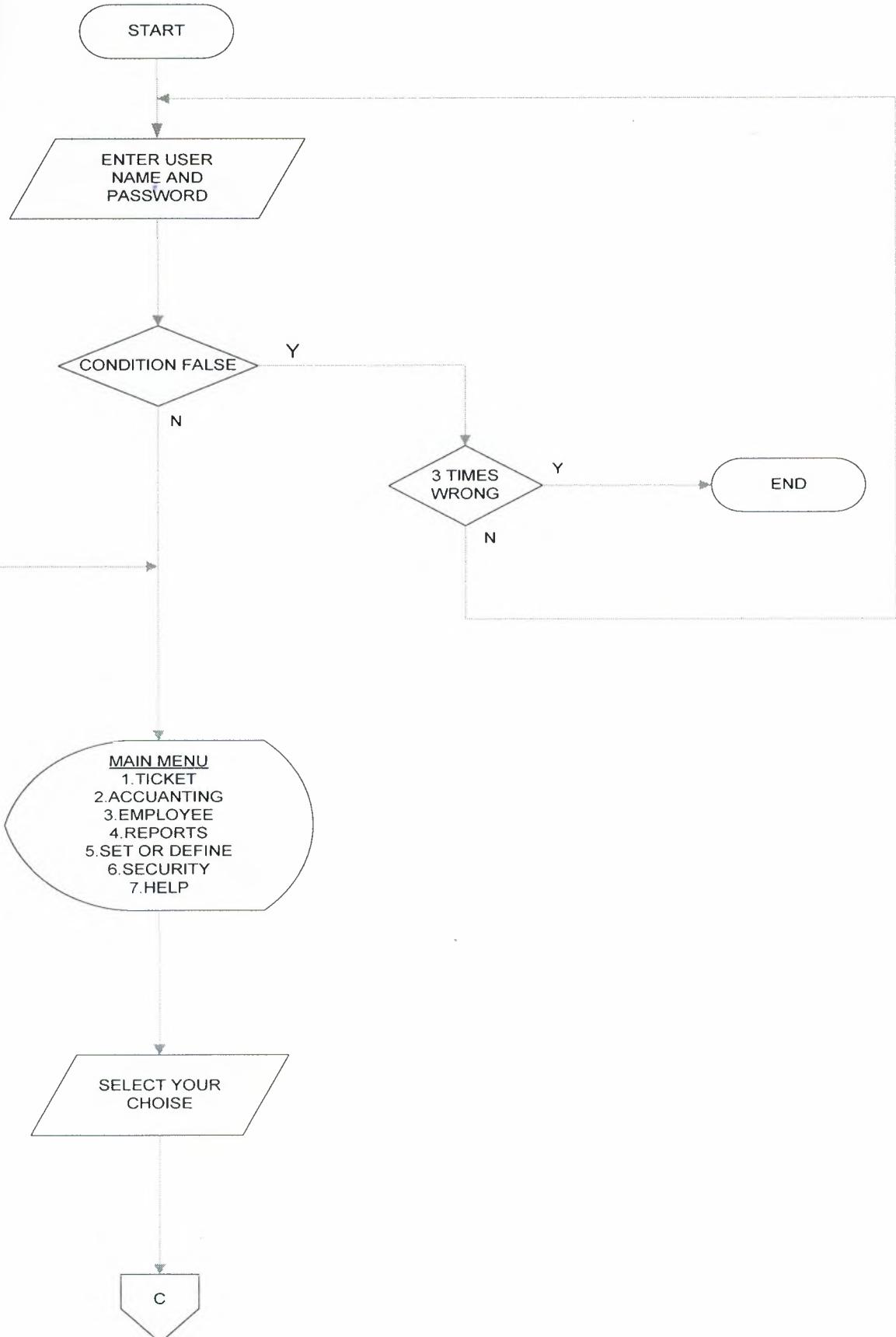
User can see help menu depends on their authorization. And user can see authorized menu and then can enter these menu.

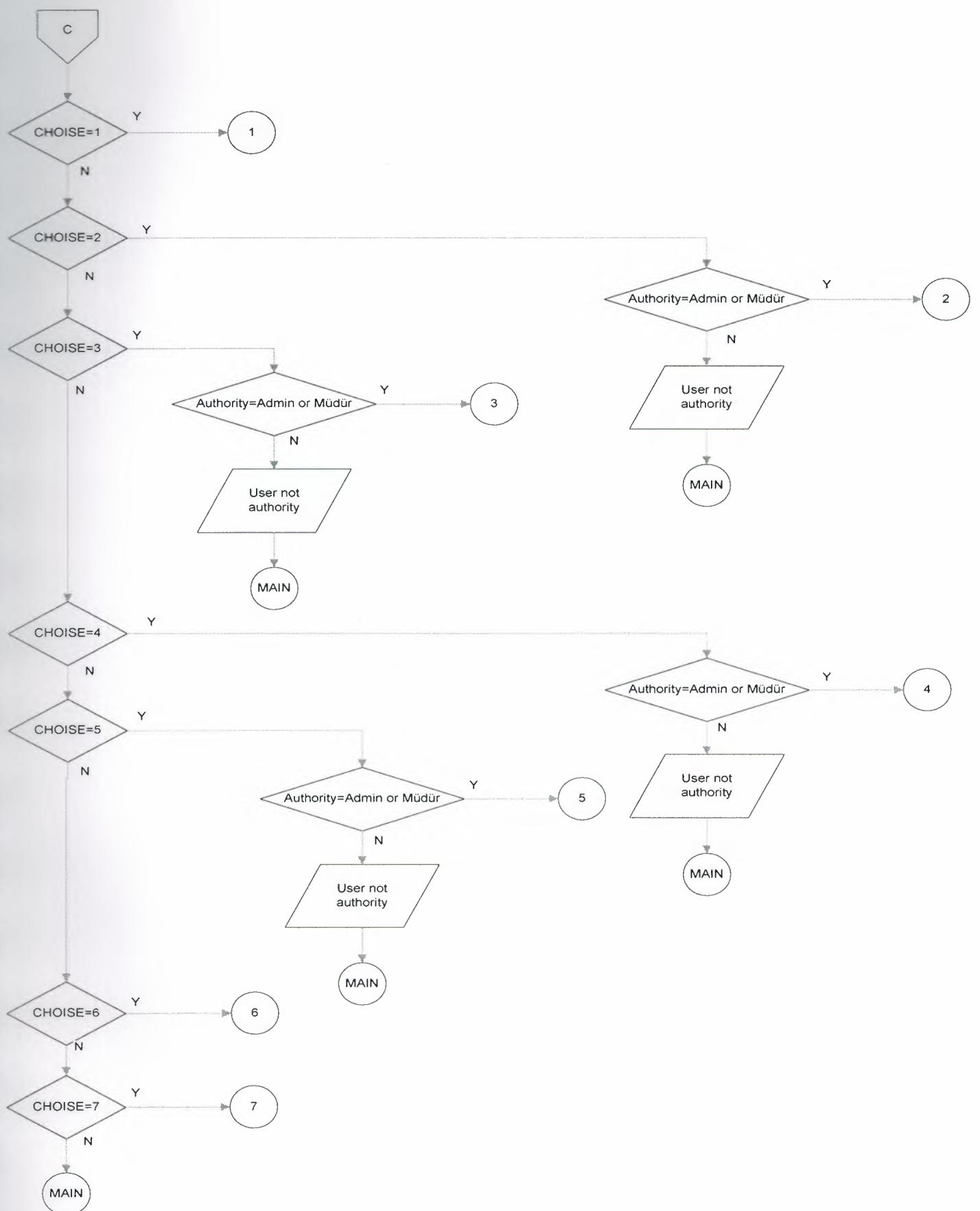
(Reference figure 35.36.37.38.39.)

5.2

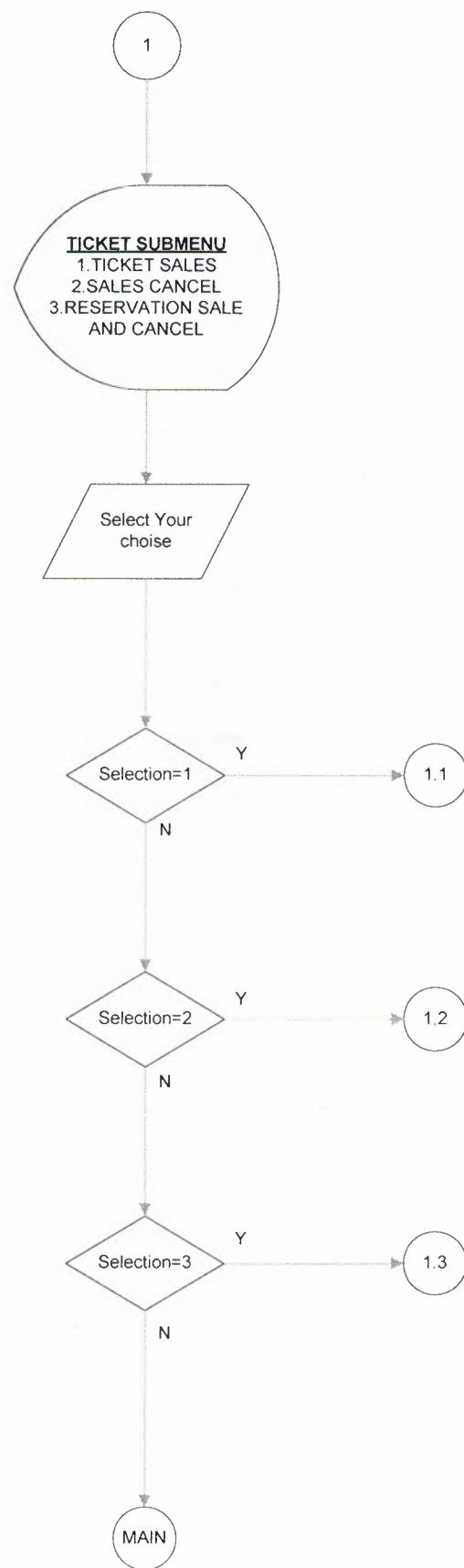
USER FLOW CHARTS

PASSWORD ENTRY AND MAIN MENU

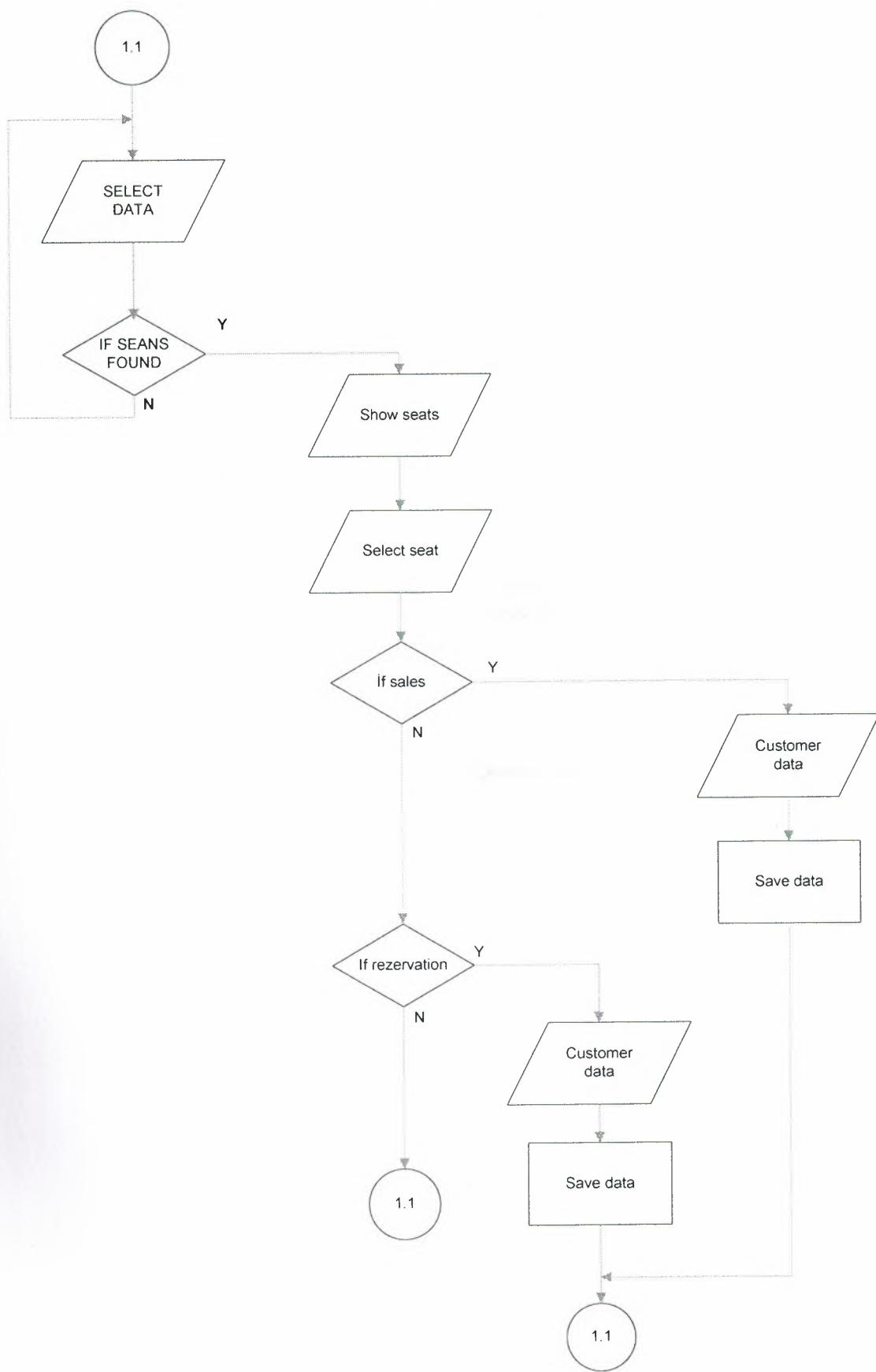




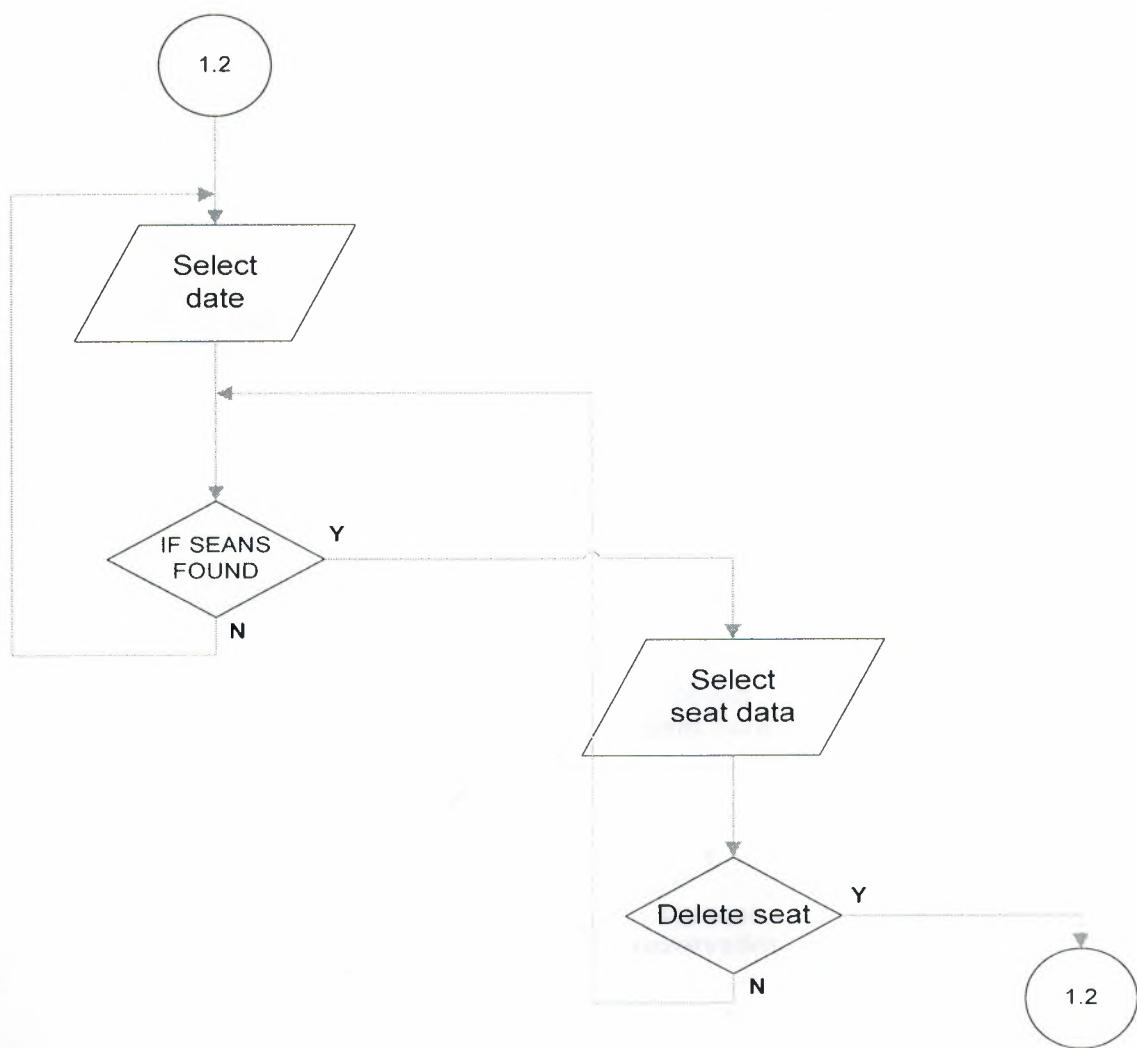
1.TICKET



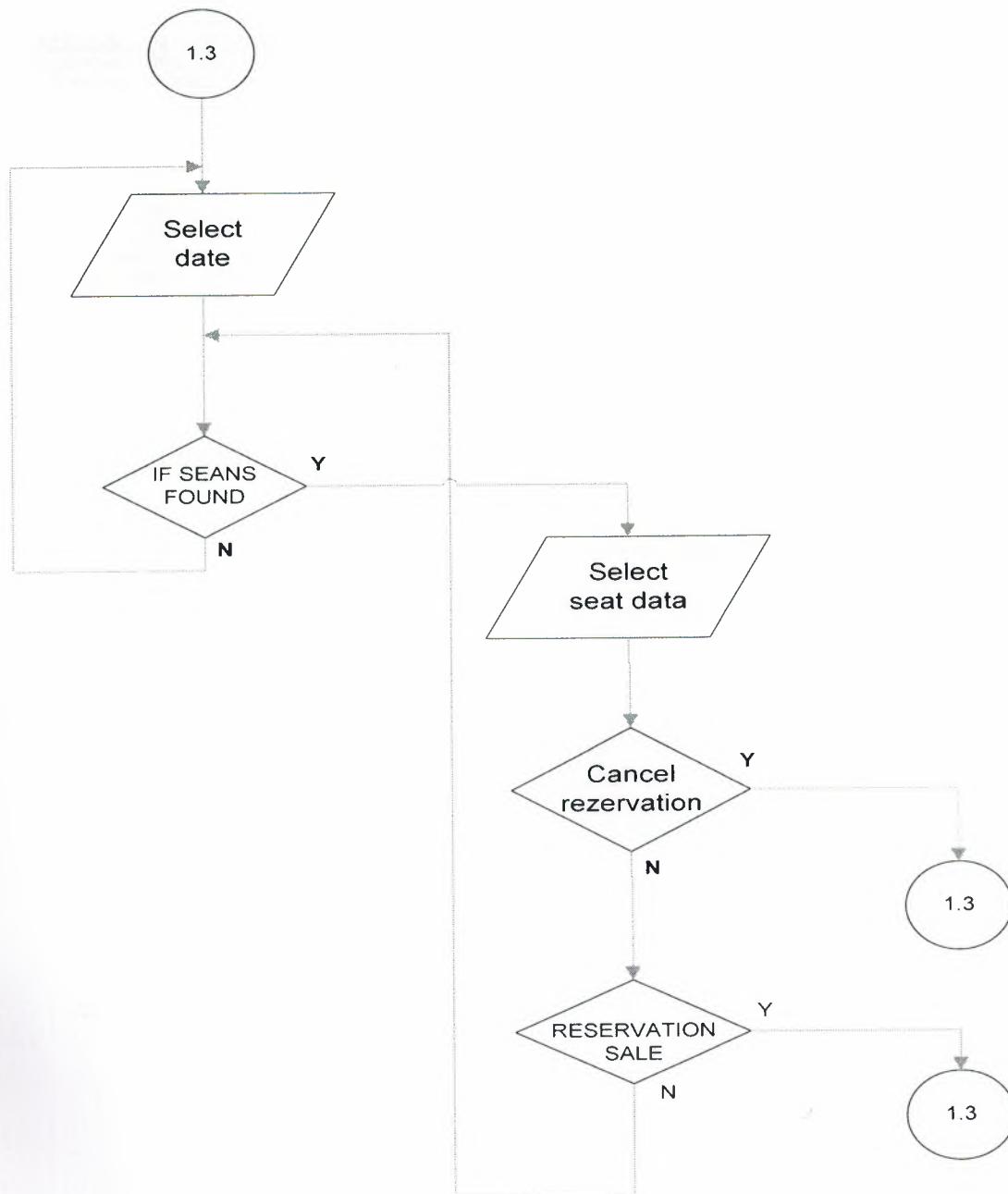
1.1.TICKET SALES



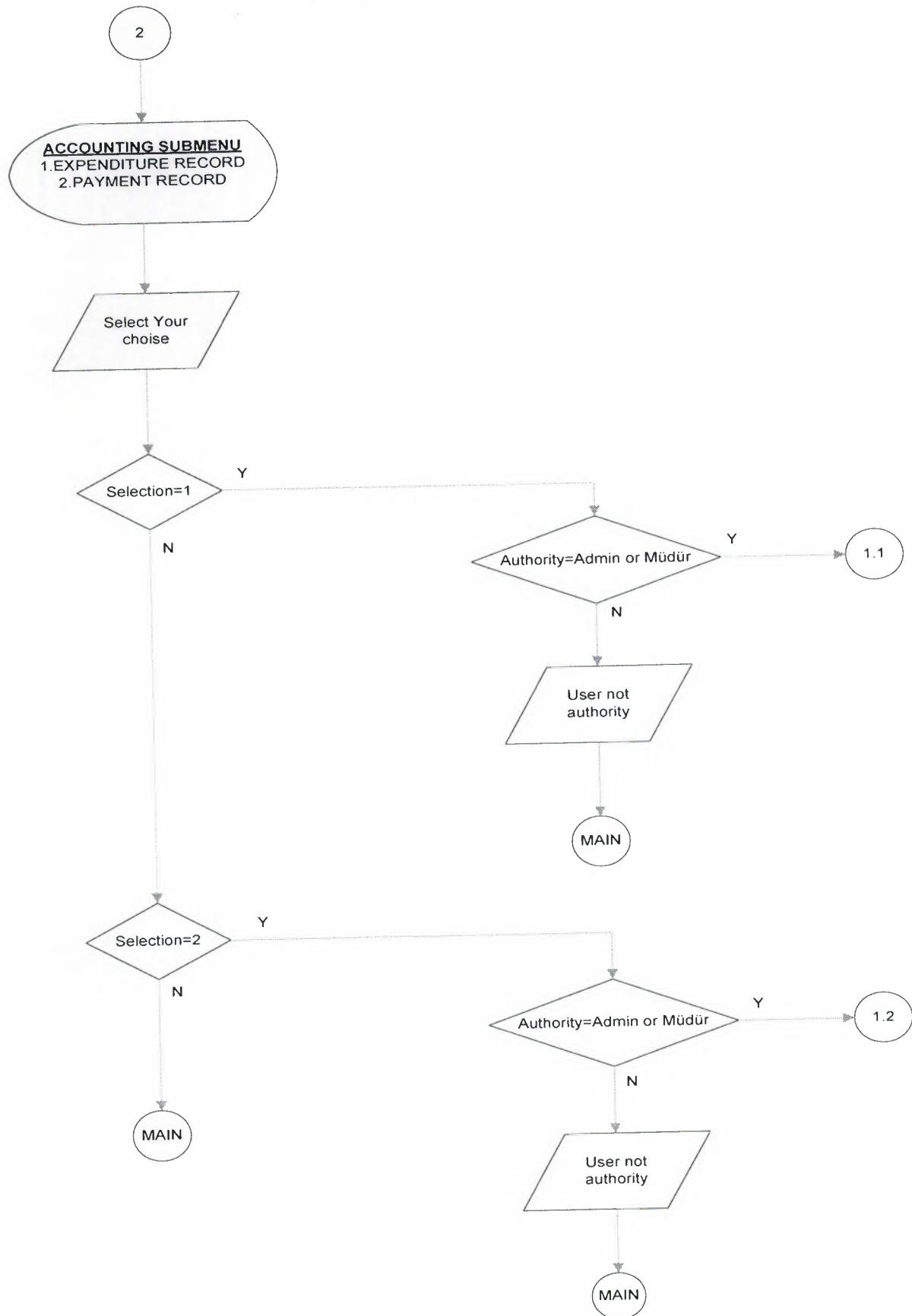
1.2.SALES CANCEL



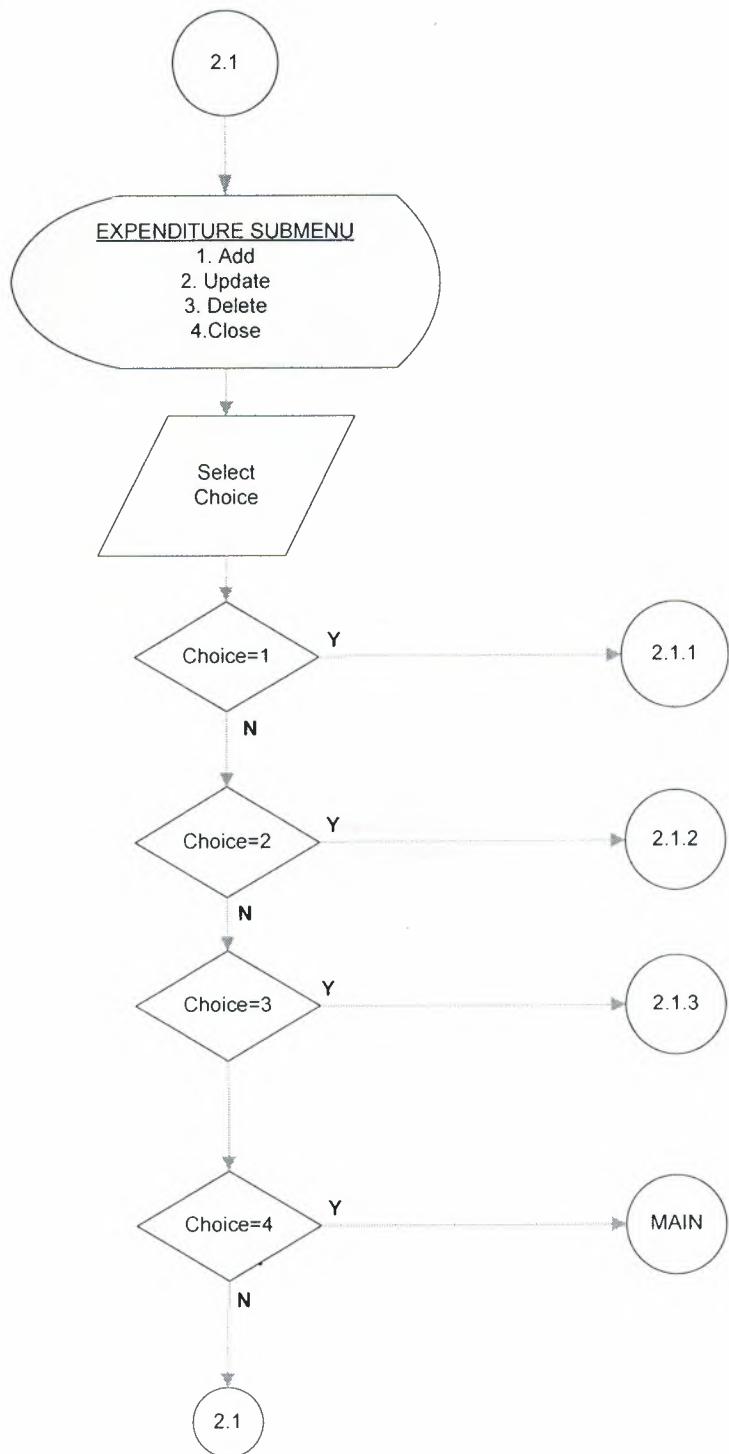
1.3. RESERVATION SALE AND CANCEL



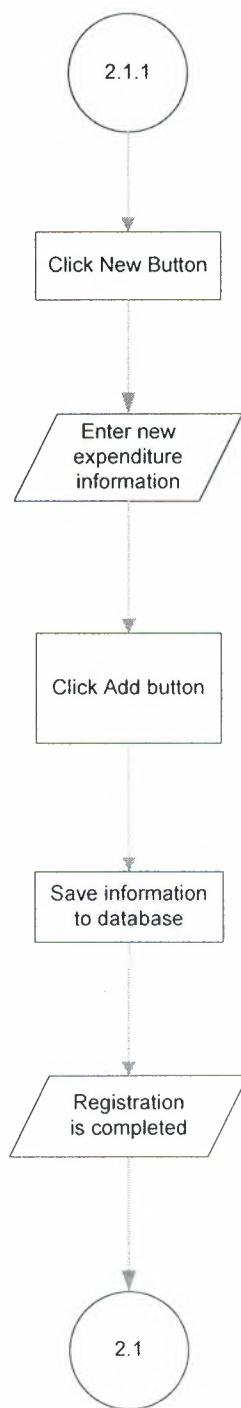
2.ACOUNTING



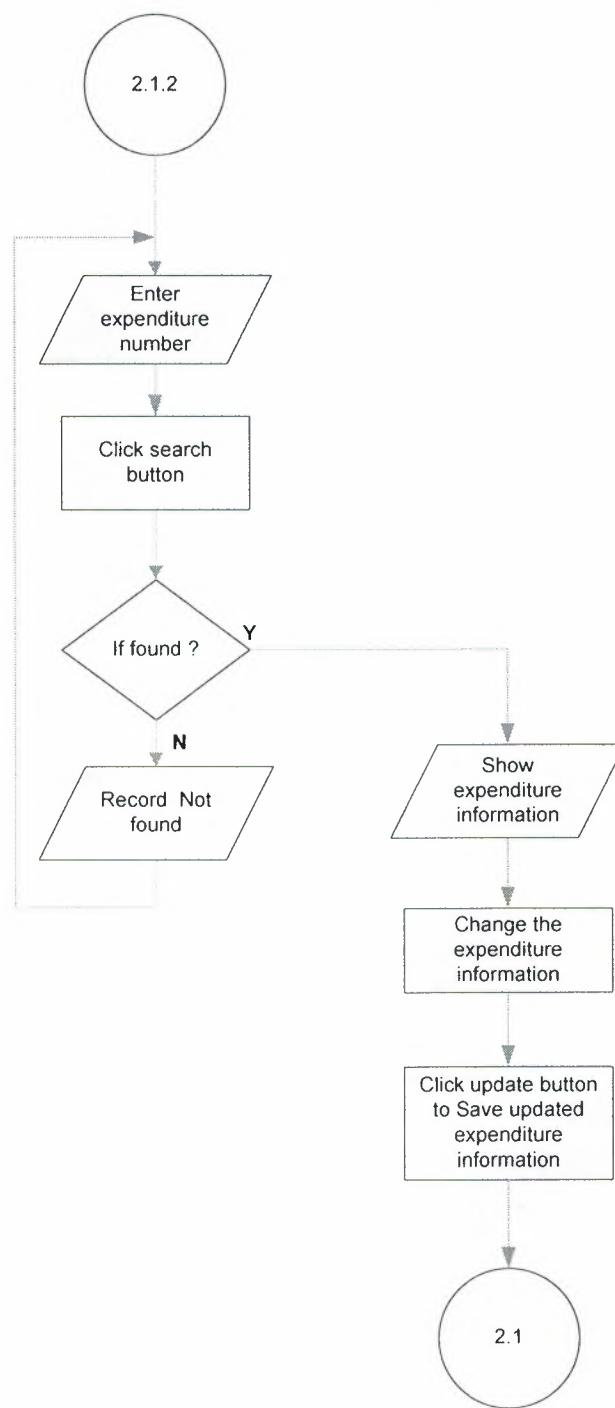
2.1. EXPENDITURE RECORD



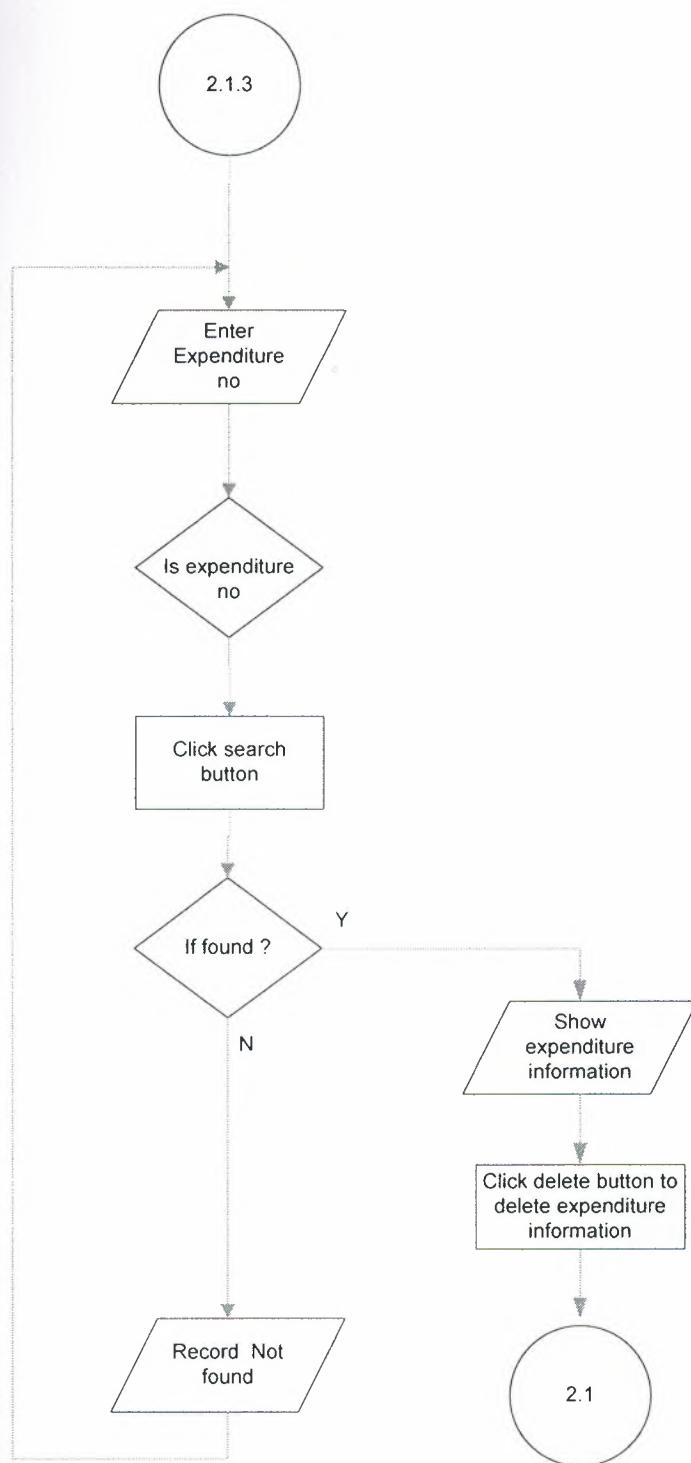
2.1.1. EXPENDITURE ADD



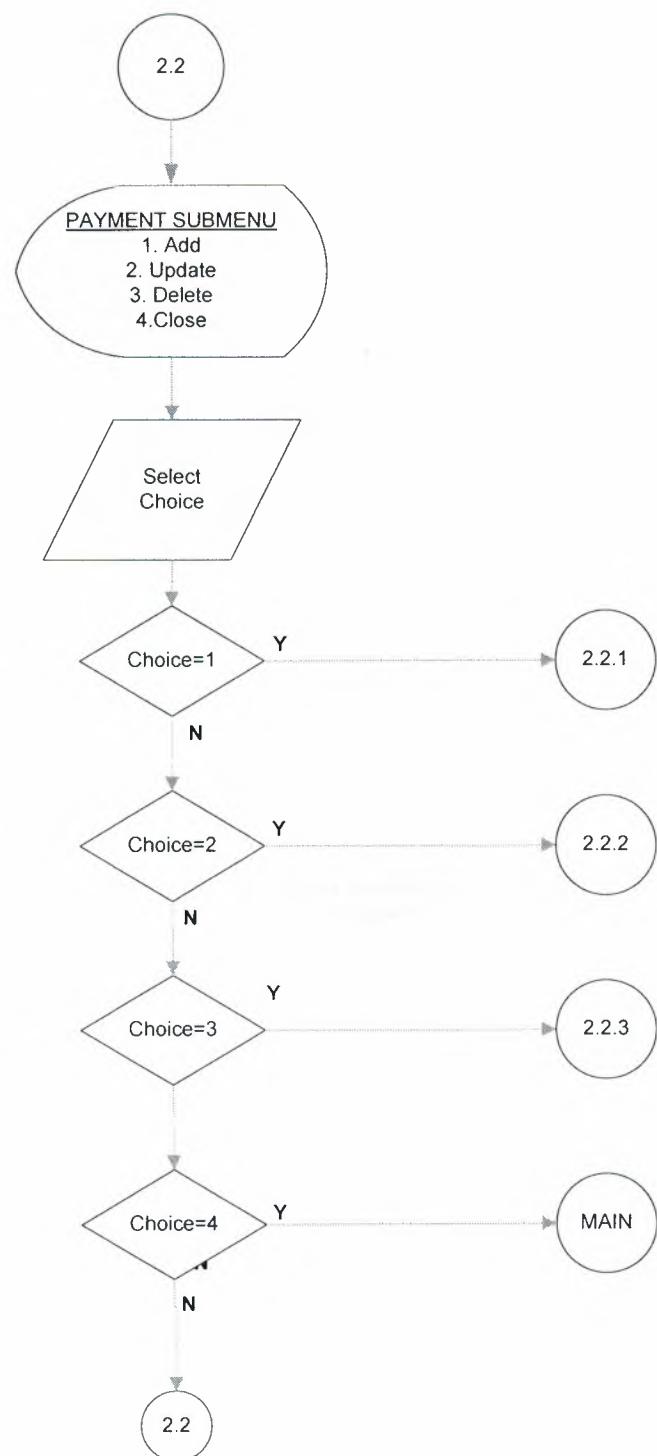
2.1.2.EXPENDITURE UPDATE



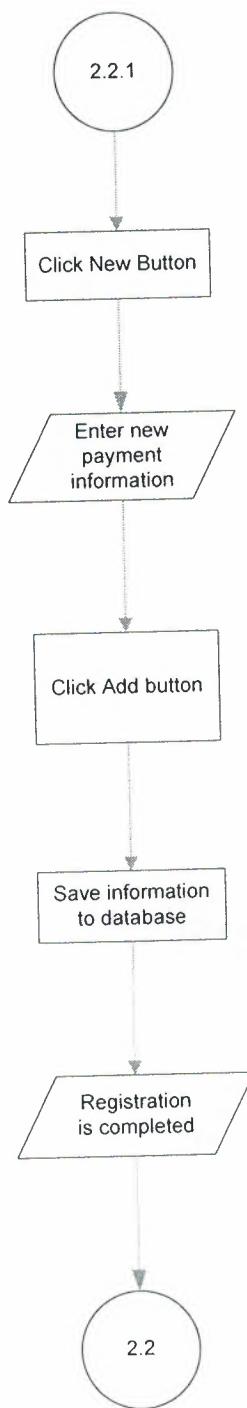
2.1.3.EXPENDITURE DELETE



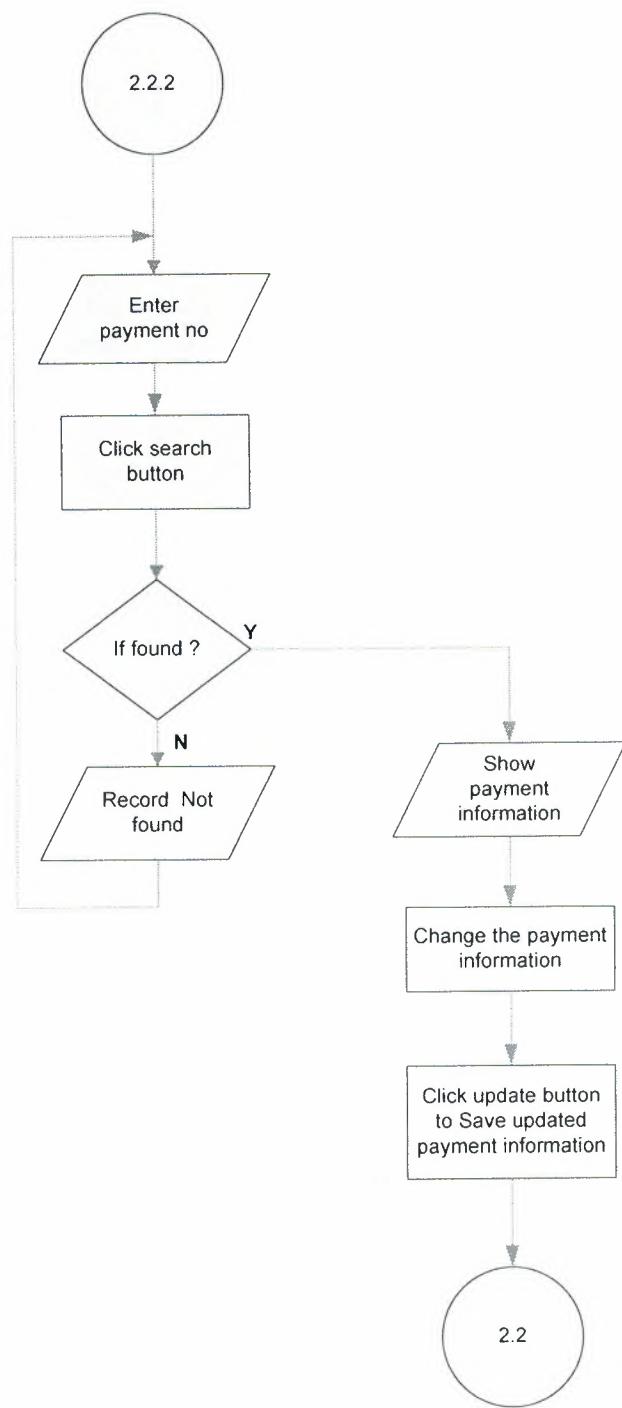
2.2.PAYMENT RECORD



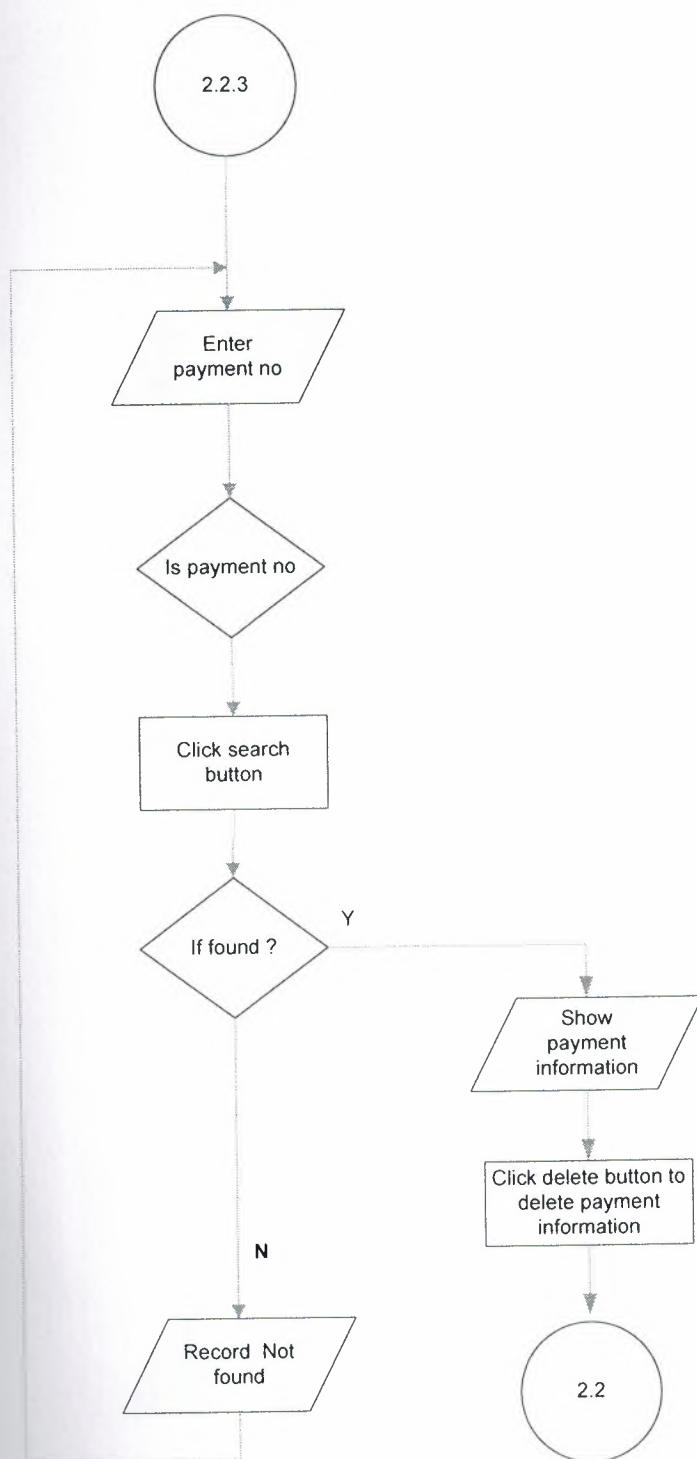
2.2.1.PAYMENT ADD



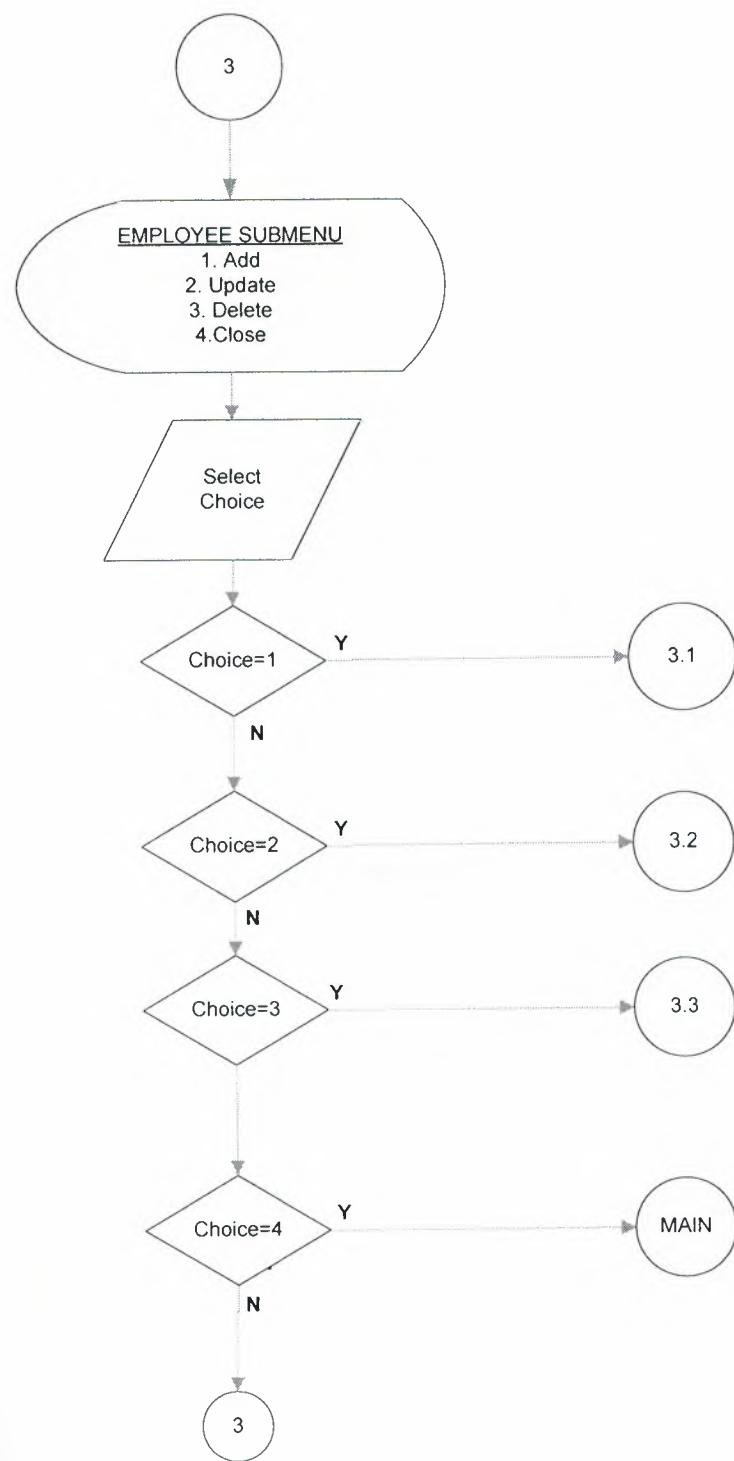
2.2.2.PAYMENT UPDATE



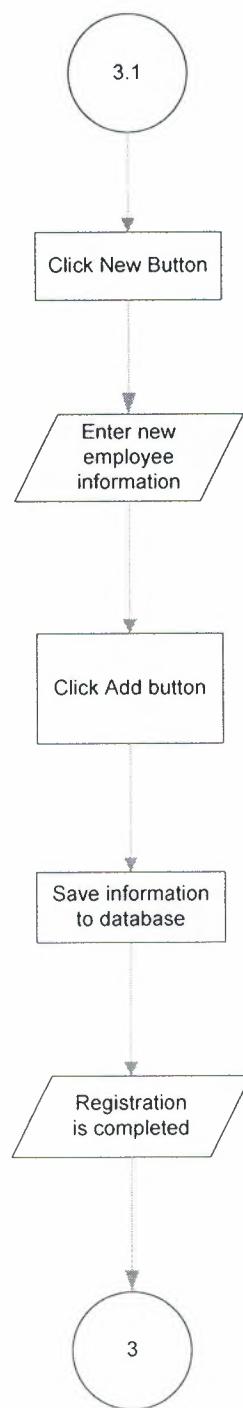
2.2.3.EXPENDITURE DELETE



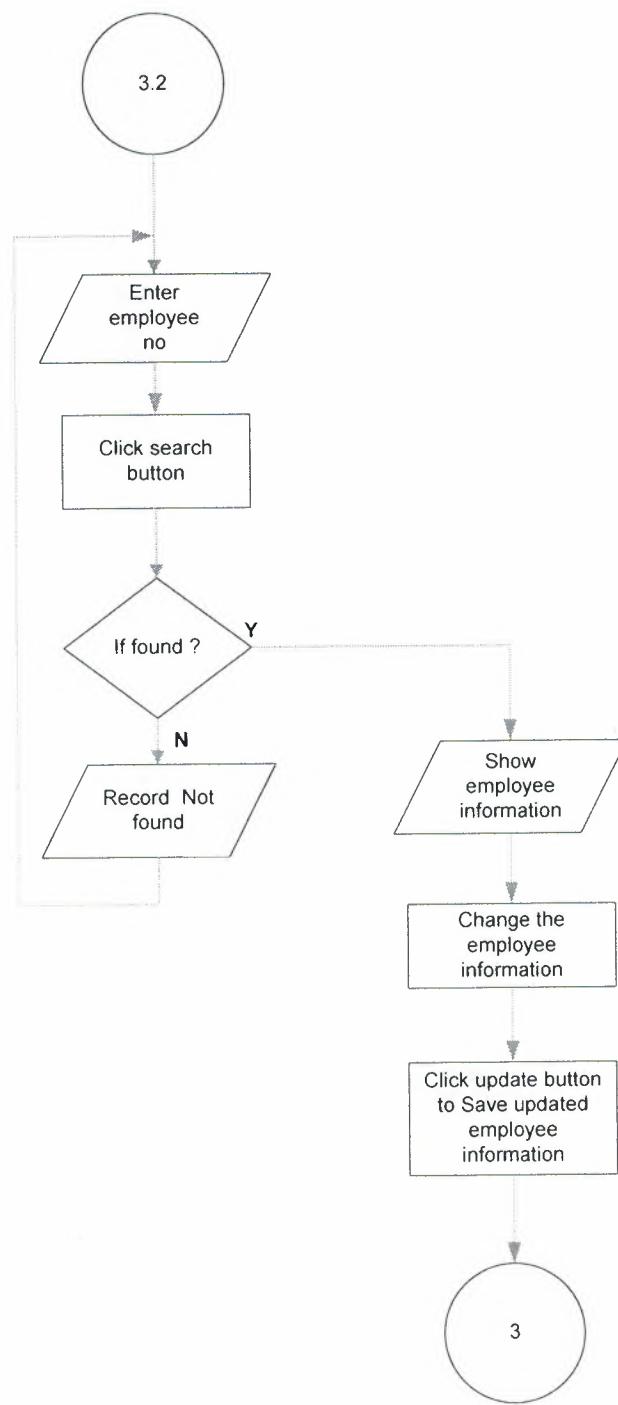
3.EMPLOYEE



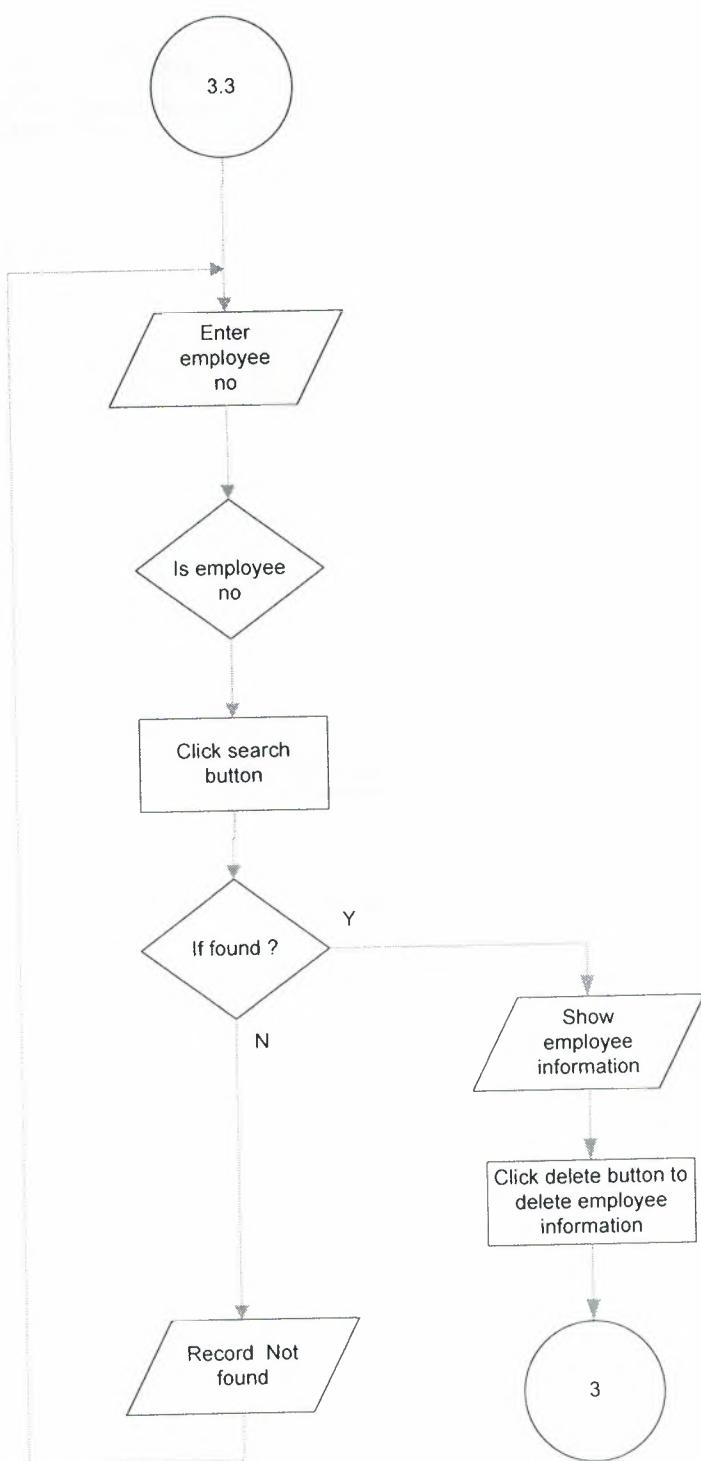
3.1.EMPLOYEE ADD



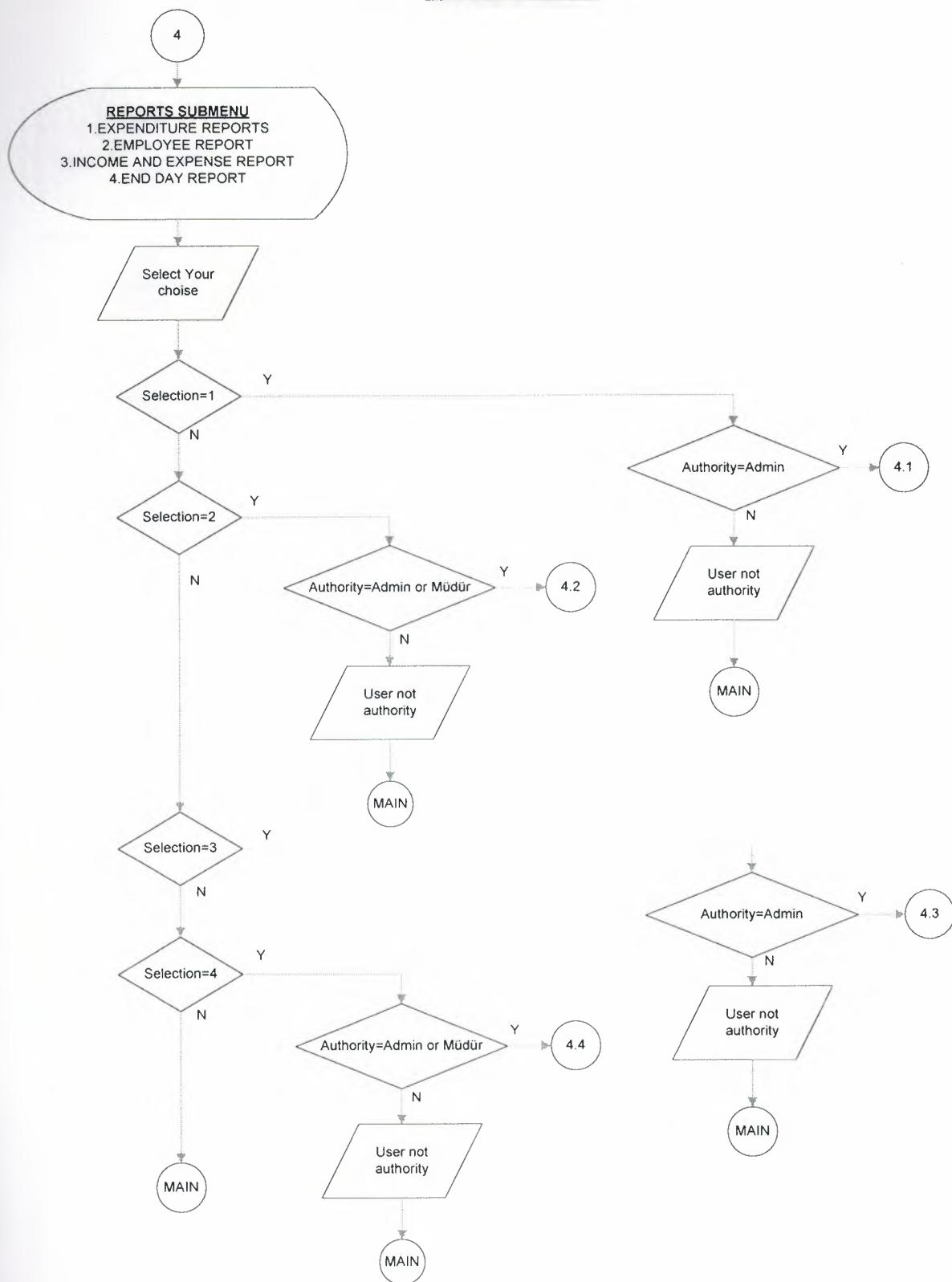
3.2.EMPLOYEE UPDATE



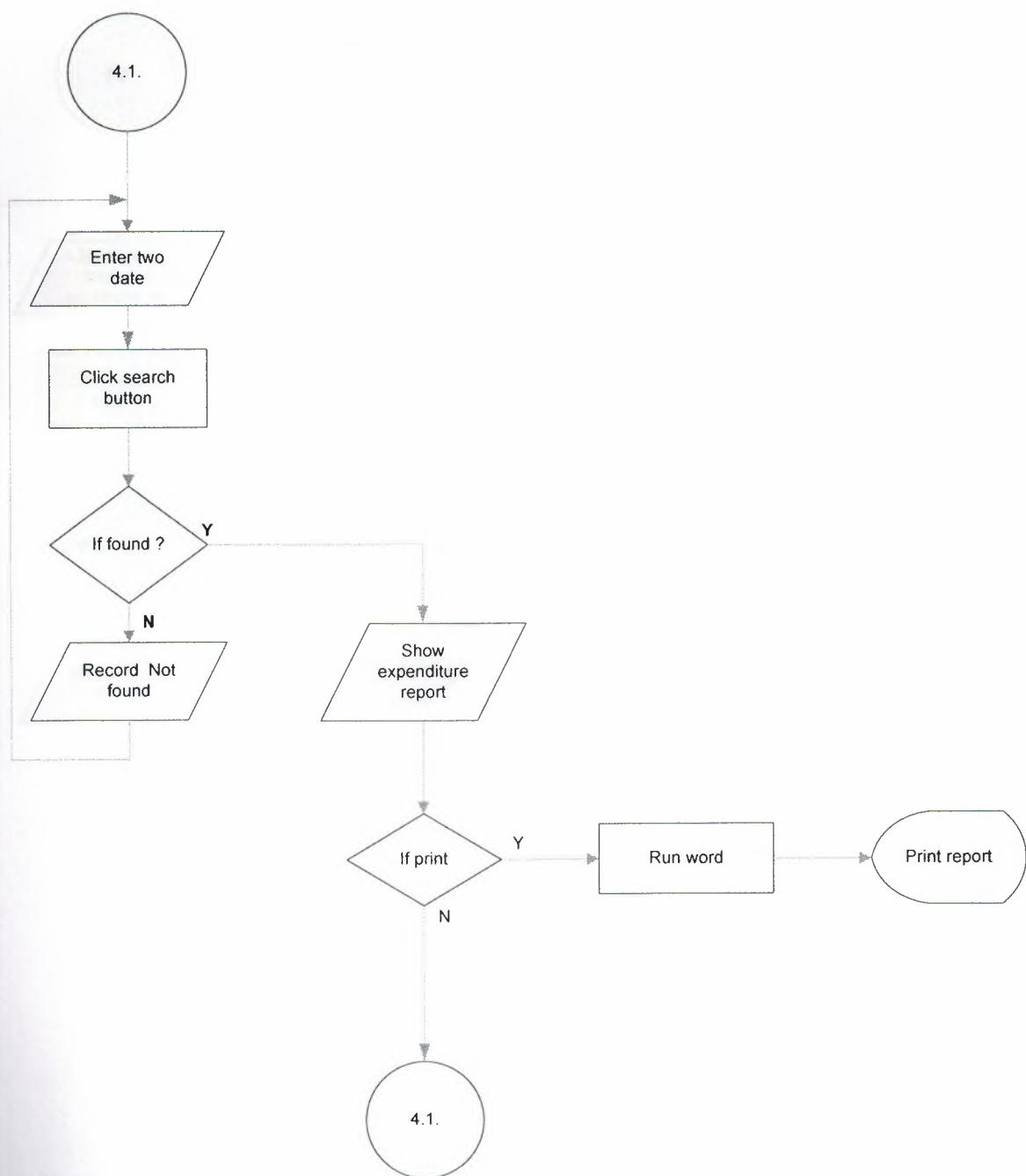
3.3.EMPLOYEE DELETE



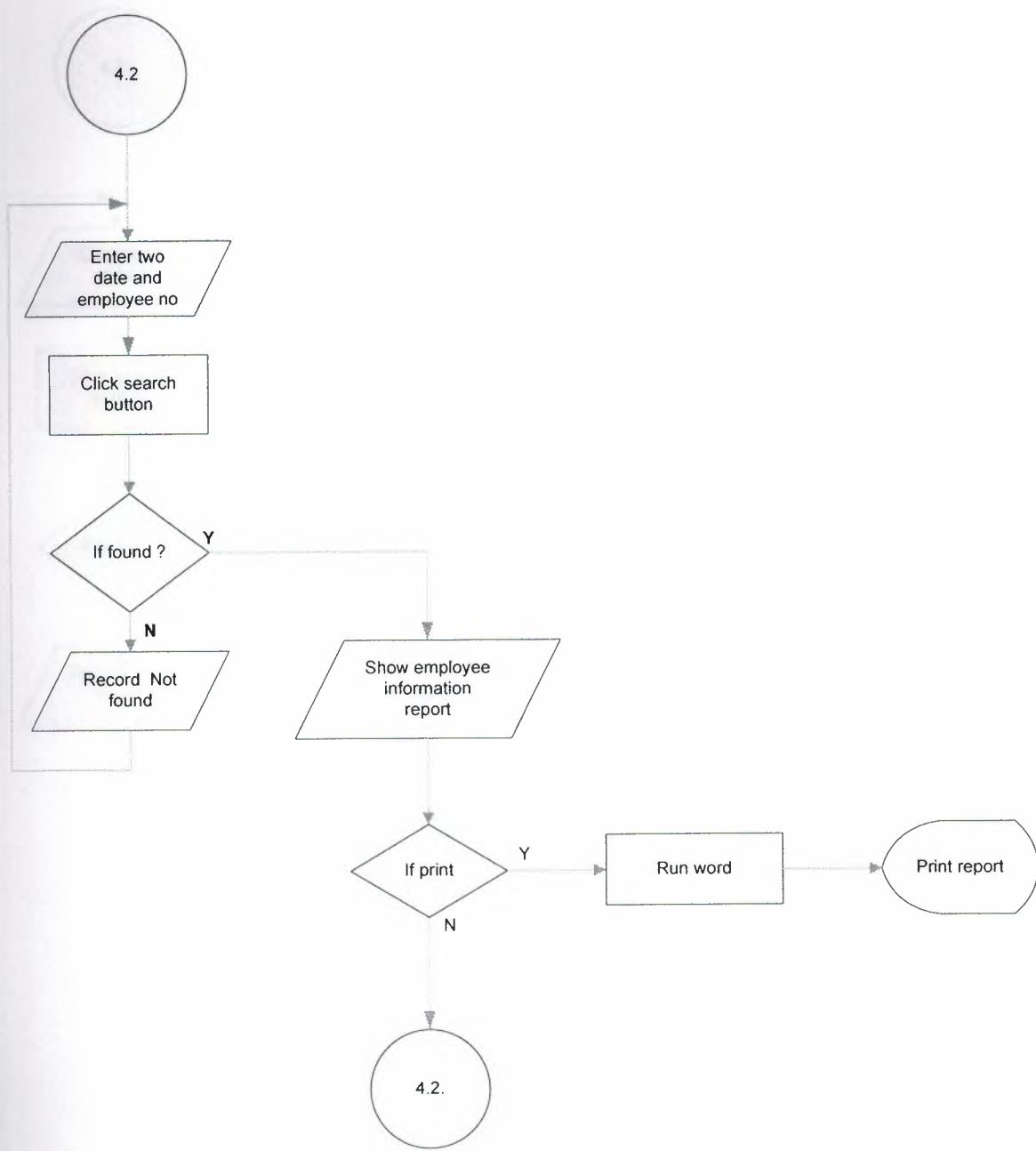
4.REPORTS



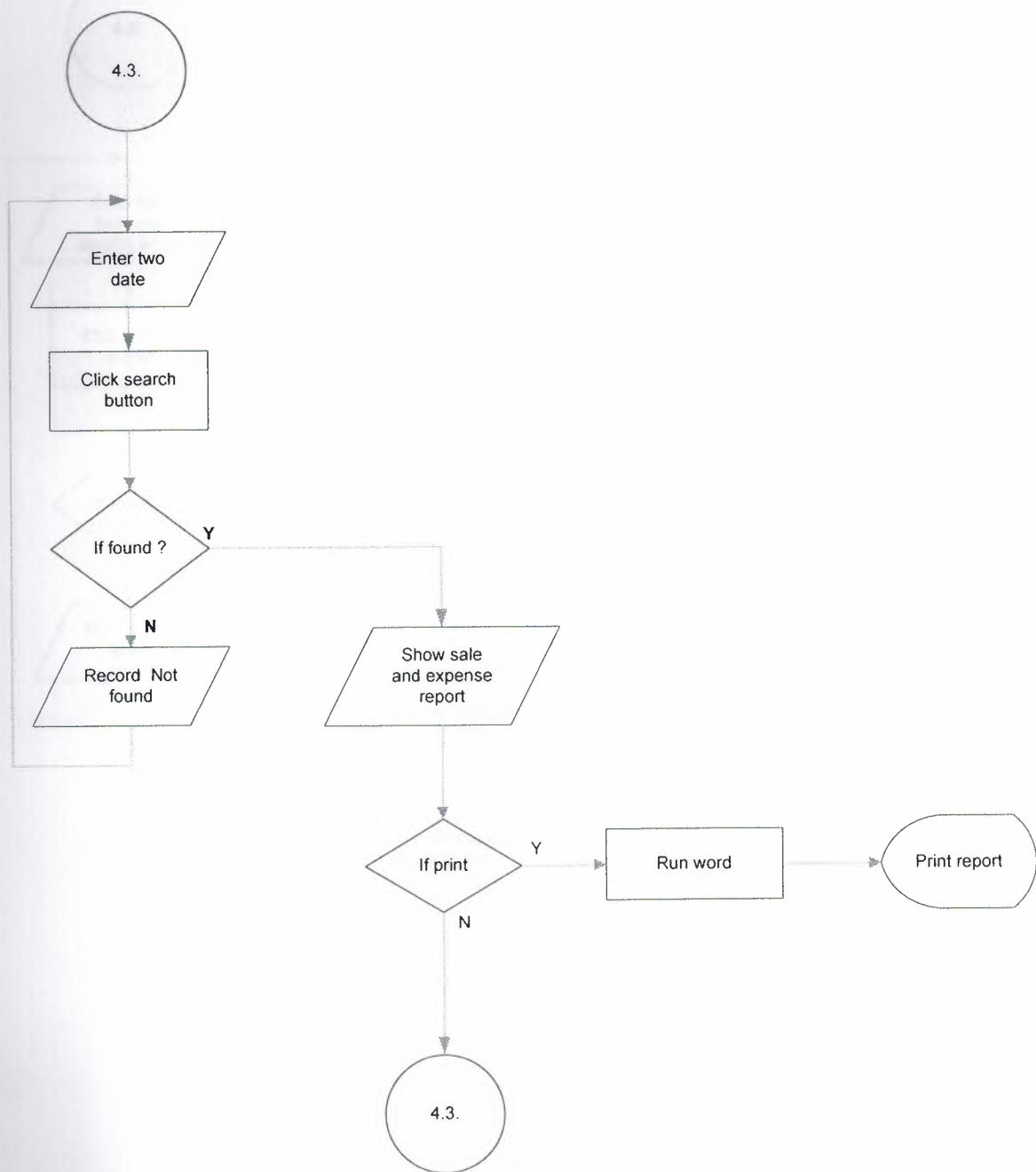
4.1.EXPENDITURE REPORTS



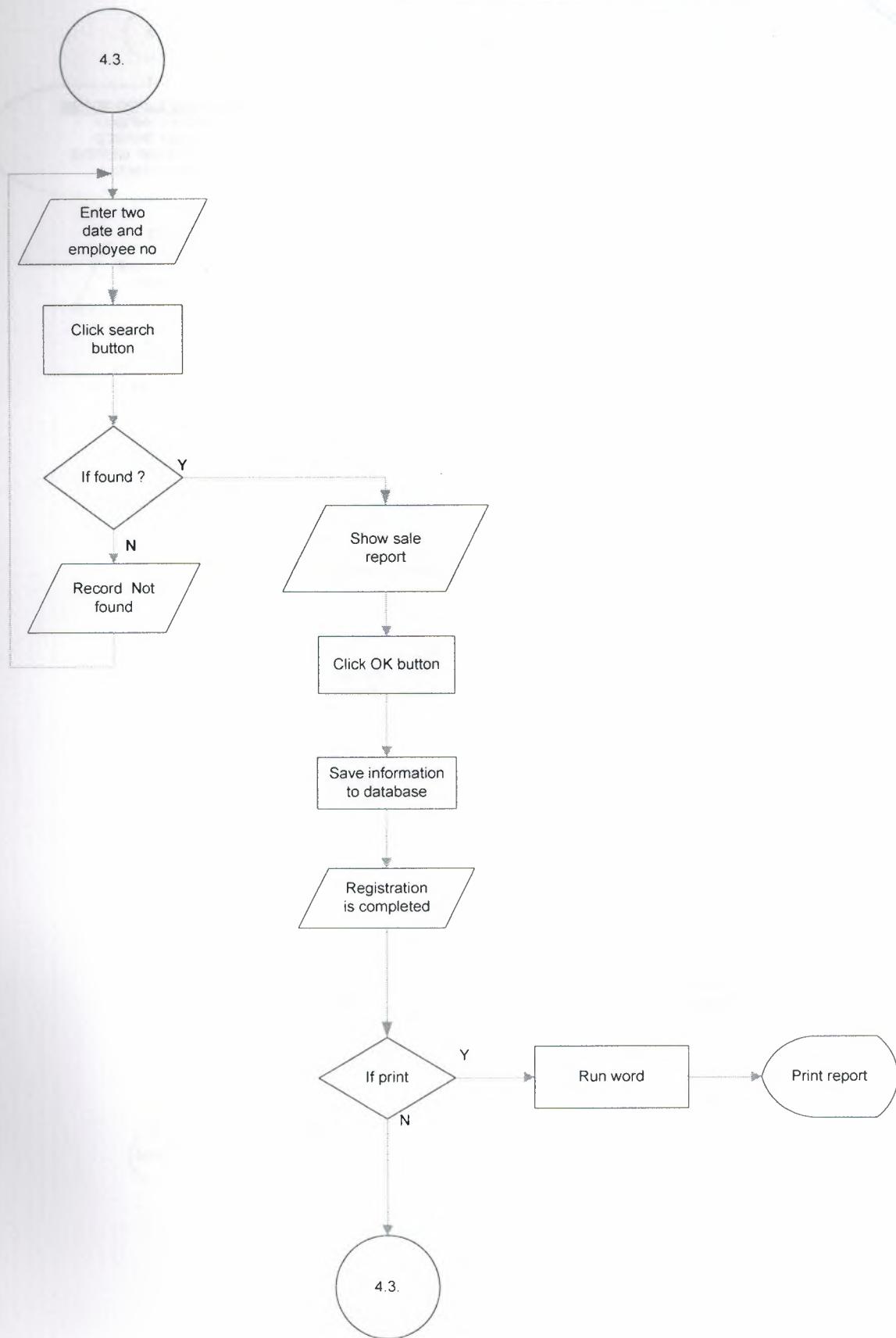
4.2.EMPLOYEE REPORTS



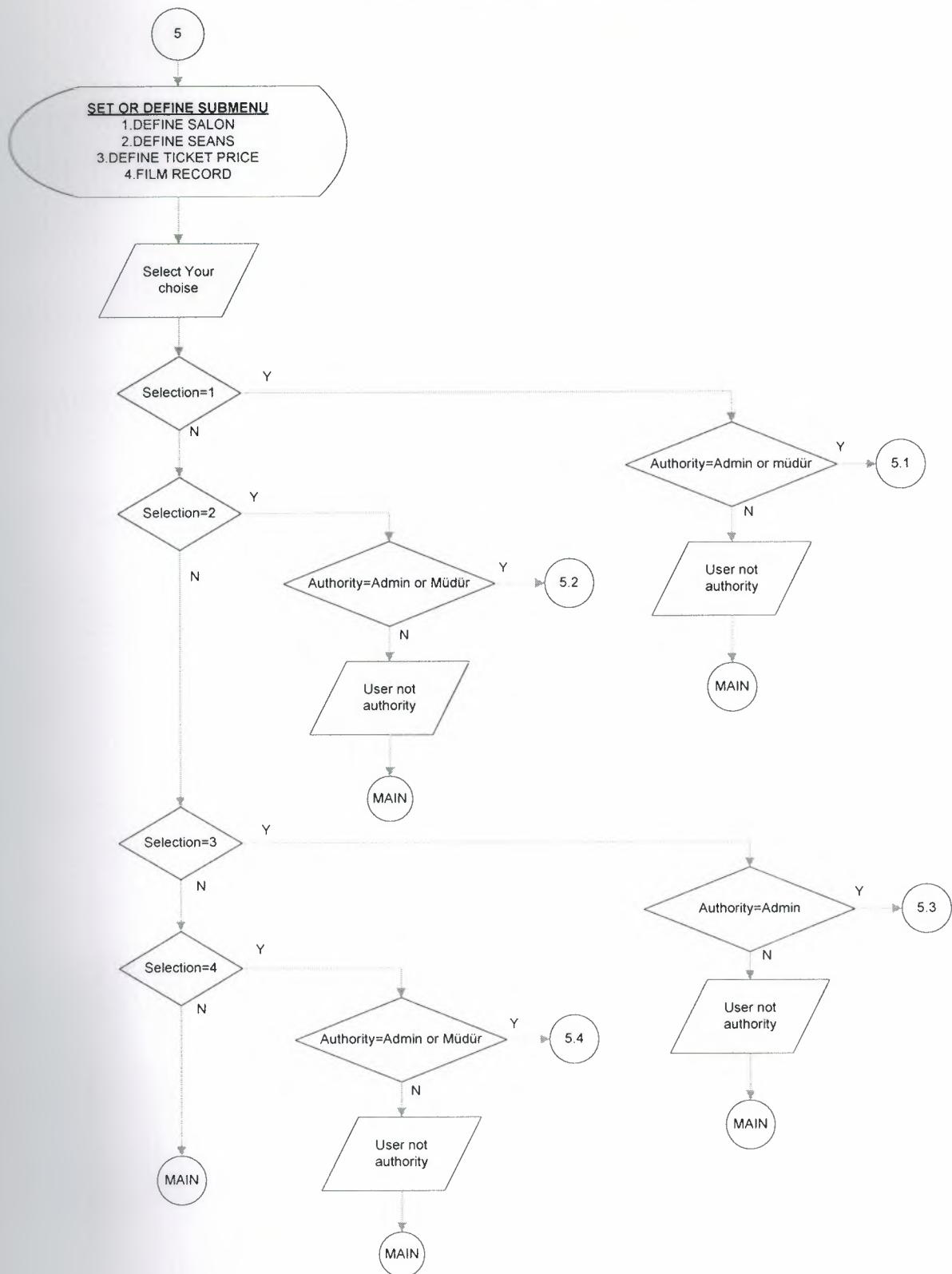
4.3.INCOME AND EXPENSE REPORTS



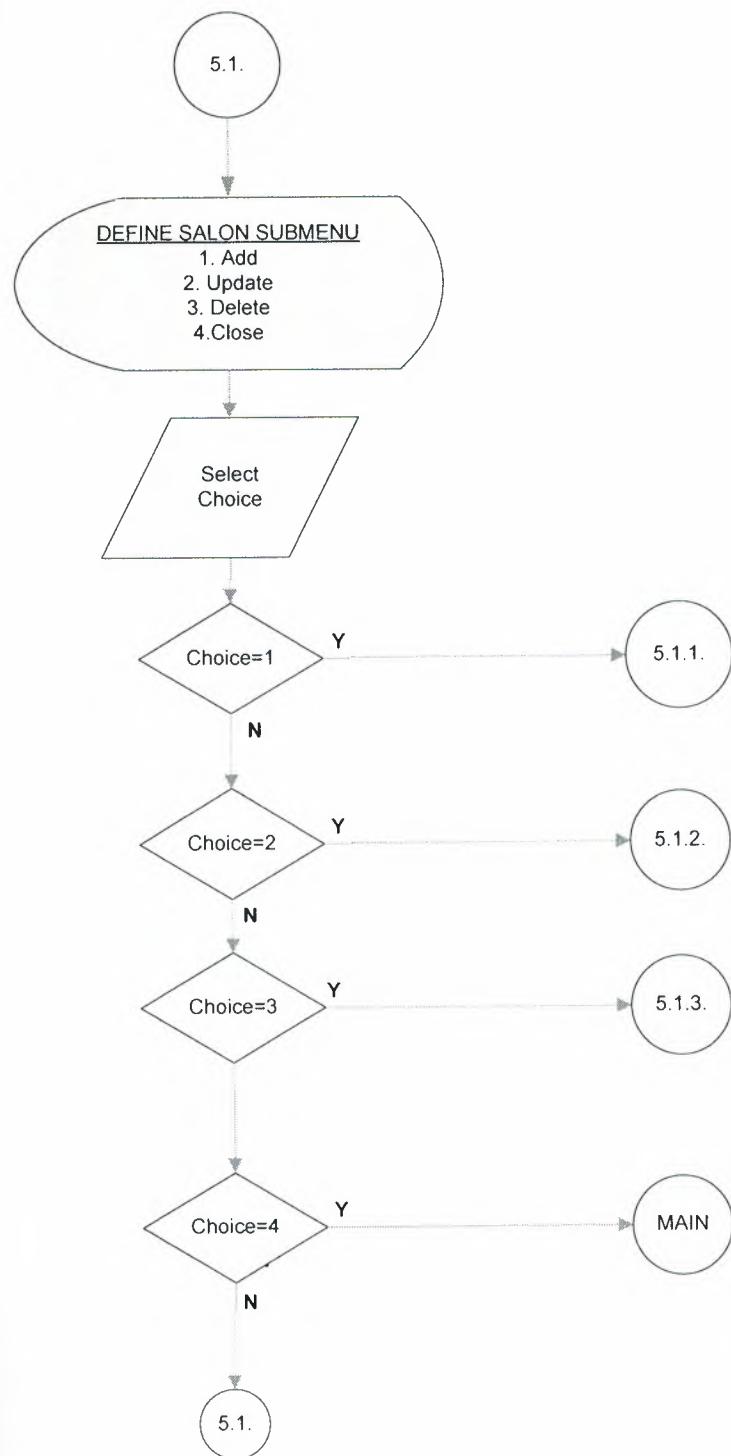
4.4.END DAY REPORT



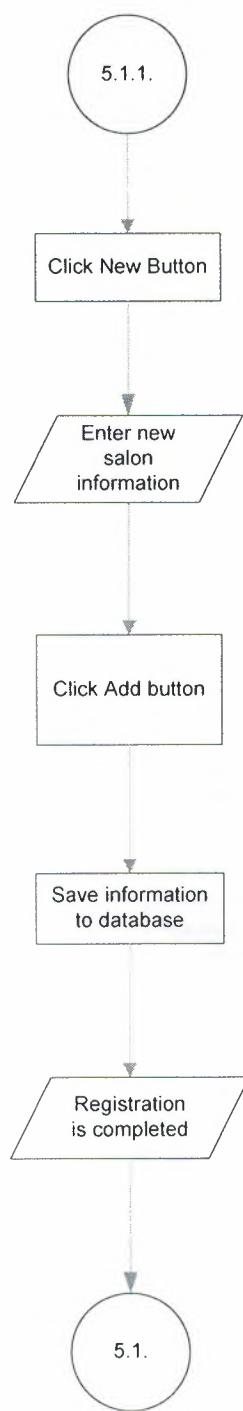
5.SET OR DEFINE



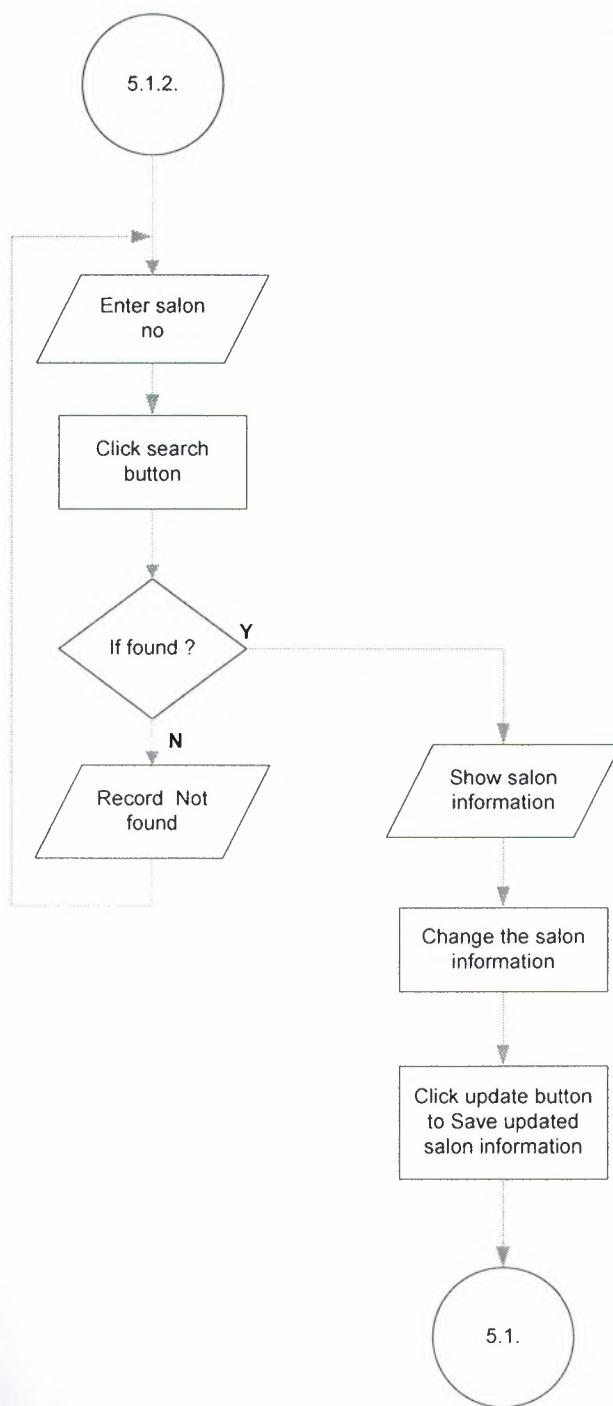
5.1.DEFINE SALON



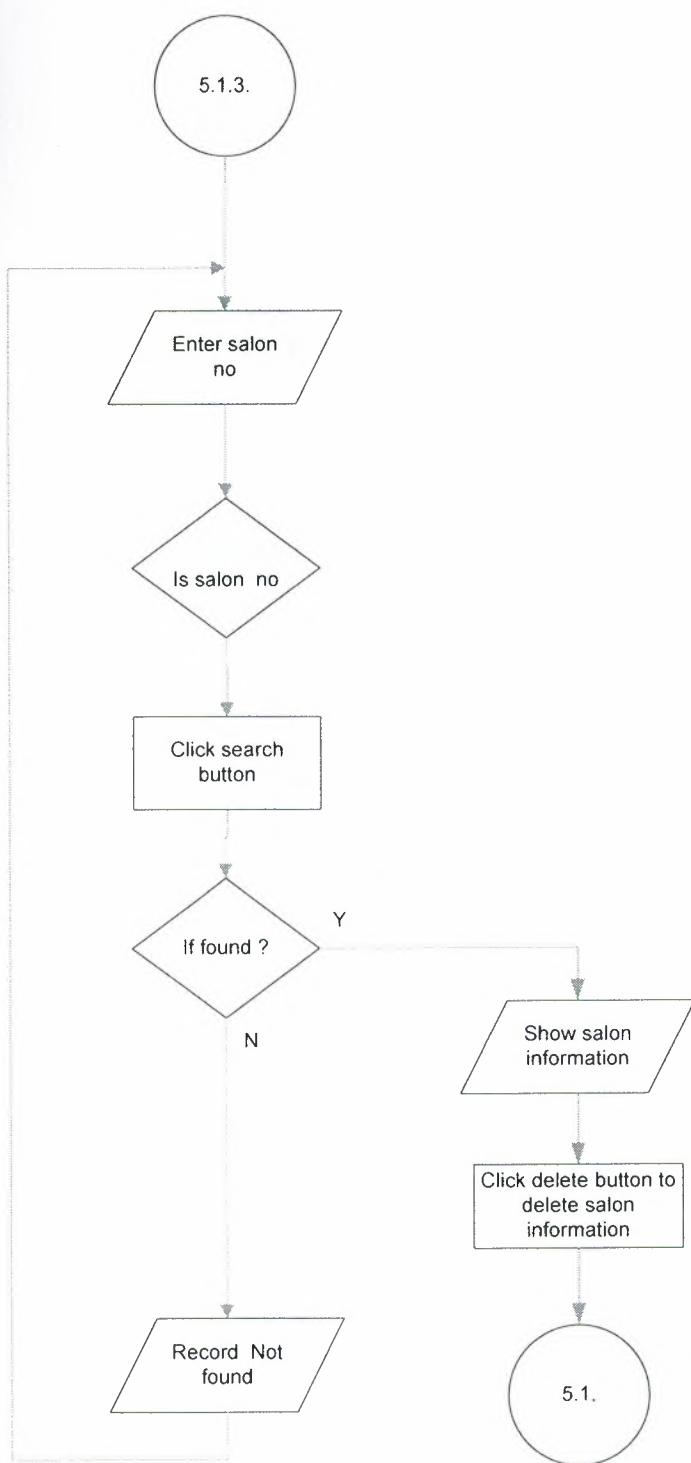
5.1.1. DEFINE SALON ADD



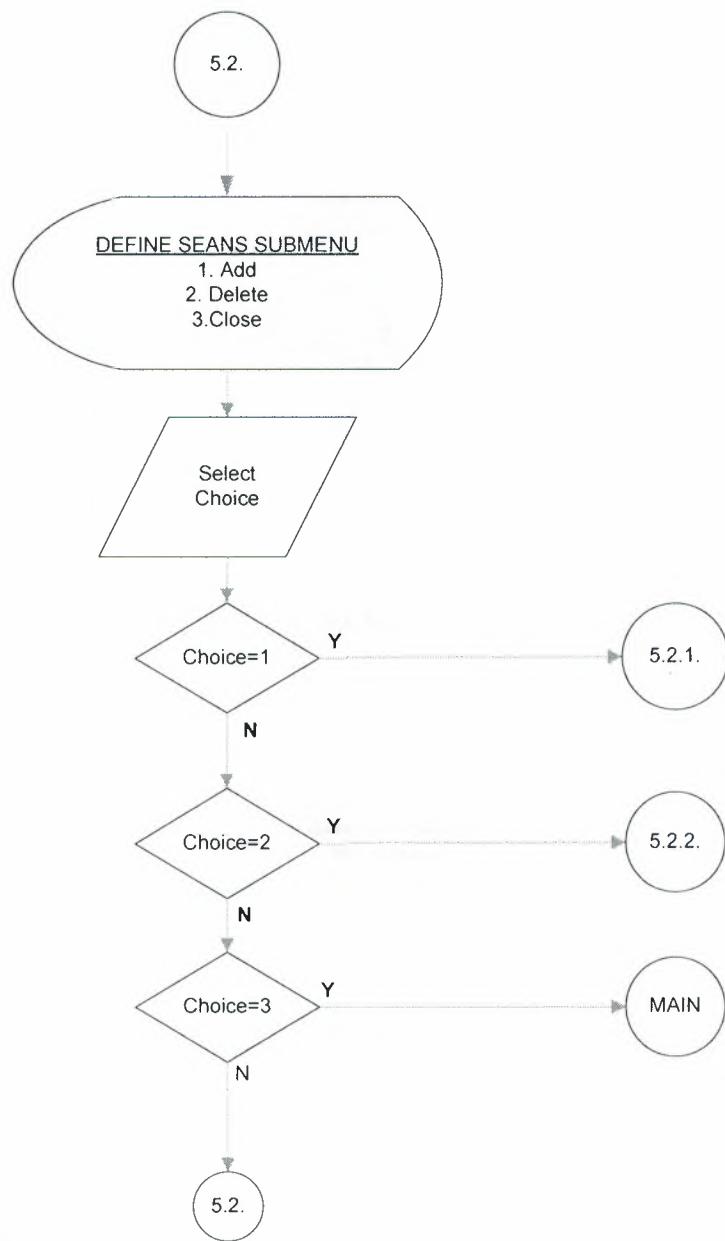
5.1.2.DEFINE SALON UPDATE



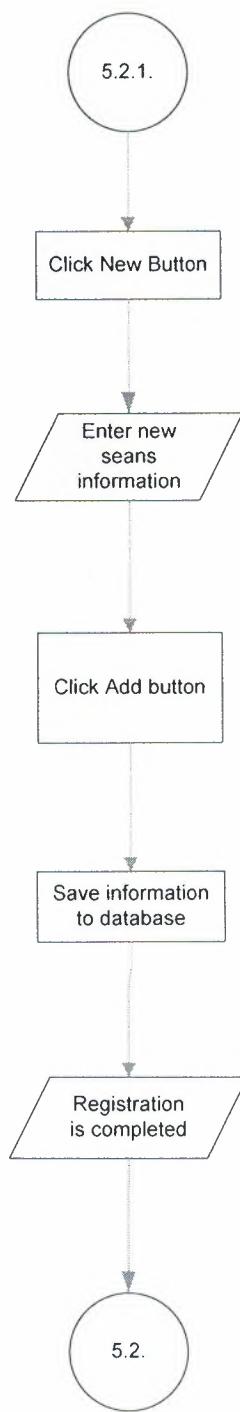
5.1.3.DEFINE SALON DELETE



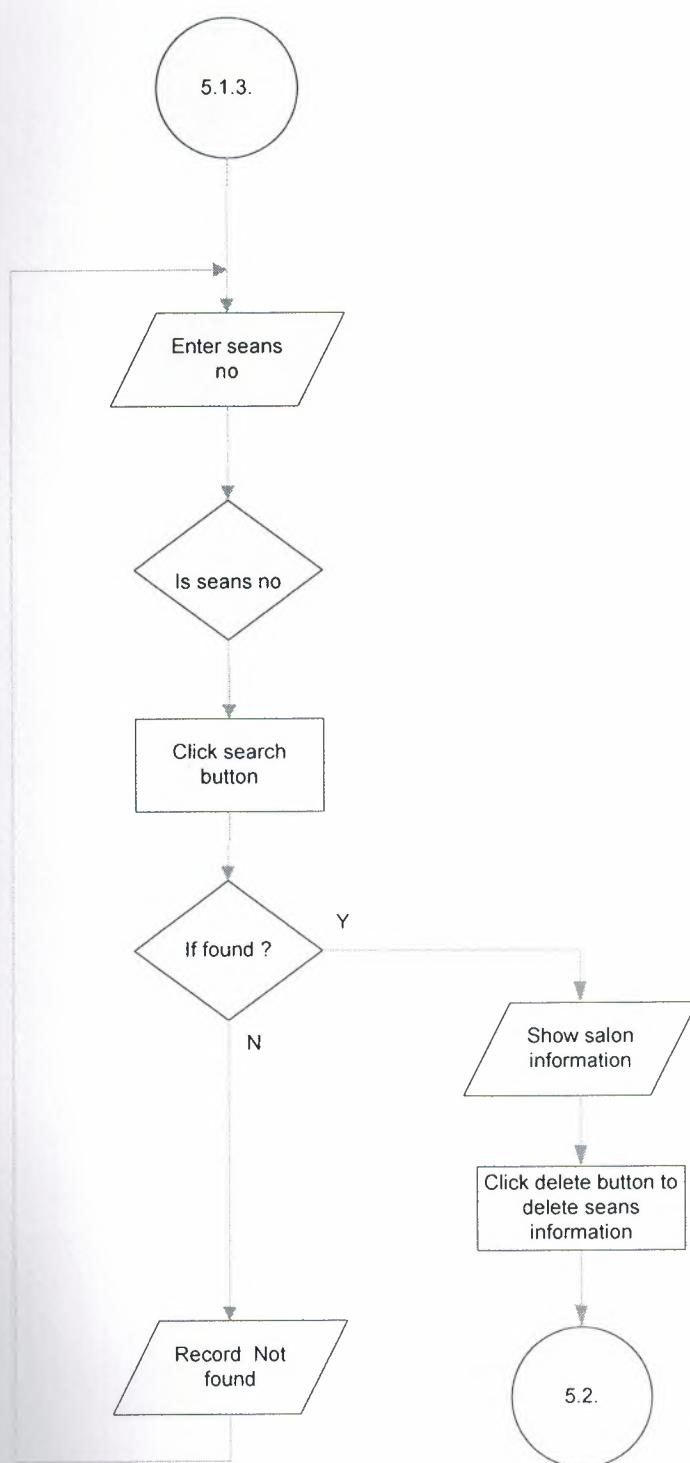
5.2.DEFINE SEANS



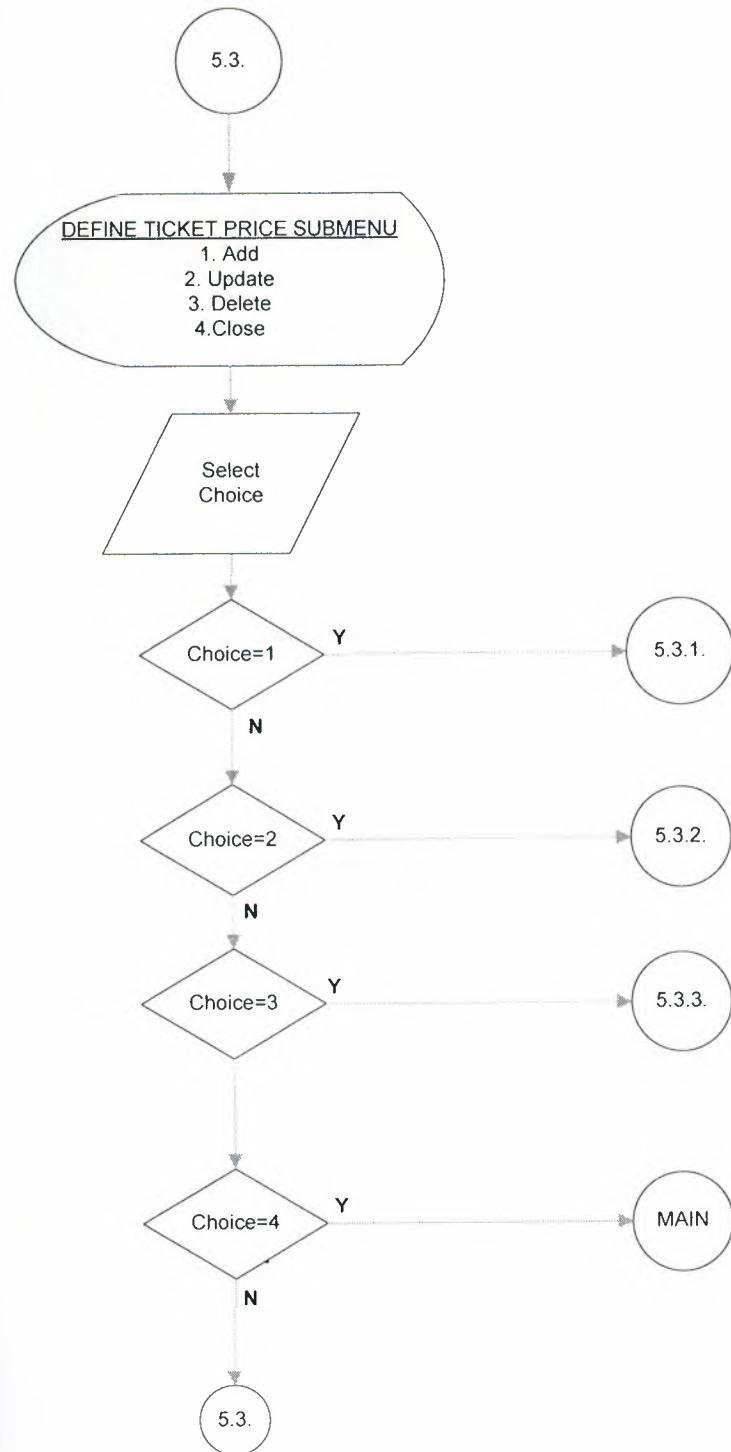
5.2.1. DEFINE SEANS ADD



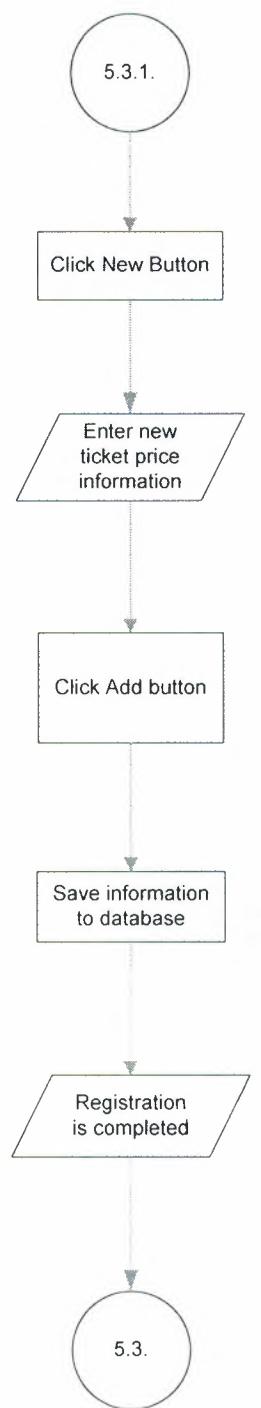
5.2.2.DEFINE SEANS DELETE



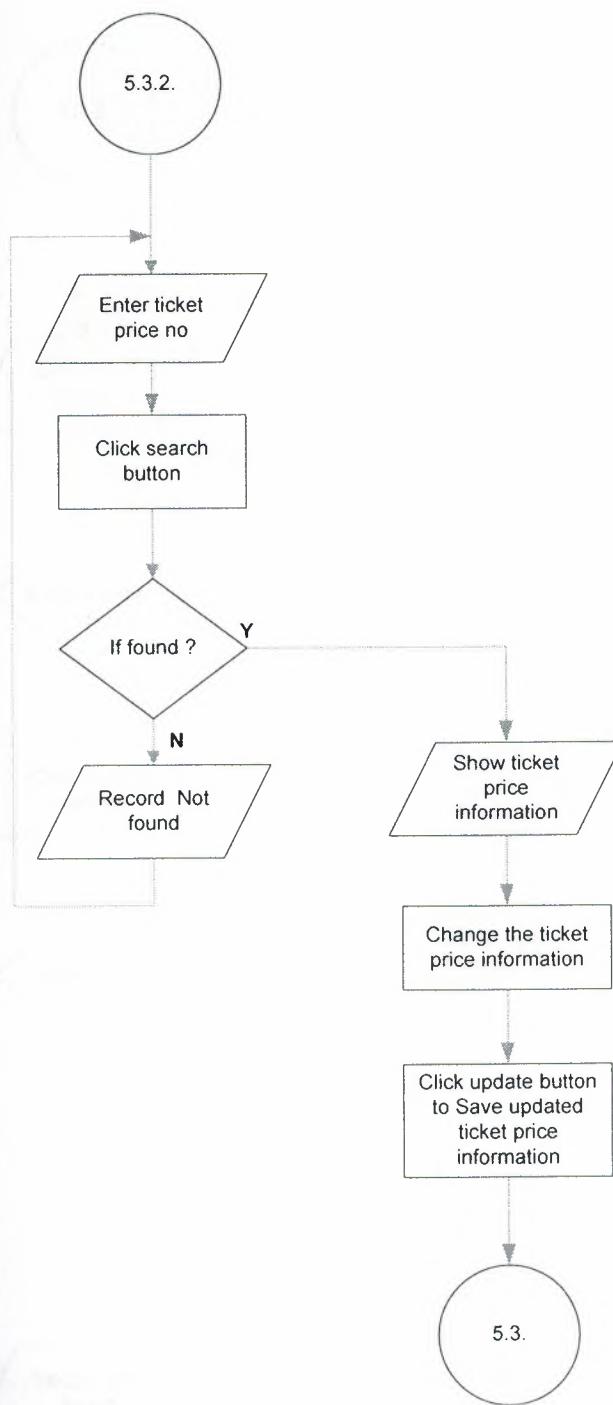
5.3.DEFINE TICKET PRICE



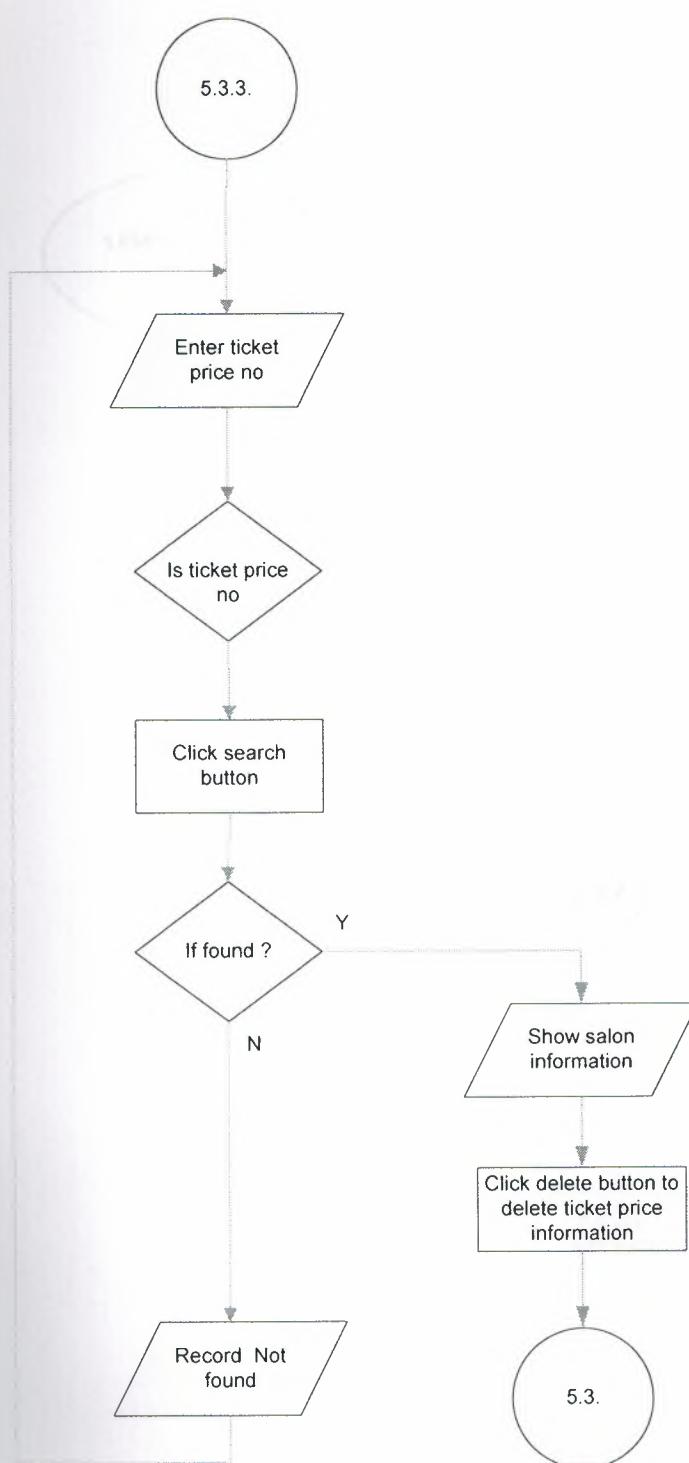
5.3.1. DEFINE TICKET PRICE ADD



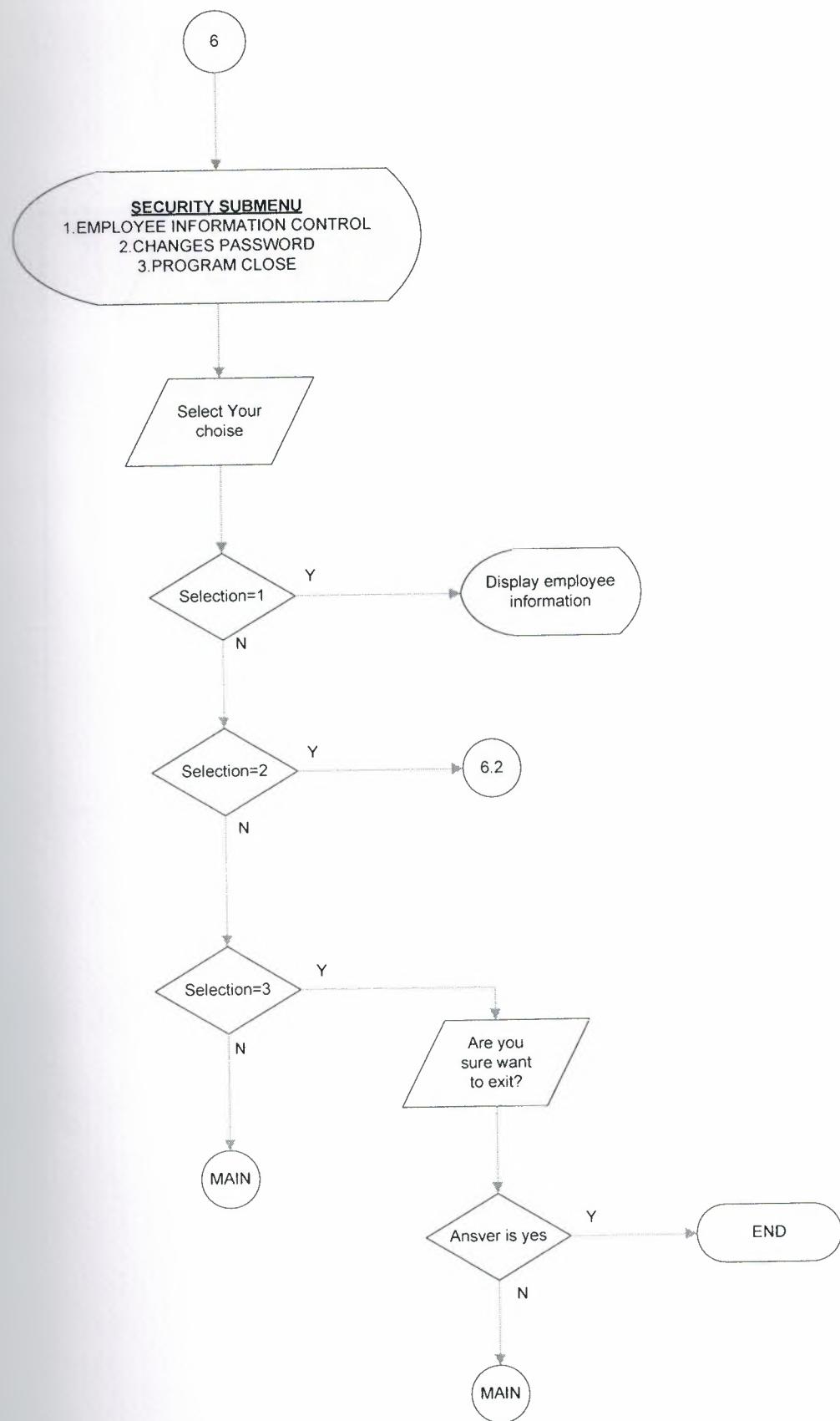
5.3.2.DEFINE TICKET PRICE UPDATE



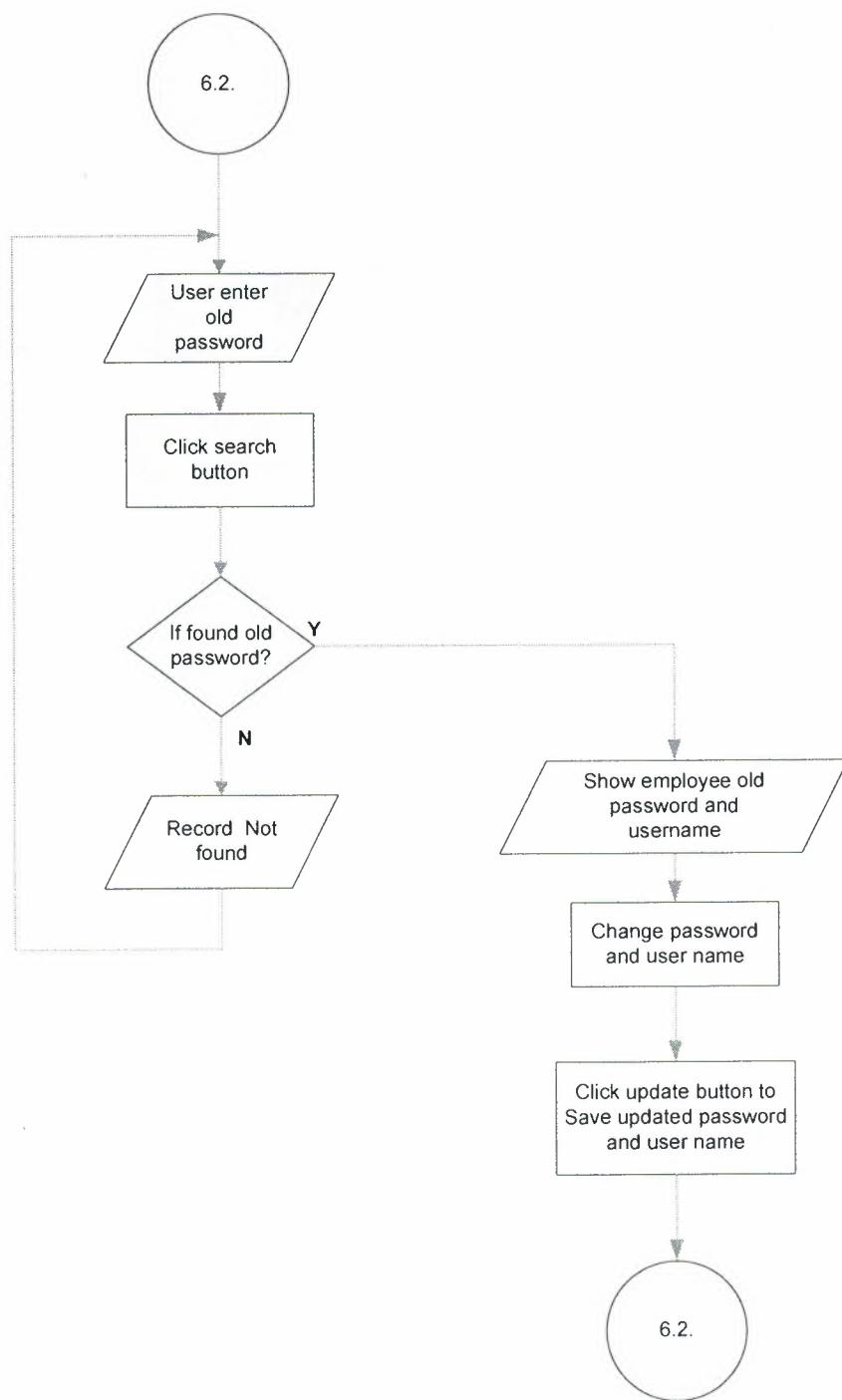
5.3.3.DEFINE TICKET PRICE DELETE



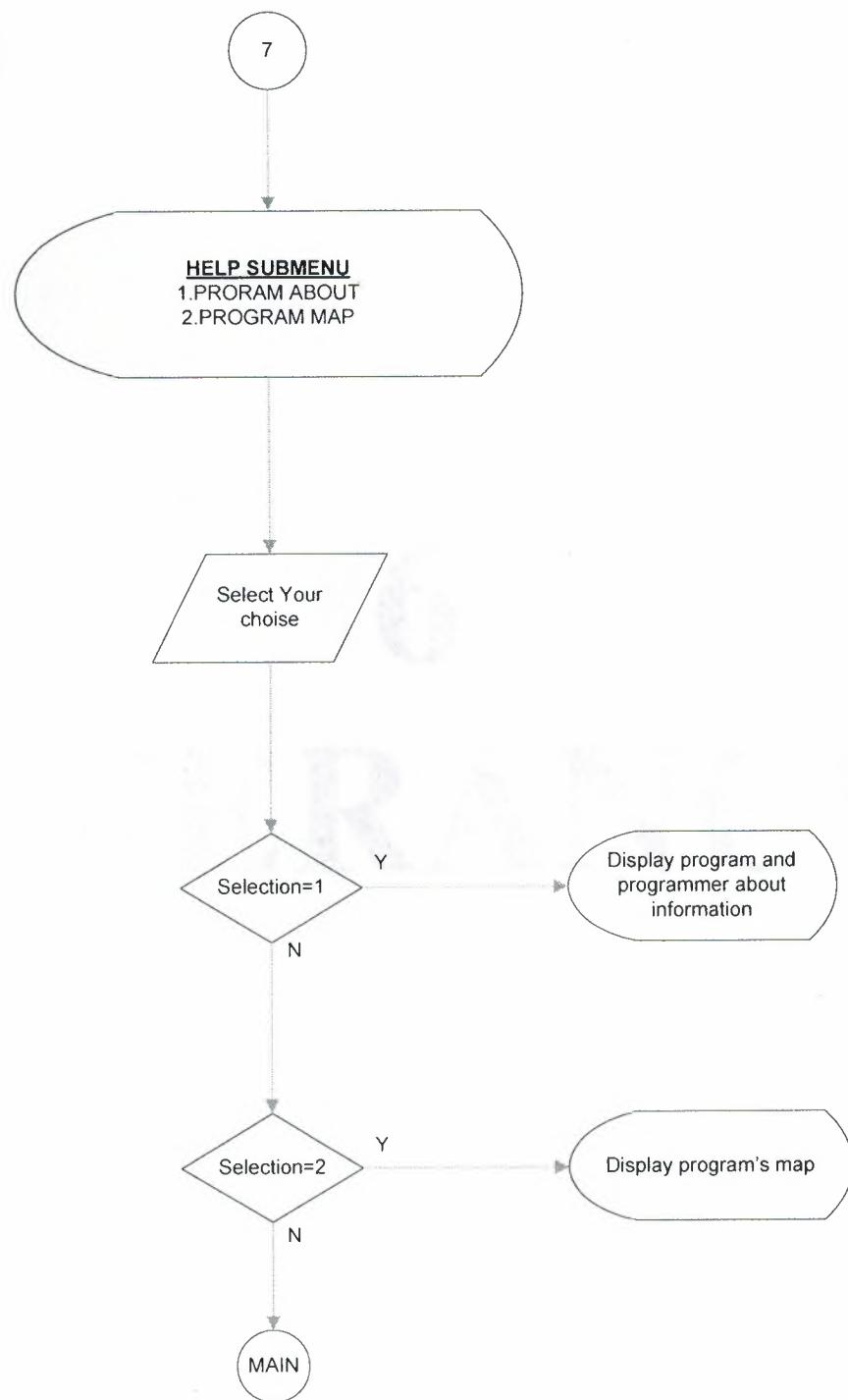
6.SECURITY



6.2.CHANGES PASSWORD



7.HELP



6

REFERANCES

REFERANCES

1.

I use only internet for researching. www.google.com

2.

SQL BOOK (Written by James R.Groff and Paul N.Weinberg)

3.

Borland DELPHI 7 (Written by İhsan KARAGÜLLE)

APPENDIX I

SCREEN OUTPUTS



FIGURE 1.

DIRECTOR MAIN MENU



FIGURE 2.

CHIEF MAIN MENU



FIGURE 3.

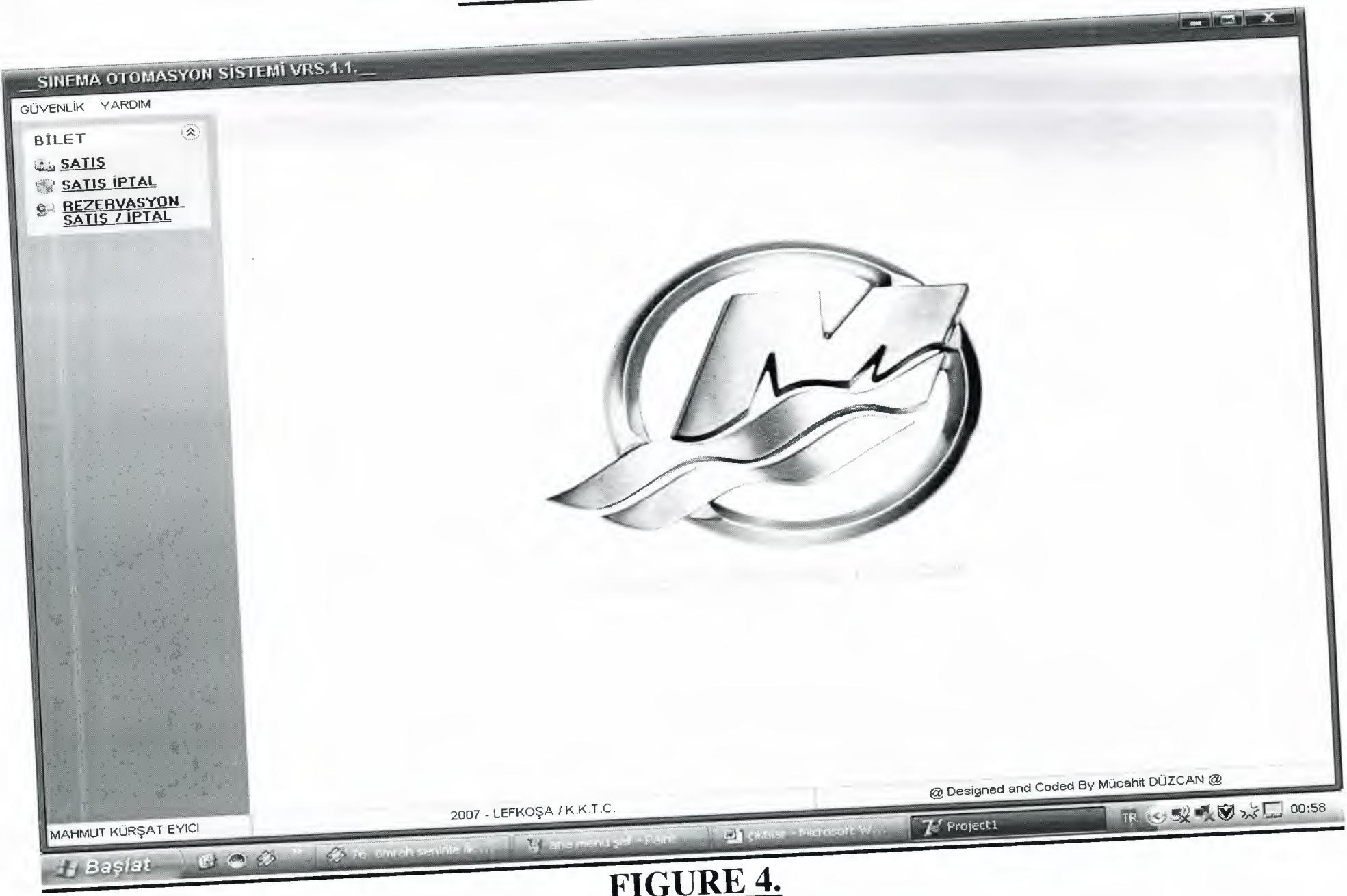


FIGURE 4.

TICKET SALE

1.1. SINEMA OTOMASYON SİSTEMİ VRS.

GÜVENLİK VARDIM

BİLET SATIŞ FORMU

Haziran, 2007

	SEANS_NO	TARİH	SEANS_HAREKET_NO	FİLM_ADI	SEANS_SAAT	SALON_NO
	117	25.06.2007	22	PARS	13:00:00	7
	133	25.06.2007	18	GORA	19:00:00	9
	150	25.06.2007	26	ESARETİN BEDELİ	19:00:00	2

Pzt	Sal	Çar	Per	Cum	Cmt	Paz
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

SİVİL SAYISI 2 J15
J16

ÖĞRENCİ SAYISI 3 I16
I17
H17

SATIŞ ONAYLA

REZERVE KAYIT

KLAVYE

A1 B1 D1 E1 F1 G1 H1 I1 J1 K1 L1 M1 N1
 B2 D2 E2 F2 G2 H2 I2 J2 K2 L2 M2 N2
 B3 D3 E3 F3 G3 H3 I3 J3 K3 L3 M3 N3
 A4 B4 D4 E4 F4 G4 H4 I4 J4 K4 L4 M4 N4
 A5 B5 D5 E5 F5 G5 H5 I5 J5 K5 L5 M5 N5
 A6 B6 D6 E6 F6 G6 H6 I6 J6 K6 L6 M6 N6
 A7 B7 C7 D7 E7 F7 G7 H7 I7 J7 K7 L7 M7 N7
 A8 B8 C8 D8 E8 F8 G8 H8 I8 J8 K8 L8 M8 N8
 A9 B9 C9 D9 E9 F9 G9 H9 I9 J9 K9 L9 M9 N9
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 A12 C12 D12 E12 F12 G12 H12 I12 J12 K12 L12 M12 N12
 A13 D13 E13 F13 G13 H13 I13 J13 K13 L13 M13 N13
 A14 D14 E14 F14 G14 H14 I14 J14 K14 L14 M14 N14
 A15 B15 C15 D15 E15 F15 G15 H15 I15 J15 K15 L15 M15 N15
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 A20 B20 C20 D20 E20 F20 G20 H20 I20 J20 K20 L20 M20 N20

düzcan sinema 2007 - LEFKOŞA / K.K.T.C. @ Designed and Coded By Mücahit DÜZCAN @

Baslat İSL. Yıldız tab... Çıklar - Micro... Endocuments... Klasör menü... Project1 TR 01:12

FIGURE 5.

TICKET CANCEL

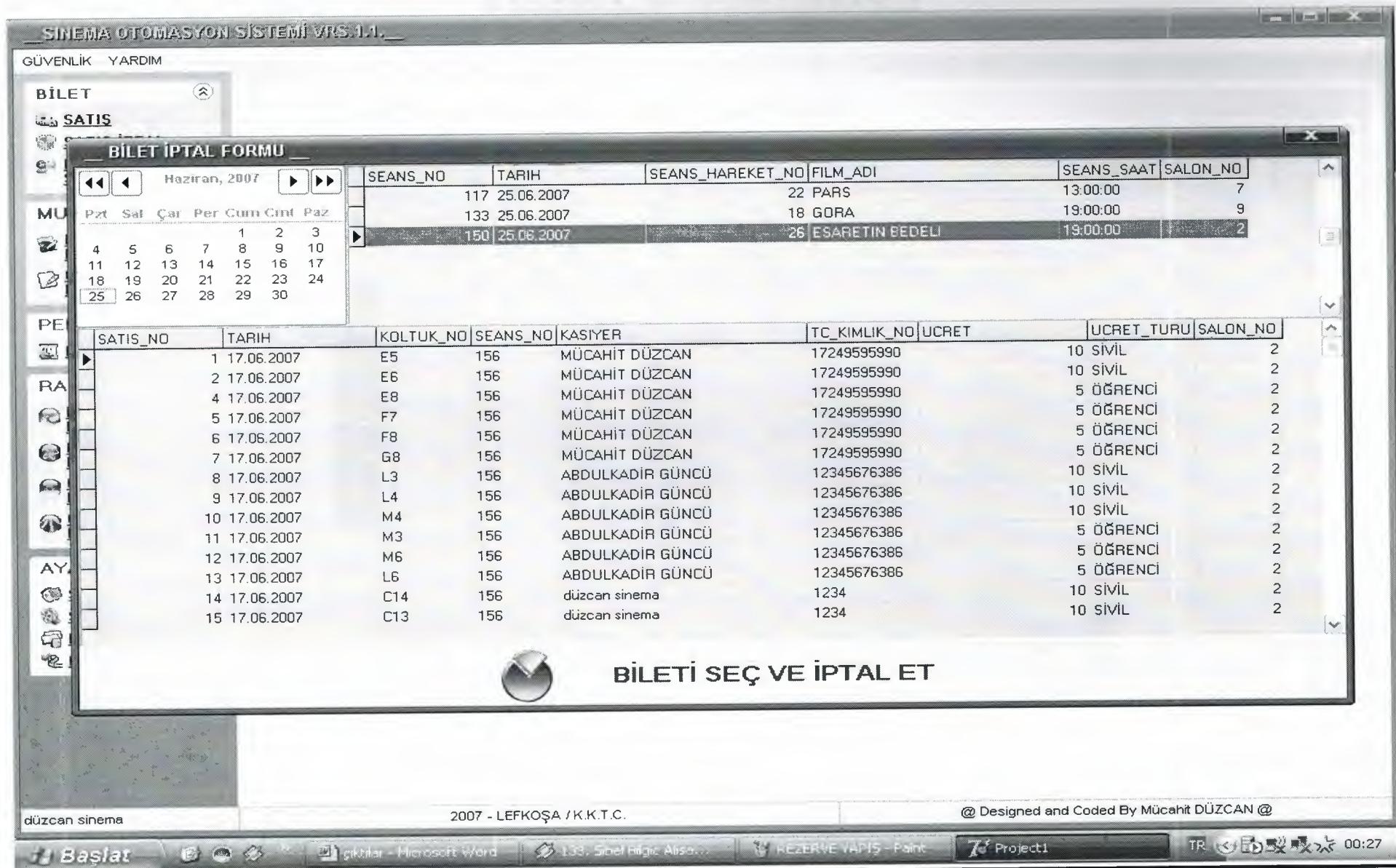


FIGURE 6.

TICKET REZERVATION

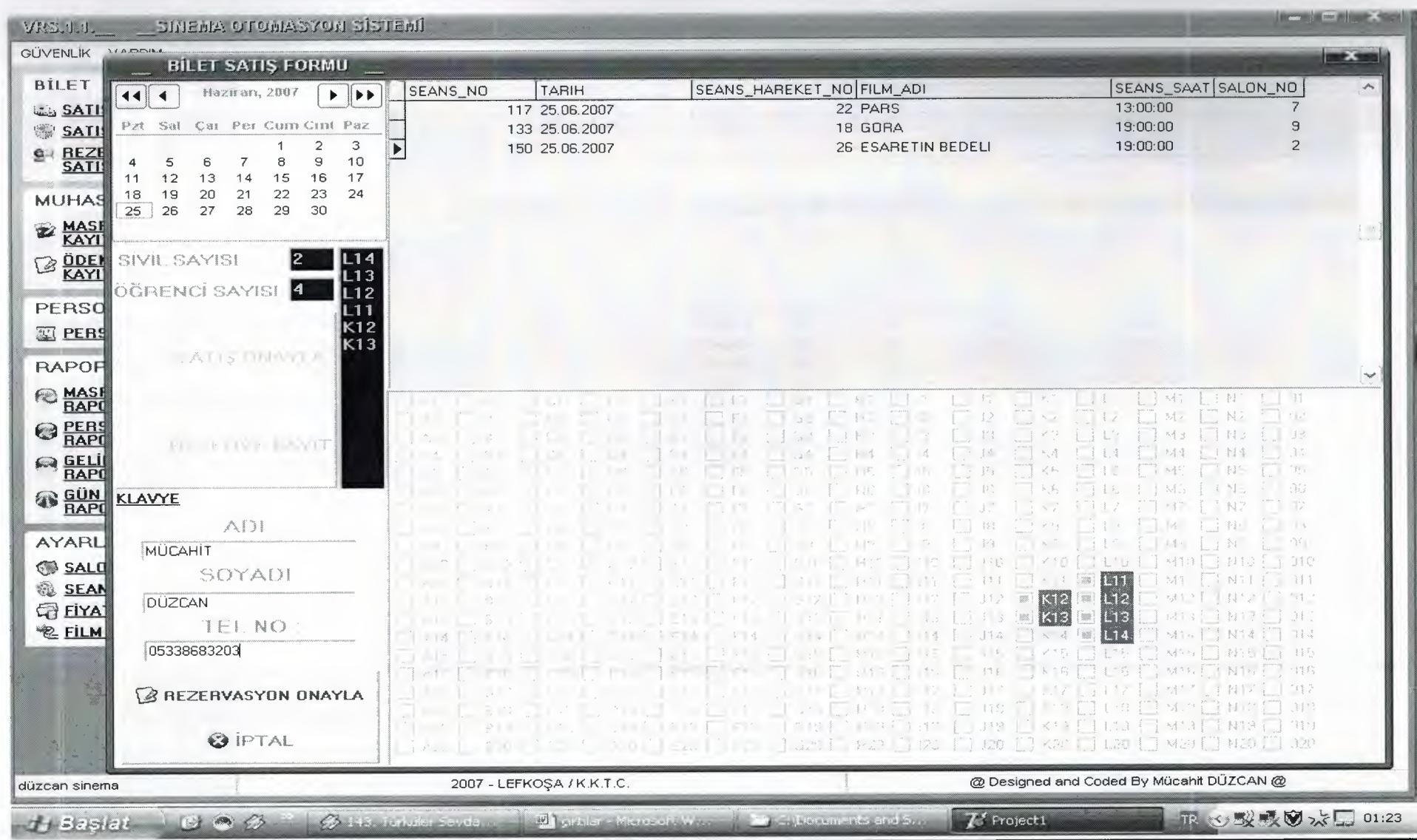


FIGURE 7.

RESERVATION SALE AND CANCEL

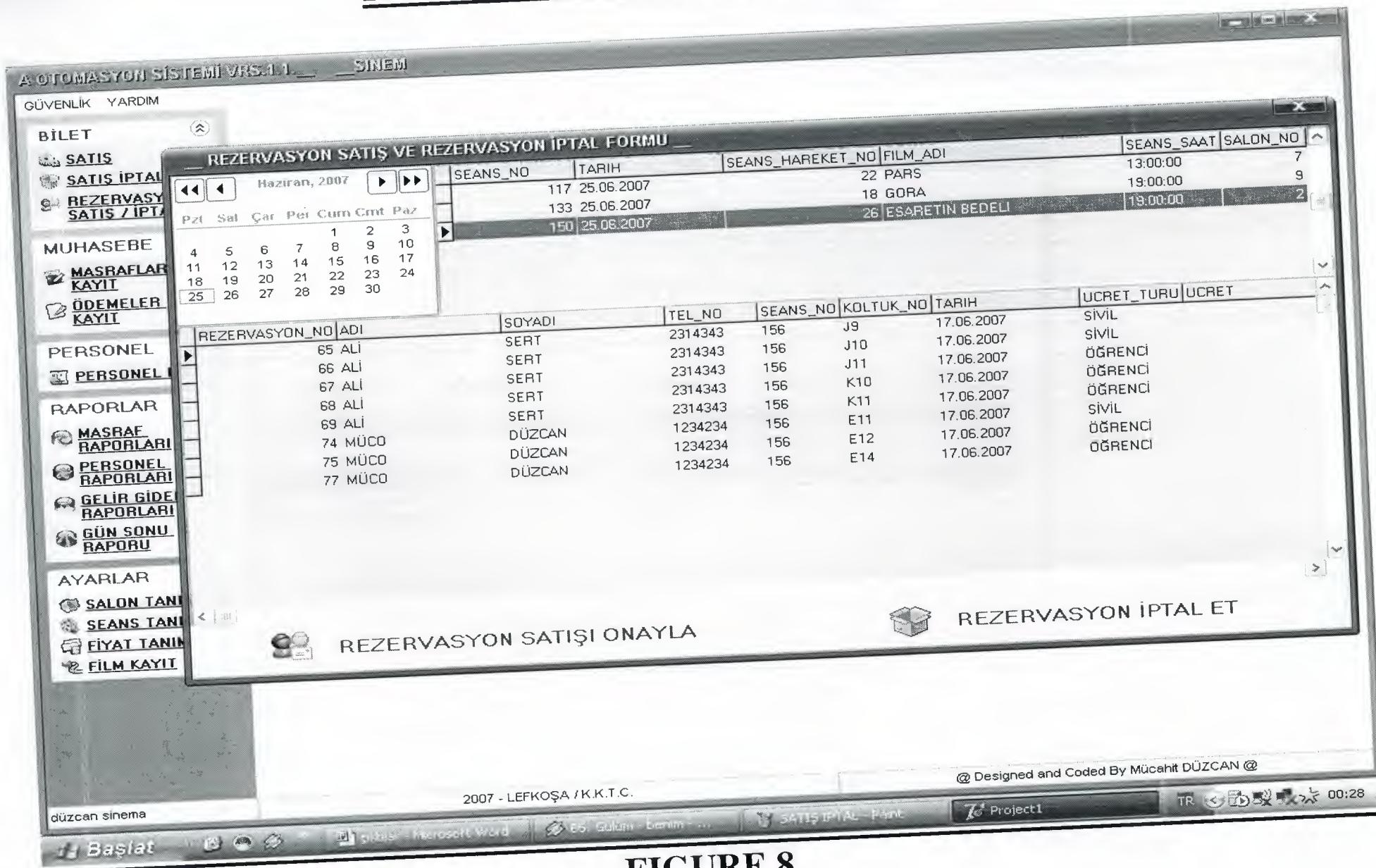


FIGURE 8.

EXPENDITURE RECORD

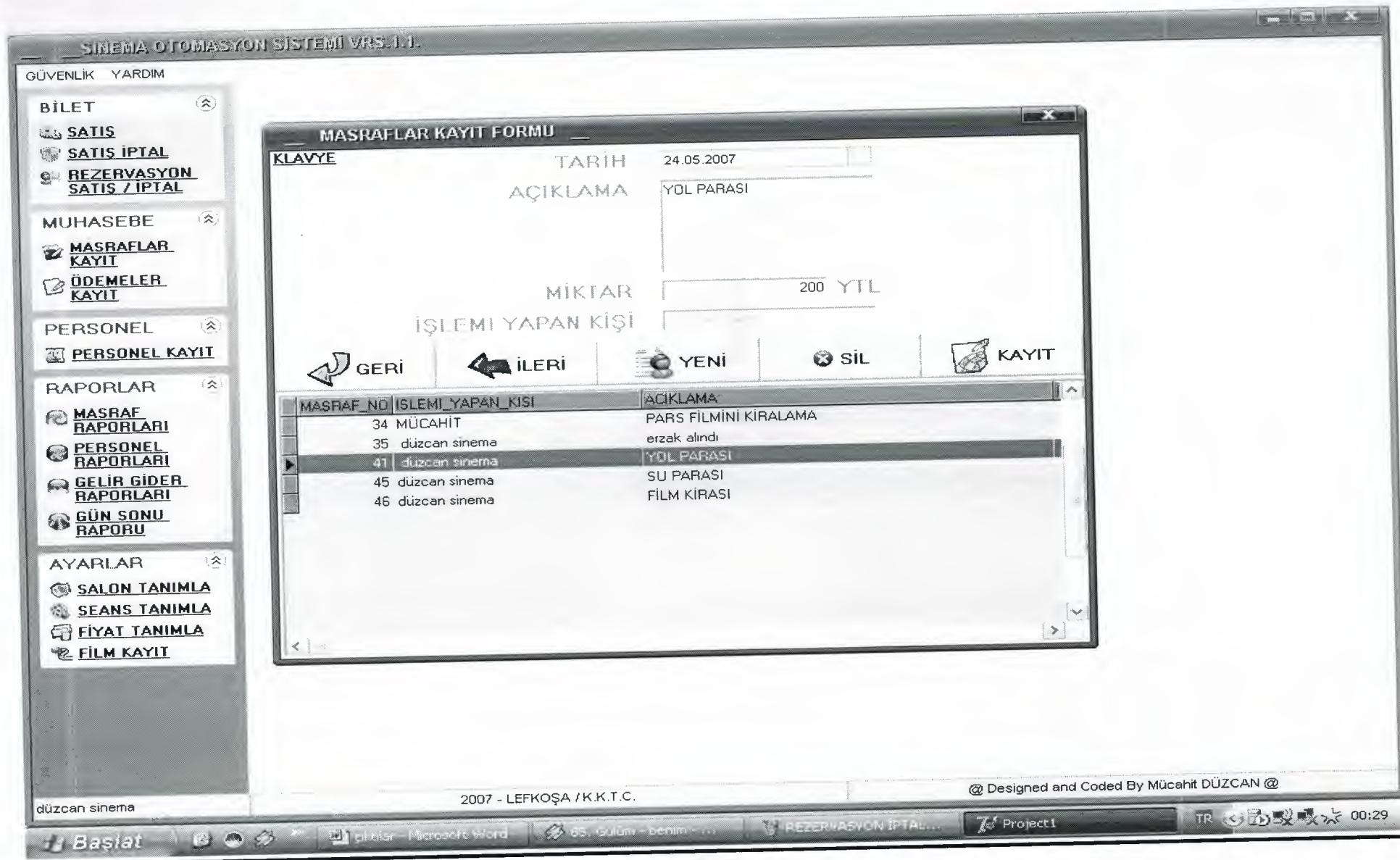


FIGURE 9.

PAYMENT RECORD (SALARY)

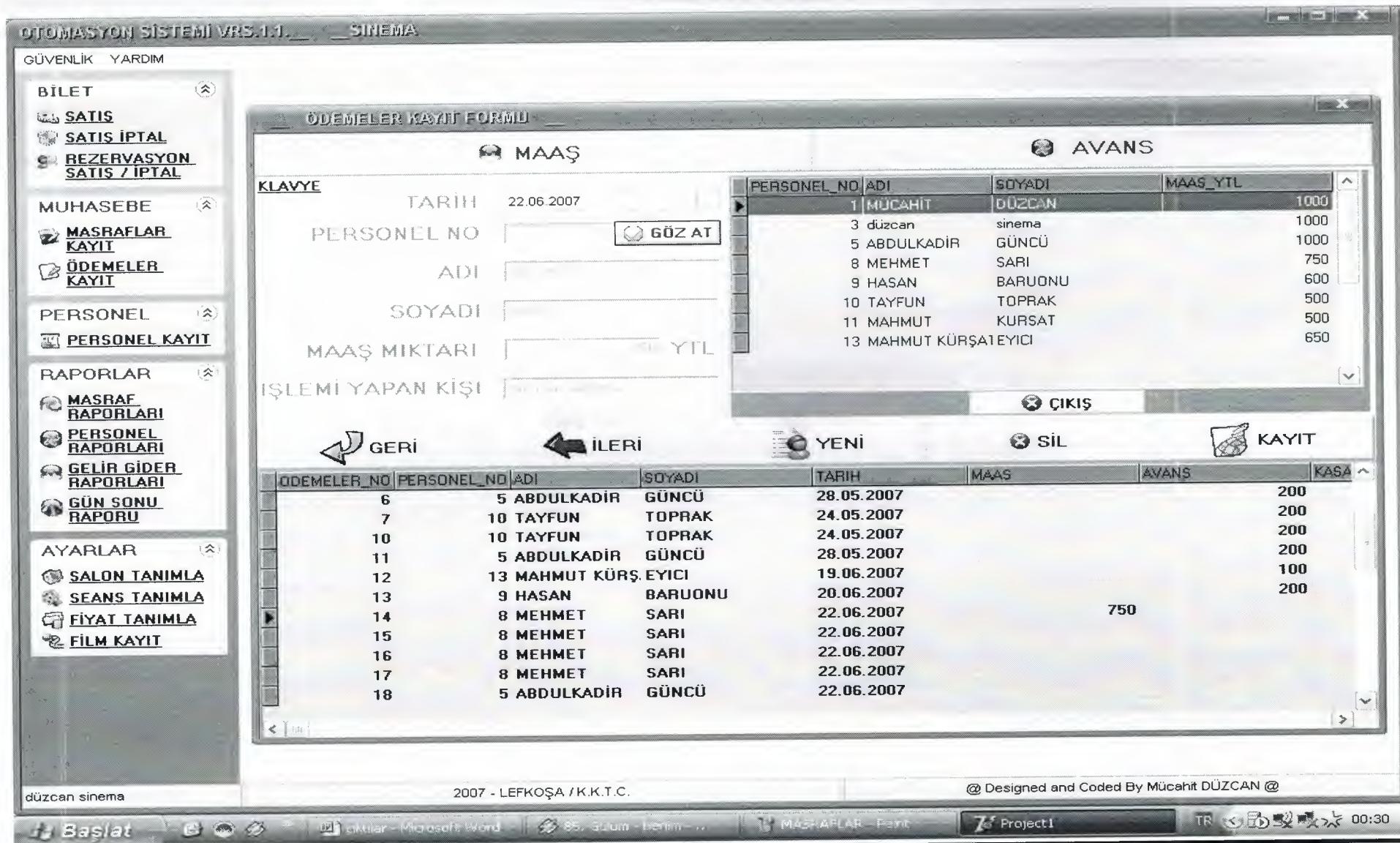


FIGURE 10.

PAYMENT RECORD (AVANCE)

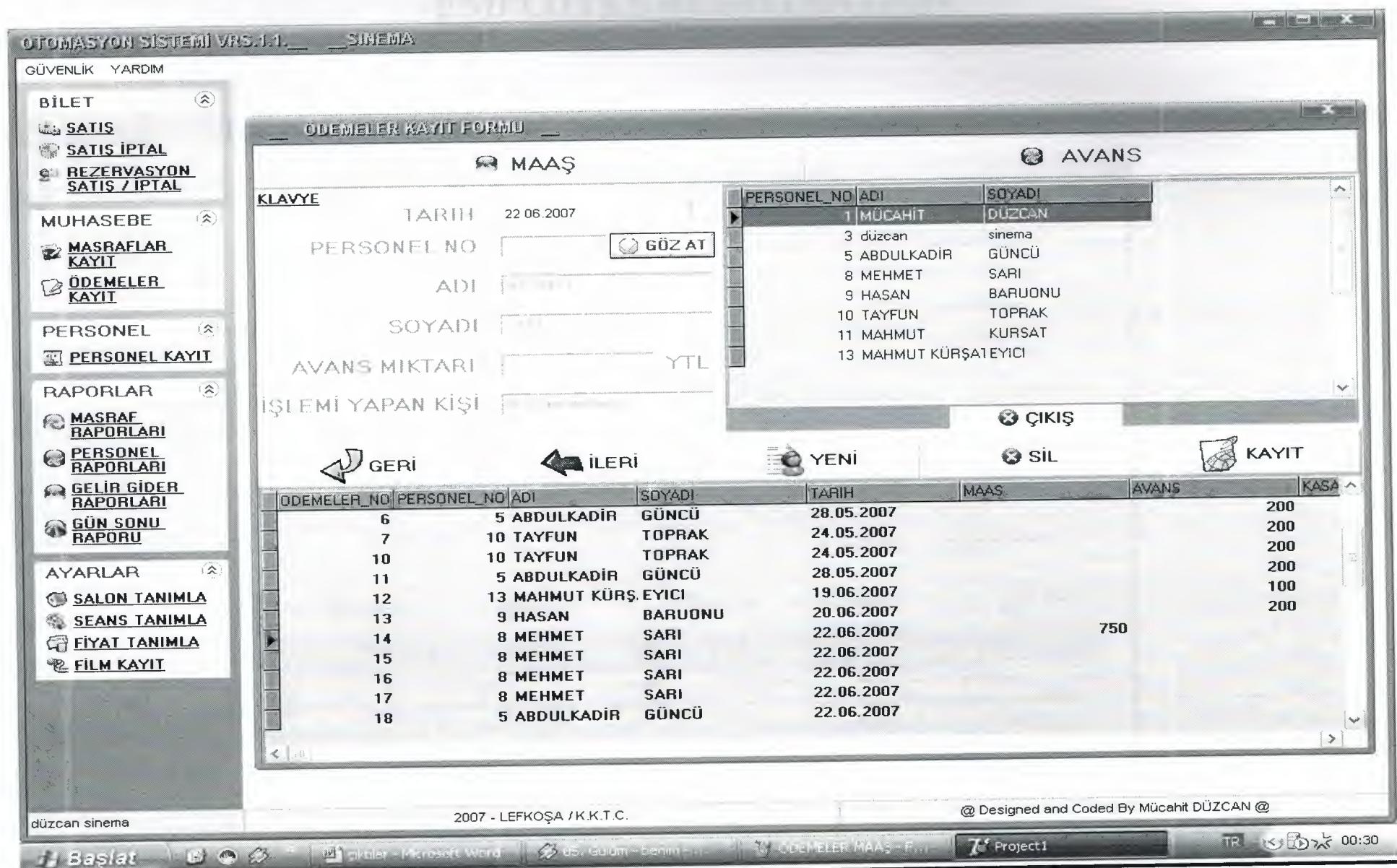


FIGURE 11.

EMPLOYEE REGISTRATION

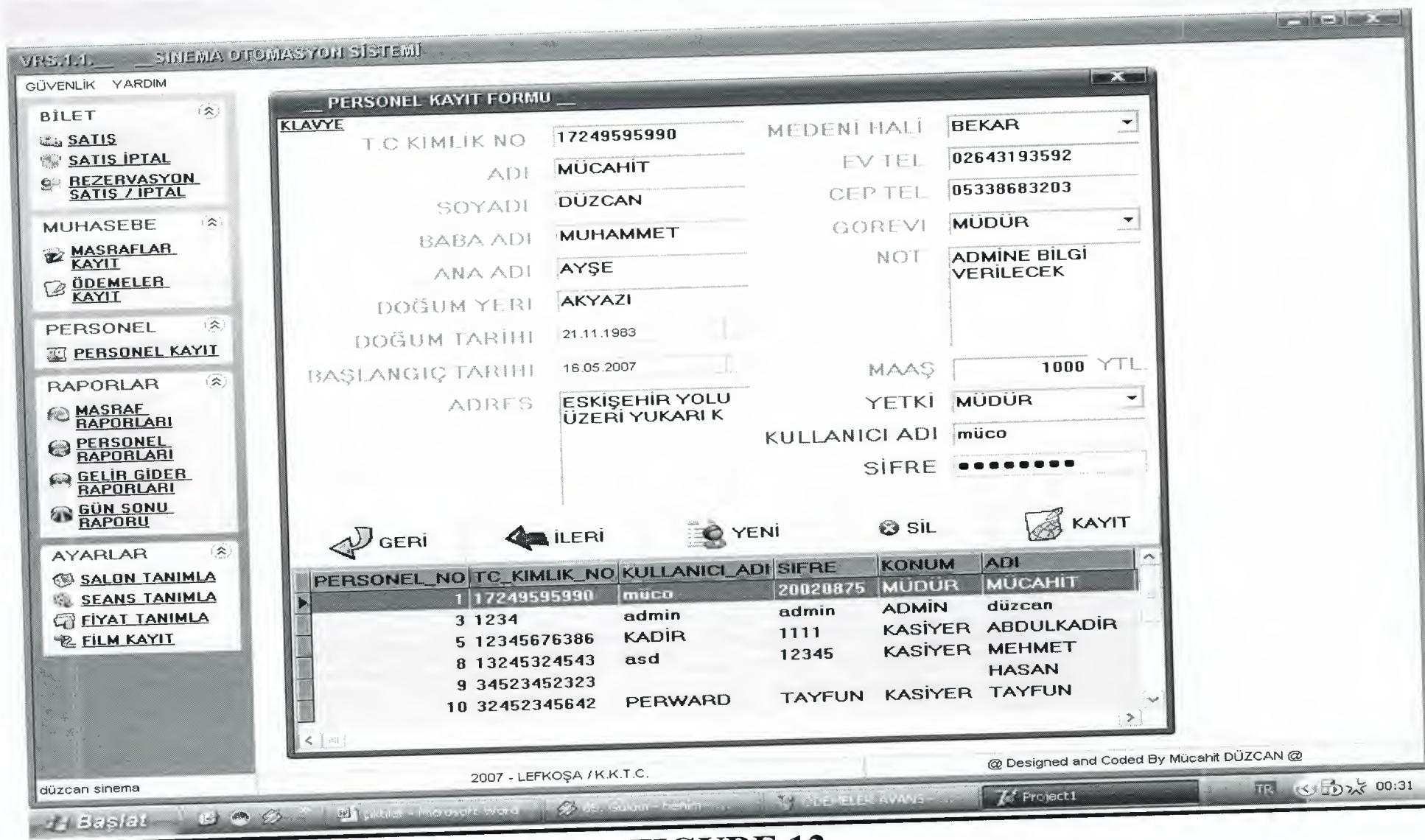


FIGURE 12.

EXPENDITURE REPORTS (ENTRY)

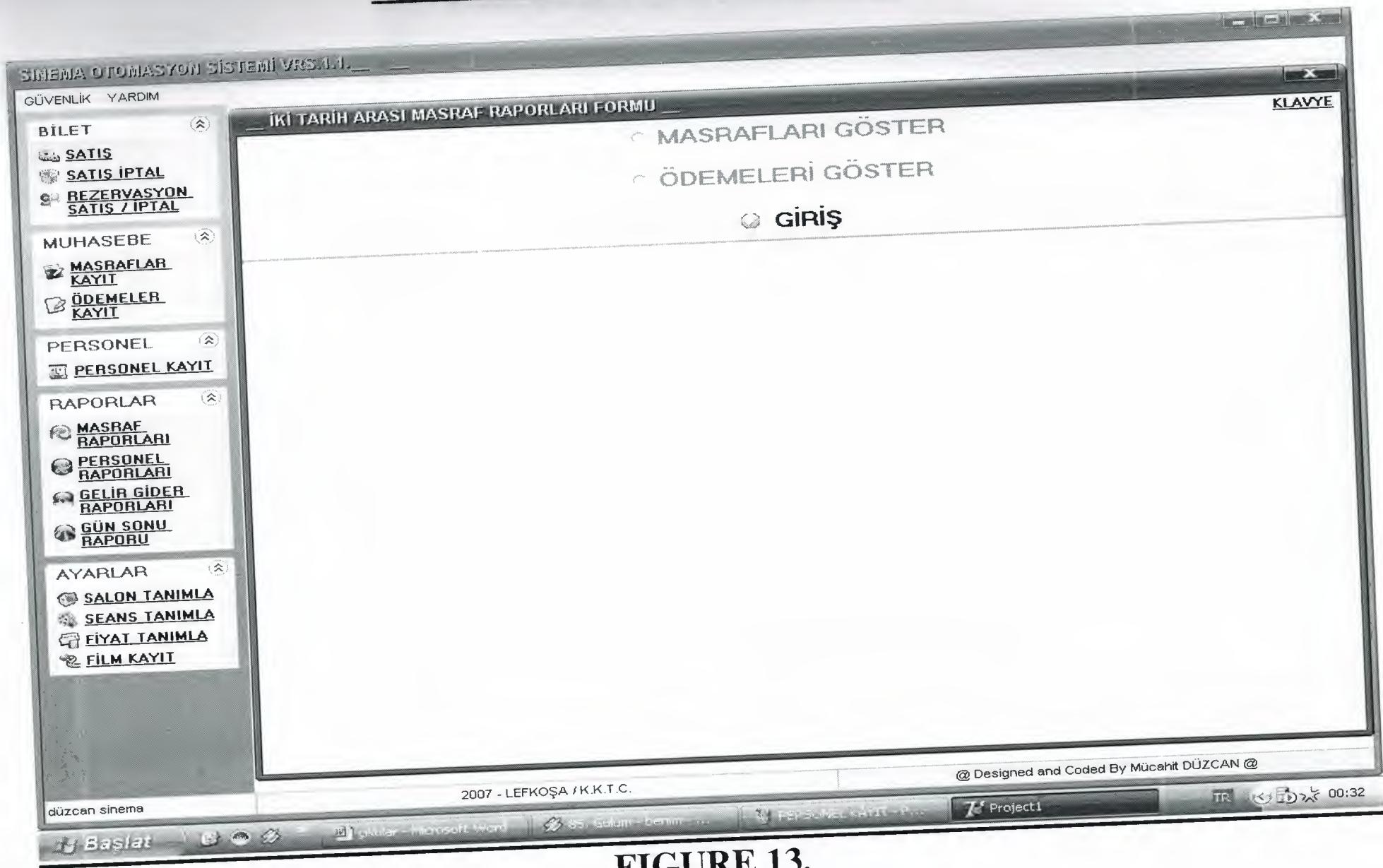


FIGURE 13.

EXPENDITURE REPORTS

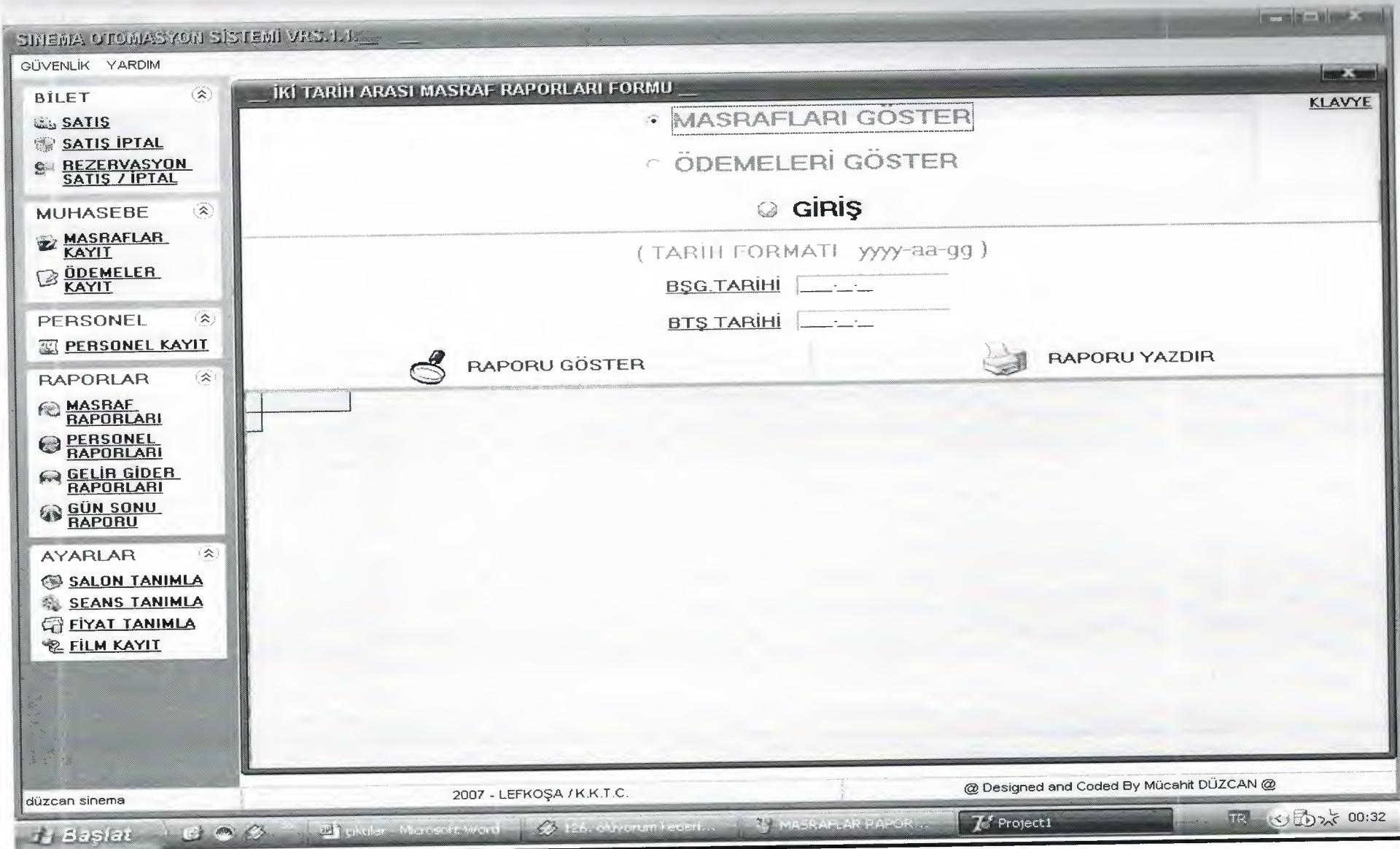


FIGURE 14.

EXPENDITURE REPORT OUT PUT

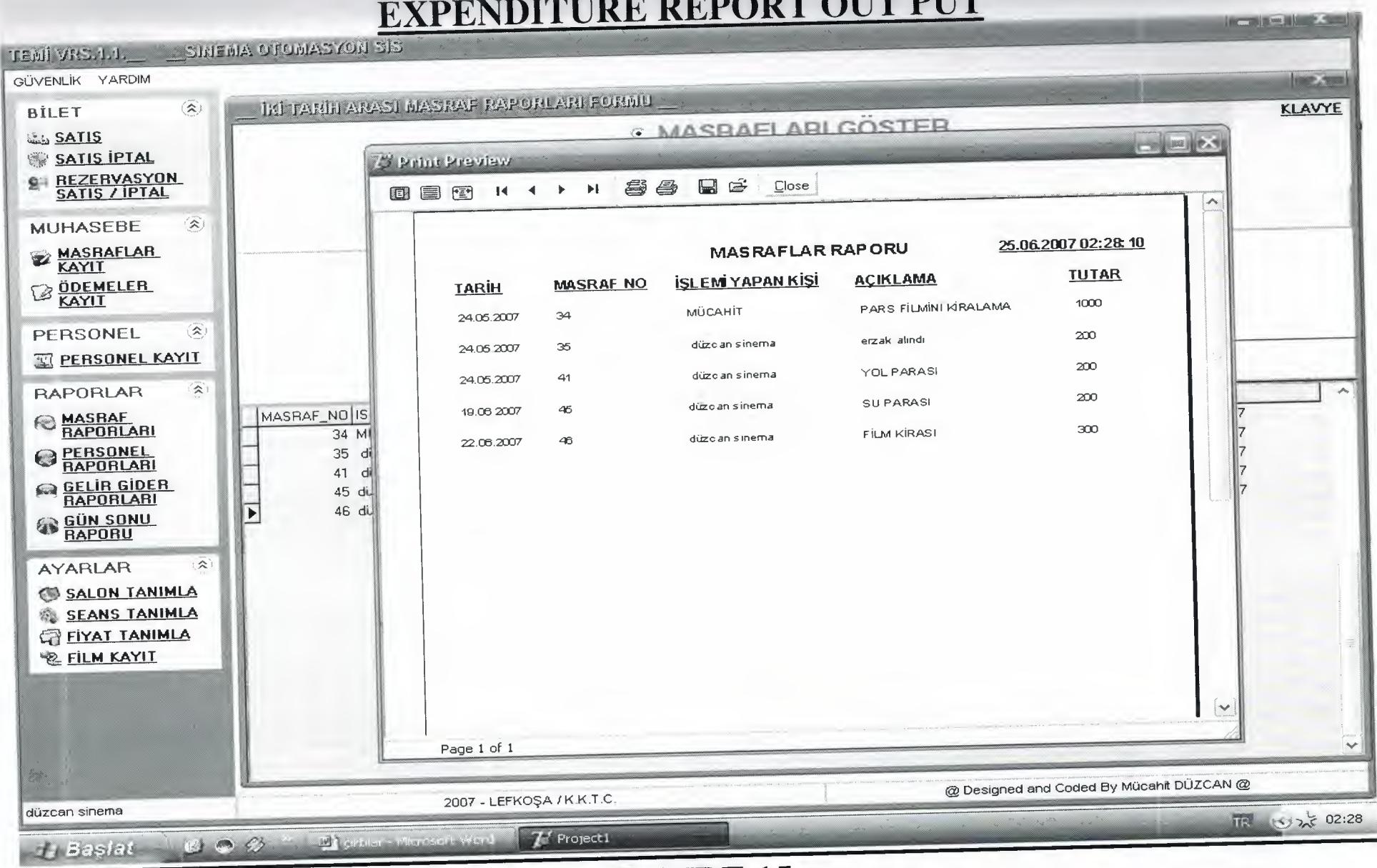


FIGURE 15.

PAYMENT REPORT OUT PUT

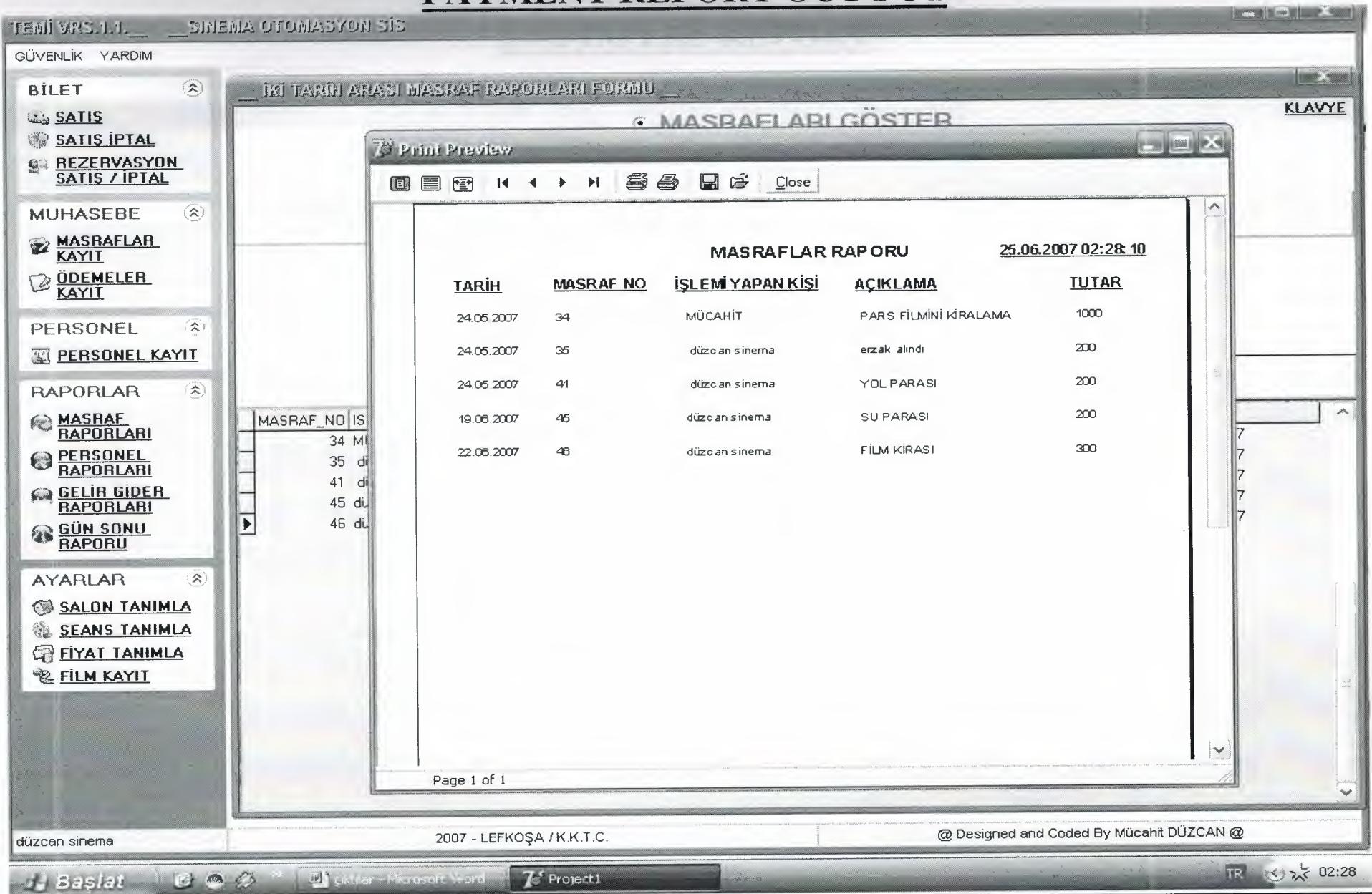


FIGURE 16.

EMPLOYEE REPORT

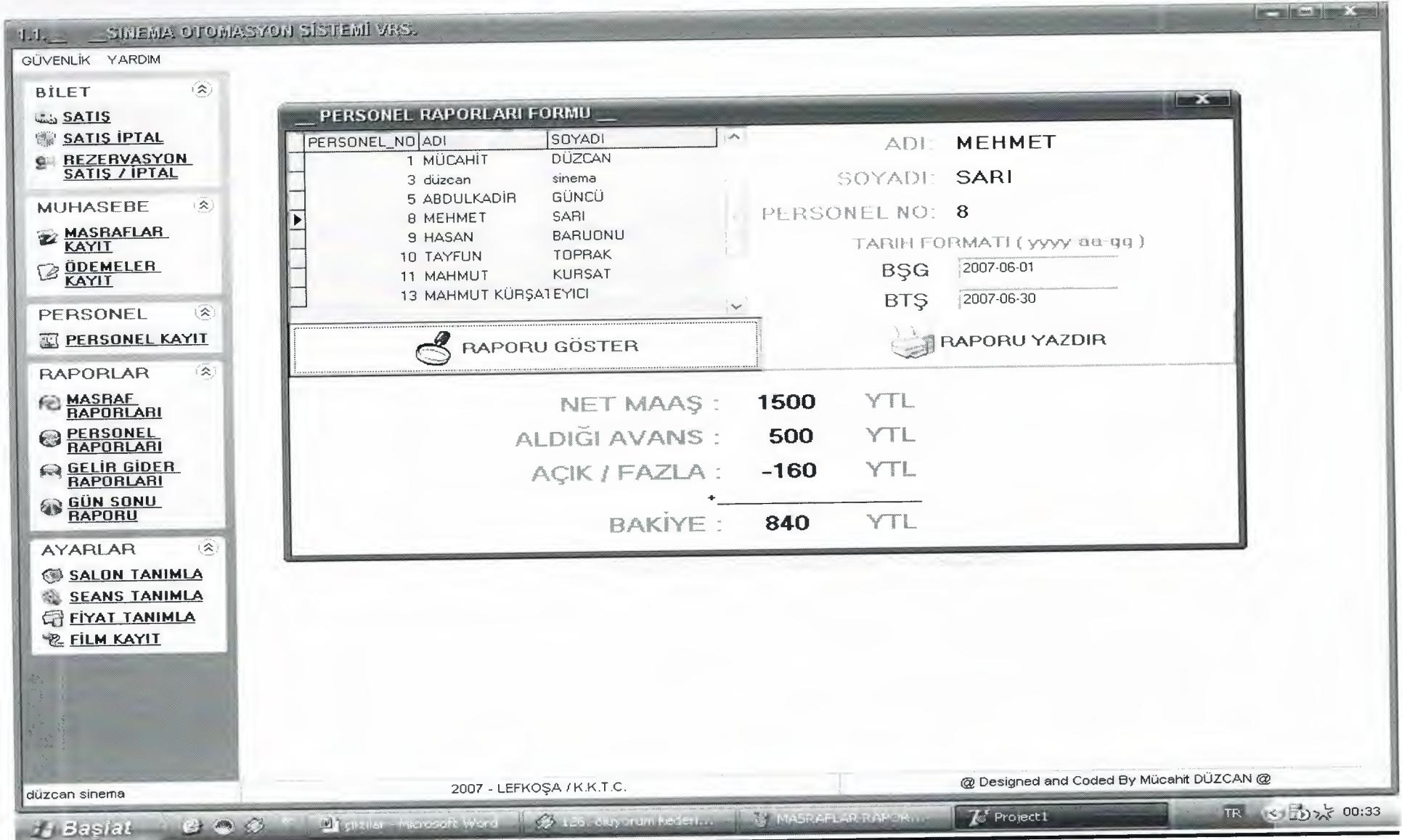


FIGURE 17.

INCOME AND EXPENDITURE REPORTS

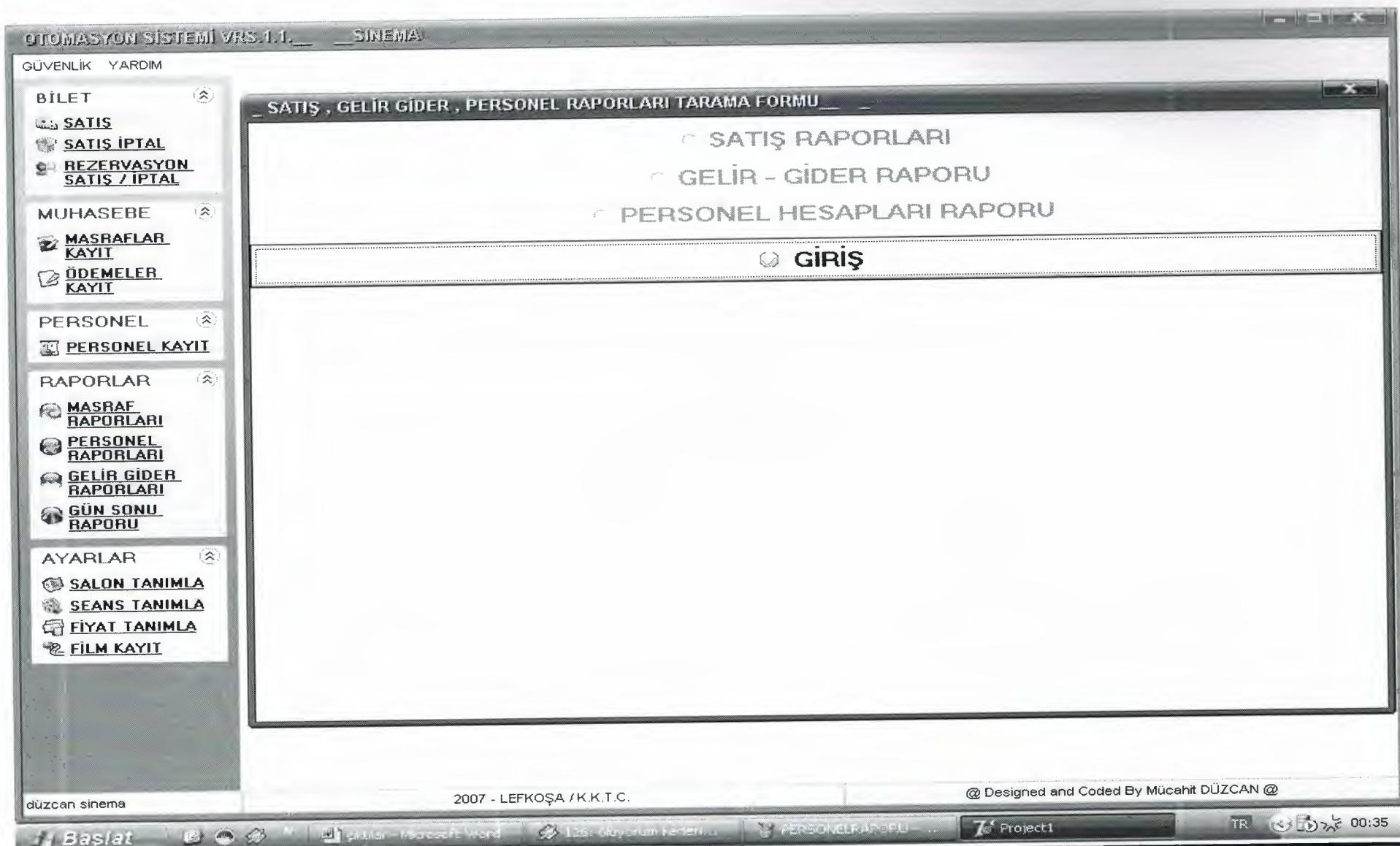


FIGURE 18.

INCOME AND EXPENDITURE REPORTS (SALE 1)

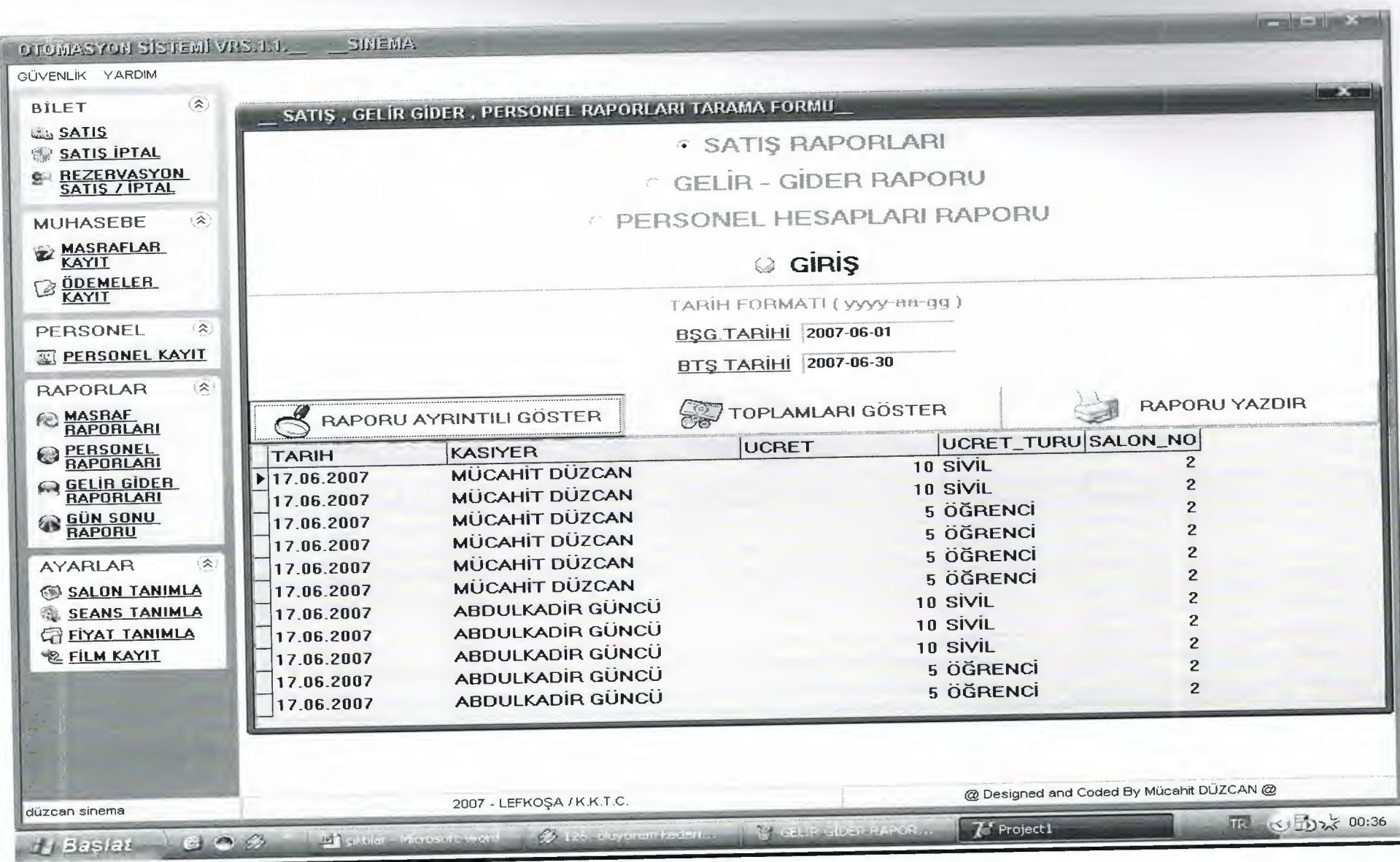


FIGURE 19.

INCOME AND EXPENDITURE REPORTS (SALE 2)

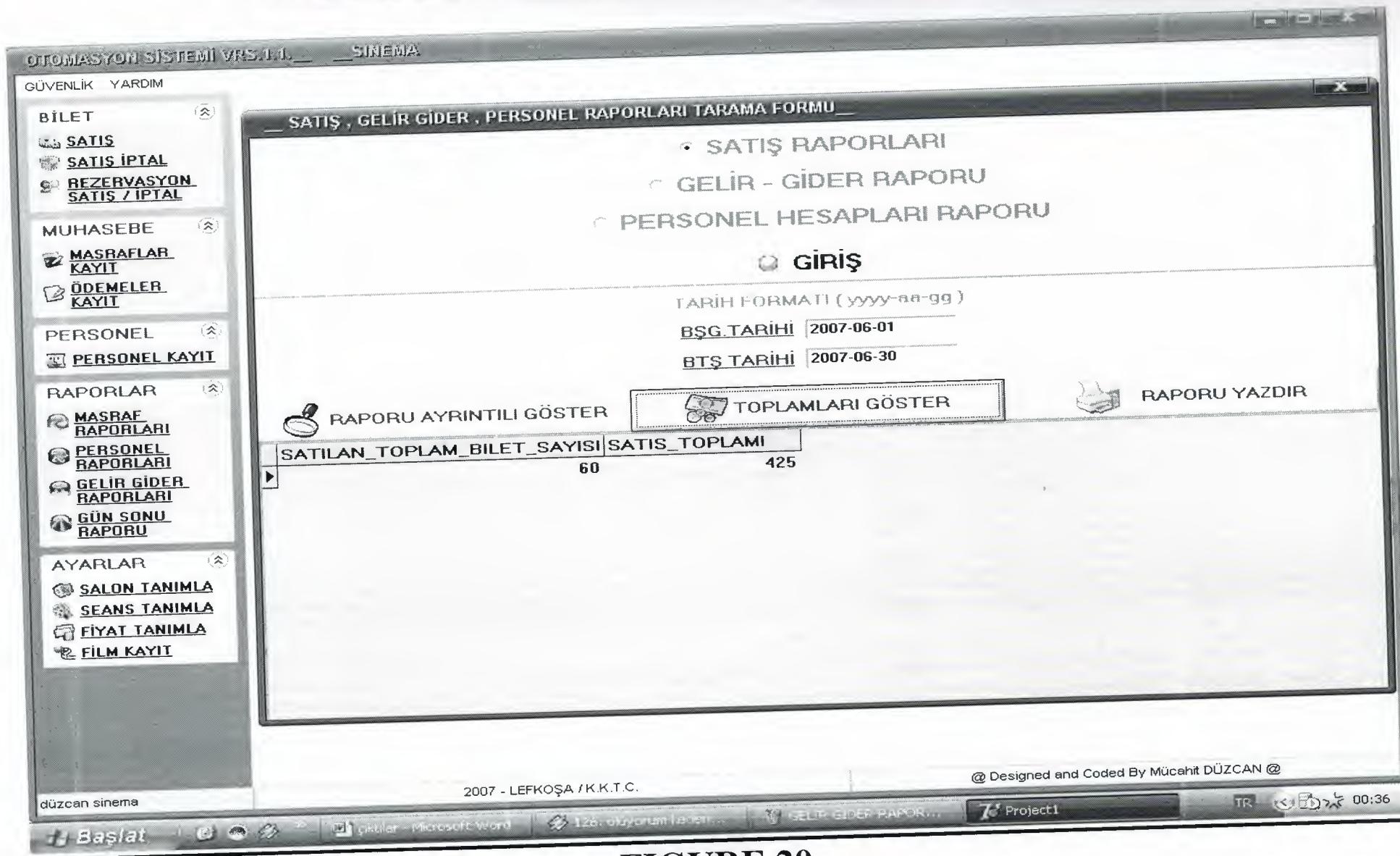


FIGURE 20.

INCOME AND EXPENDITURE REPORTS

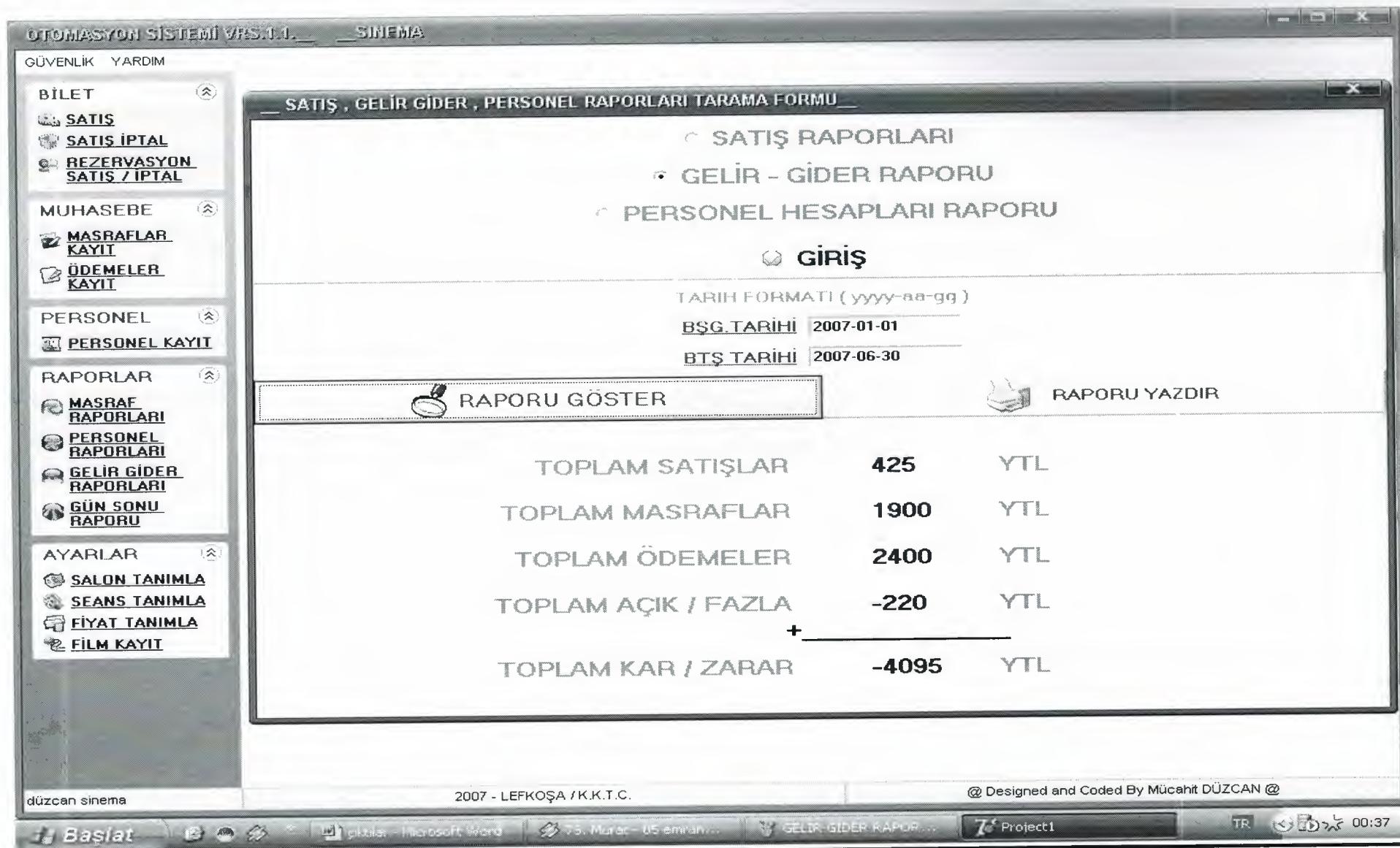


FIGURE 21.

INCOME AND EXPENDITURE REPORTS (EMPLOYEE 1)

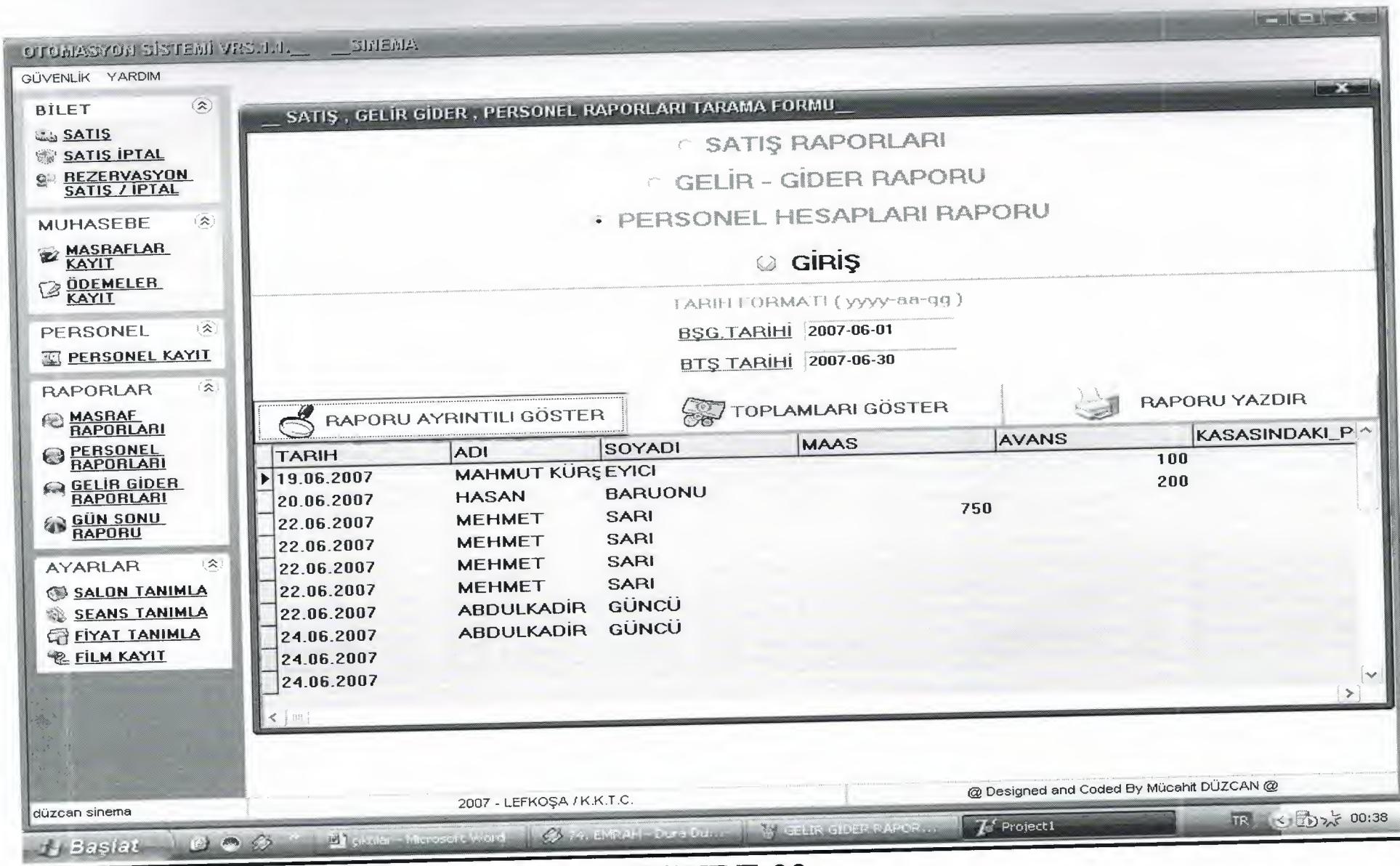


FIGURE 22.

INCOME AND EXPENDITURE REPORTS (EMPLOYEE 2)

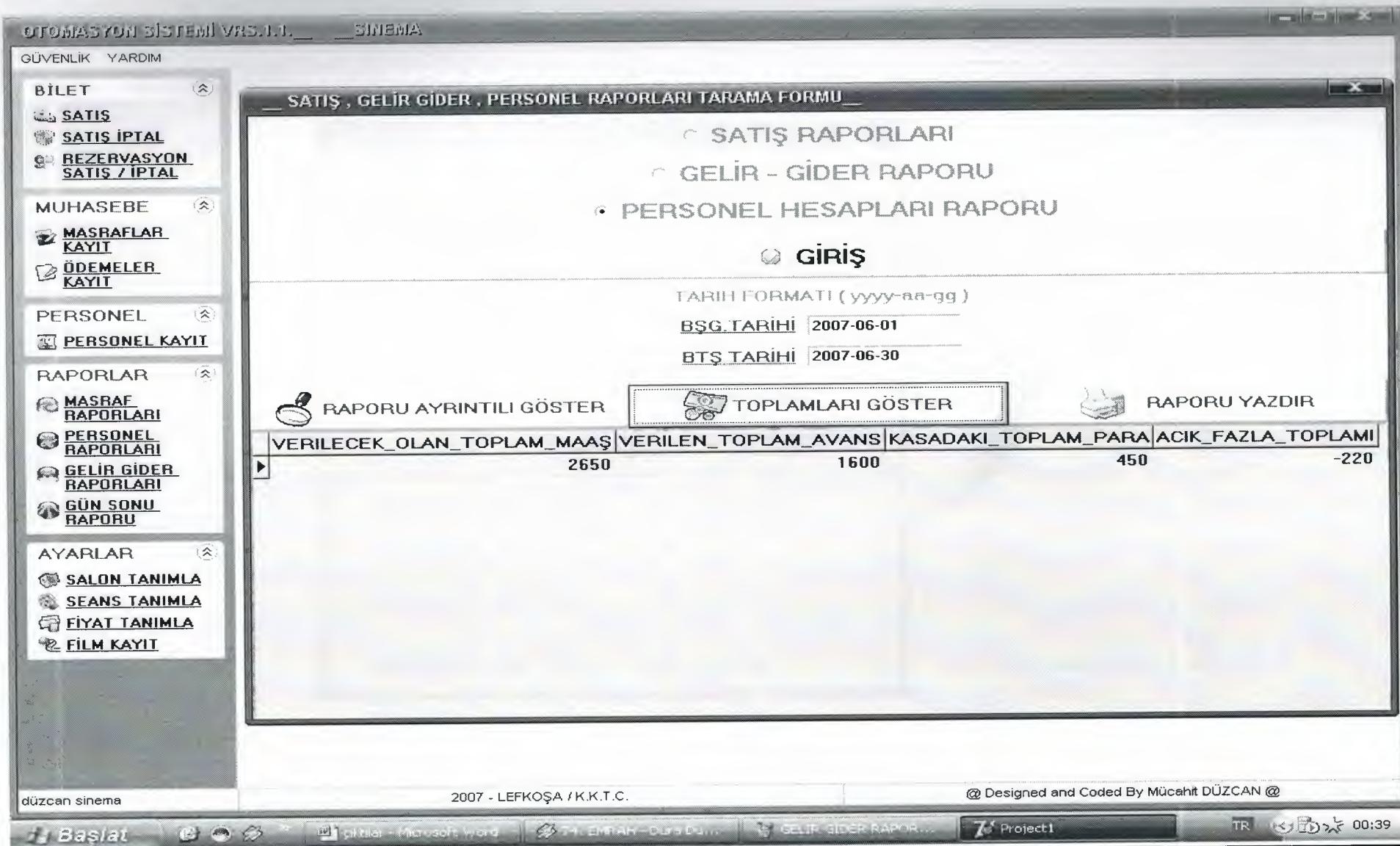


FIGURE 23.

END DAY REPORT (1)



FIGURE 24.

END DAY REPORT (2)



FIGURE 25.

DEFINATION SALON



FIGURE 26.

DEFINATION SEANS (1)

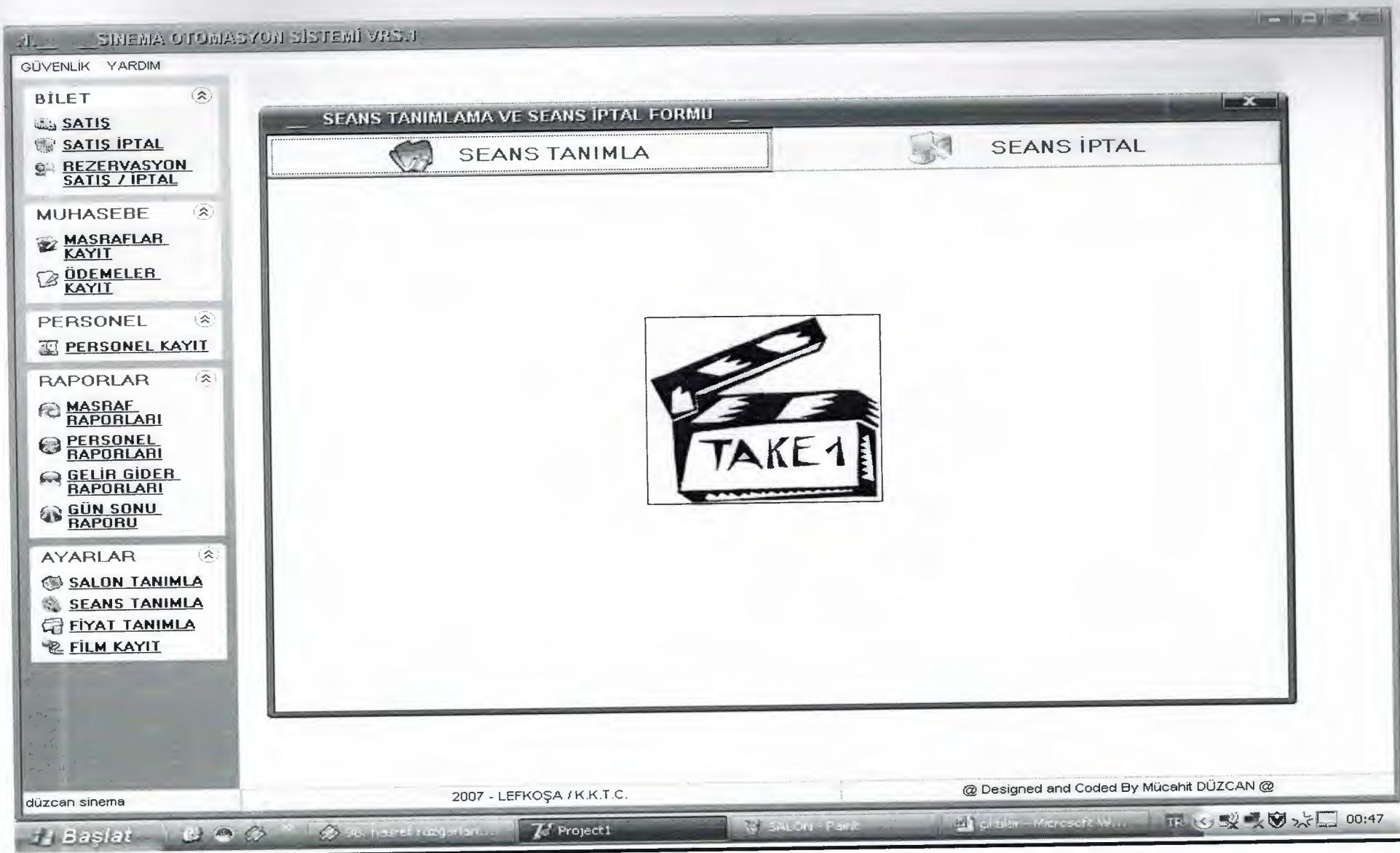


FIGURE 27.

DEFINATION SEANS (2)

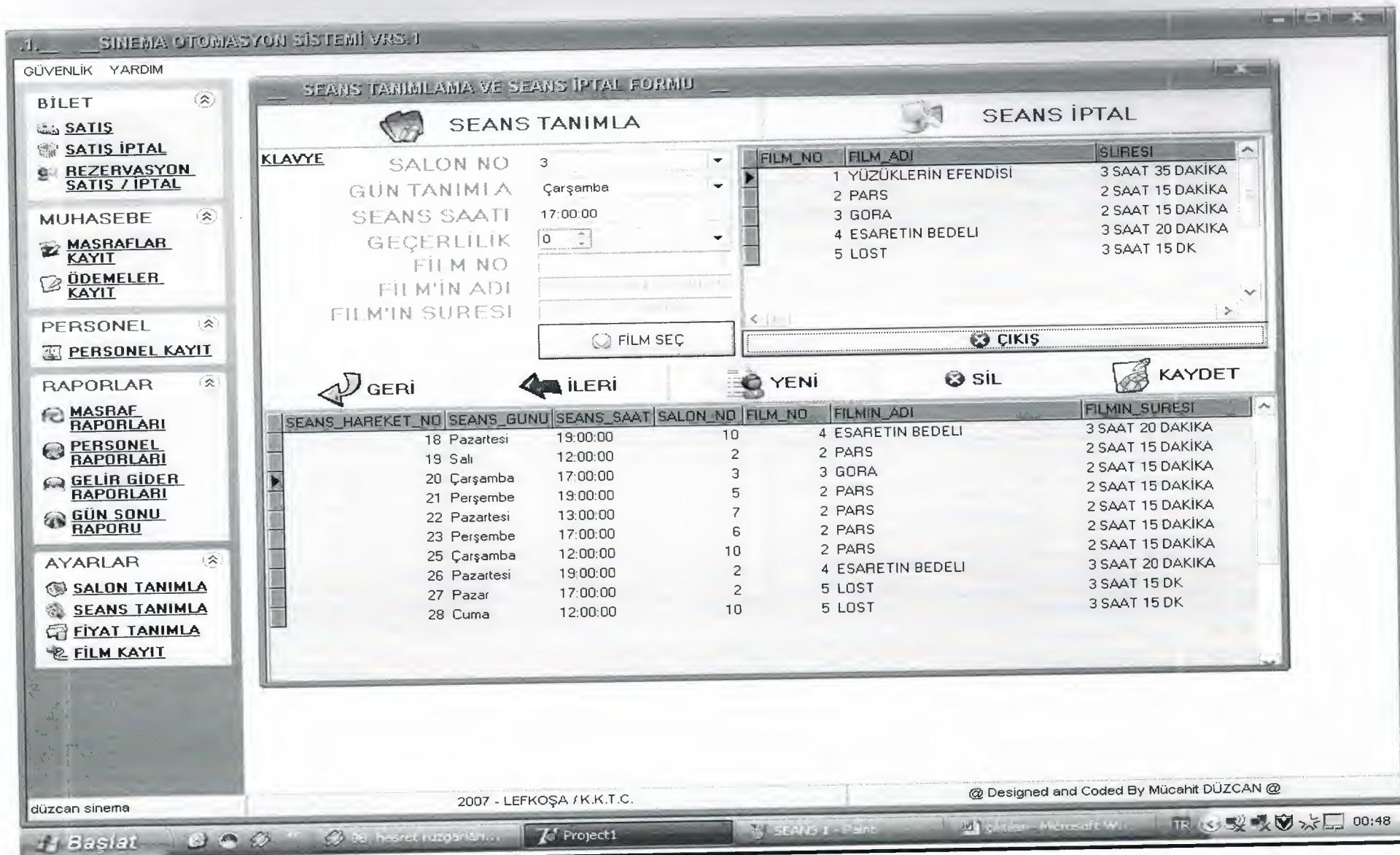


FIGURE 28.

DEFINATION SEANS (3)

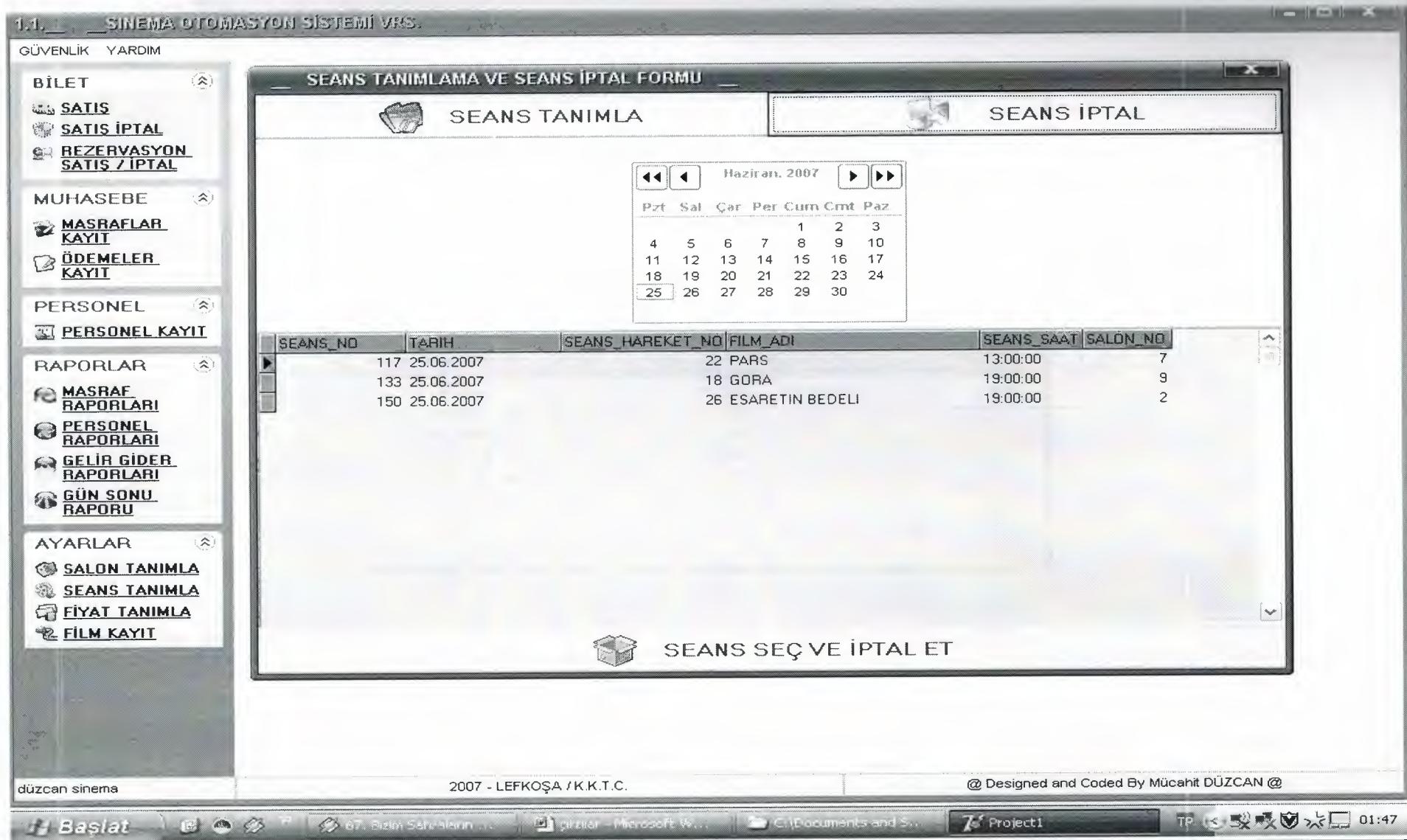


FIGURE 29.

DEFINATION SALON

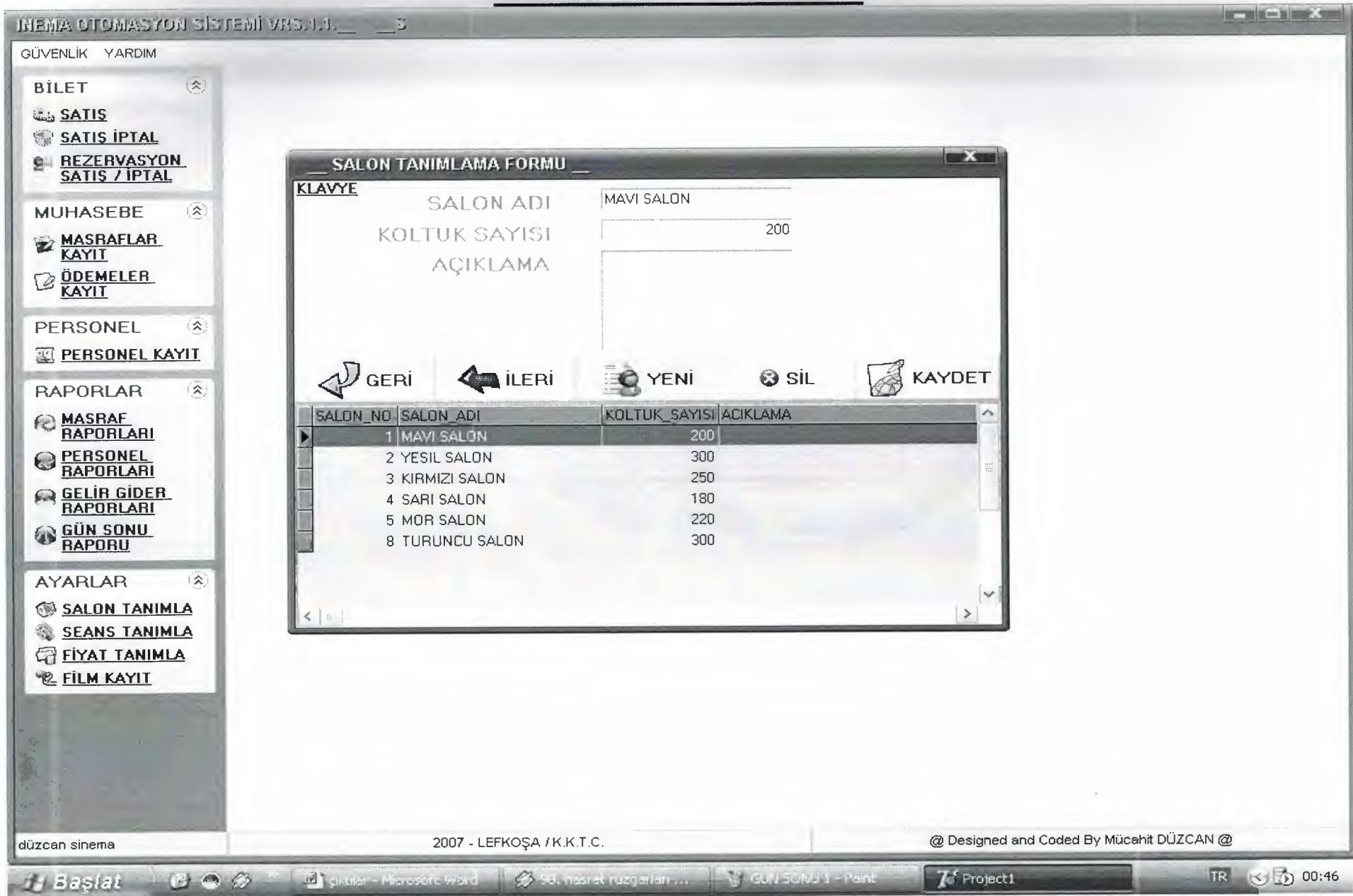


FIGURE 30.

DEFINATION TICKET PRICE



FIGURE 31.

FILM REGISTRATION

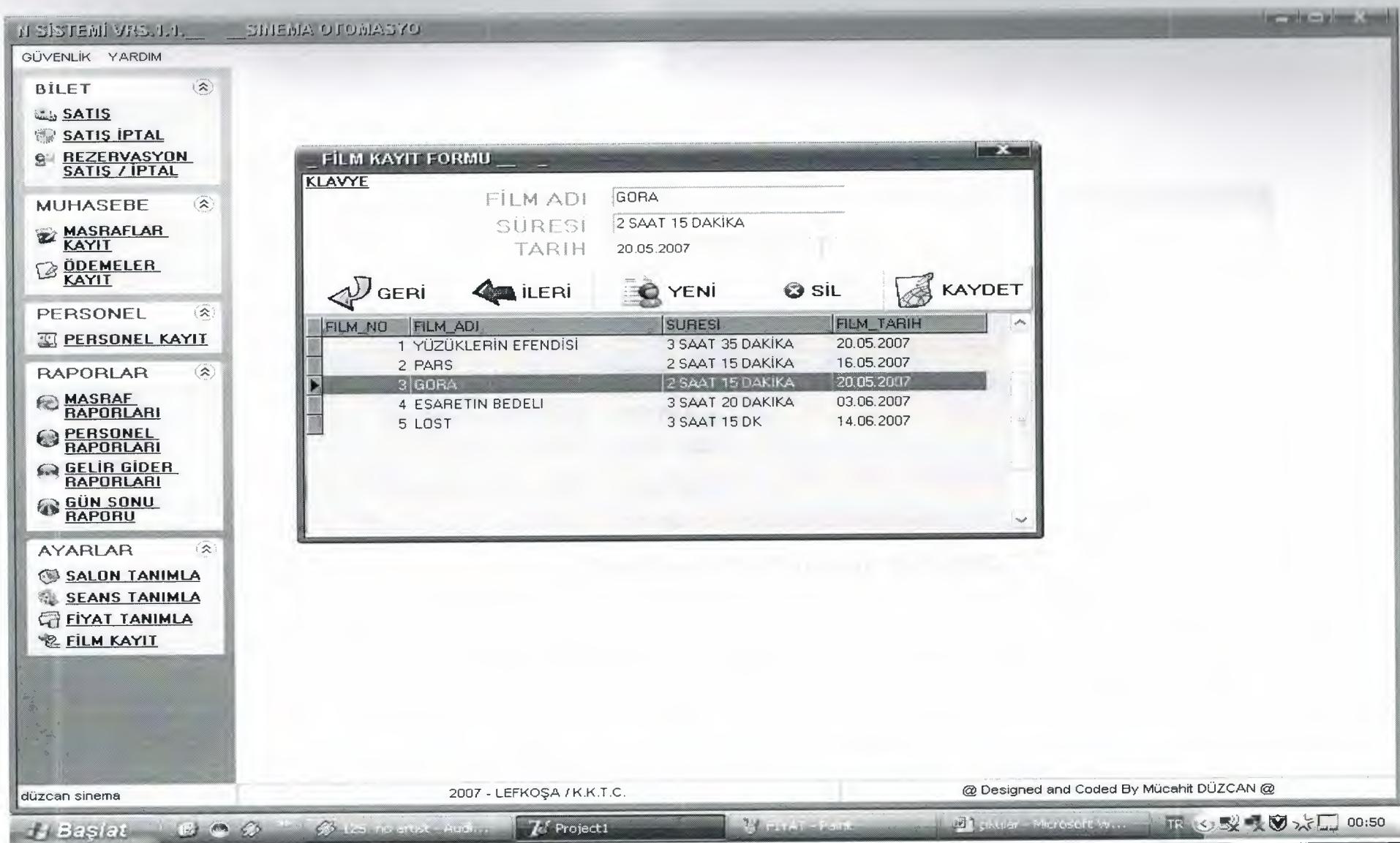


FIGURE 32.

EMPLOYEE INFORMATION CONTROL PANEL

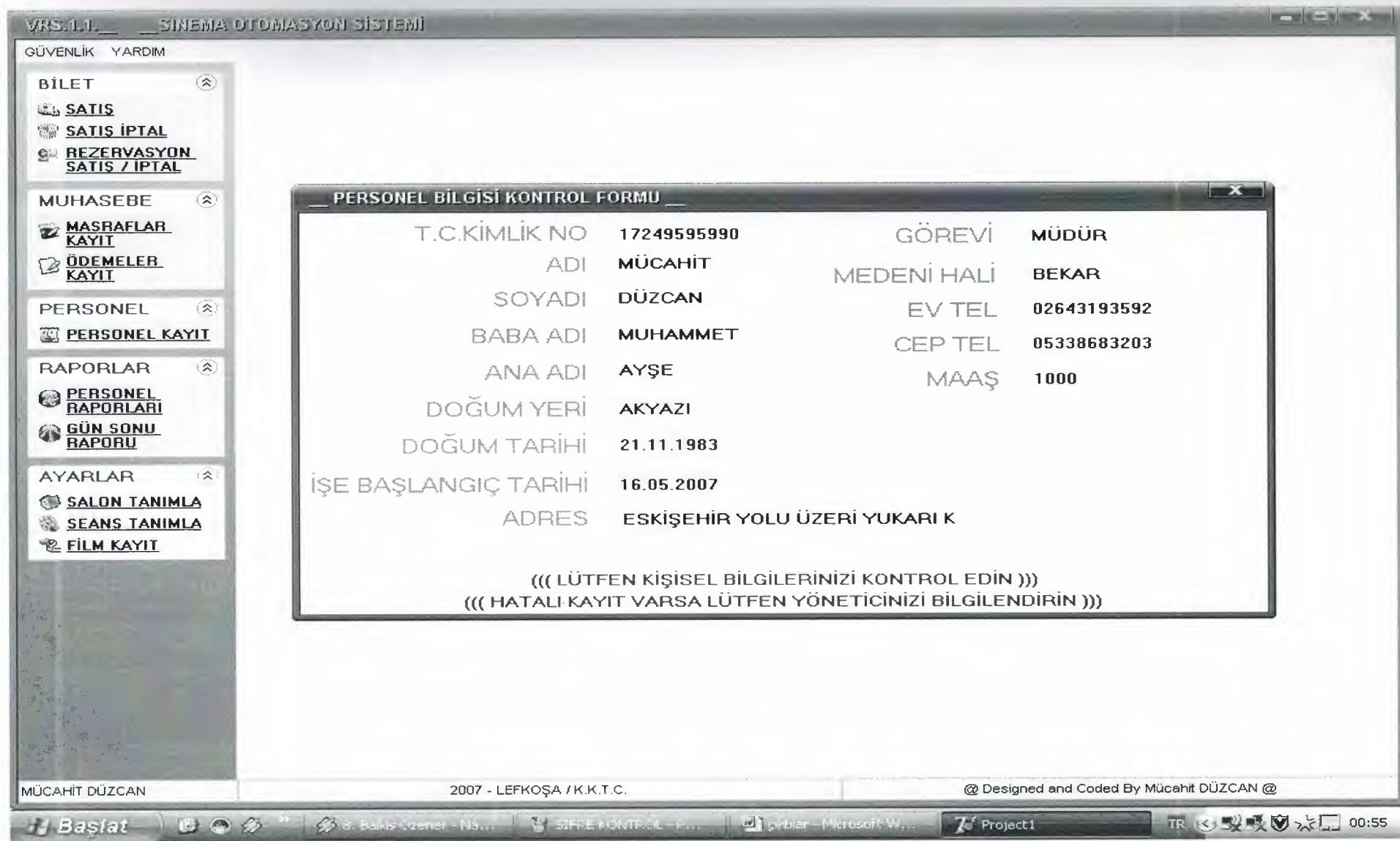


FIGURE 33.

CHANGE USER NAME AND PASSWORD



FIGURE 34.

PROGRAM MAP (DIRECTOR)

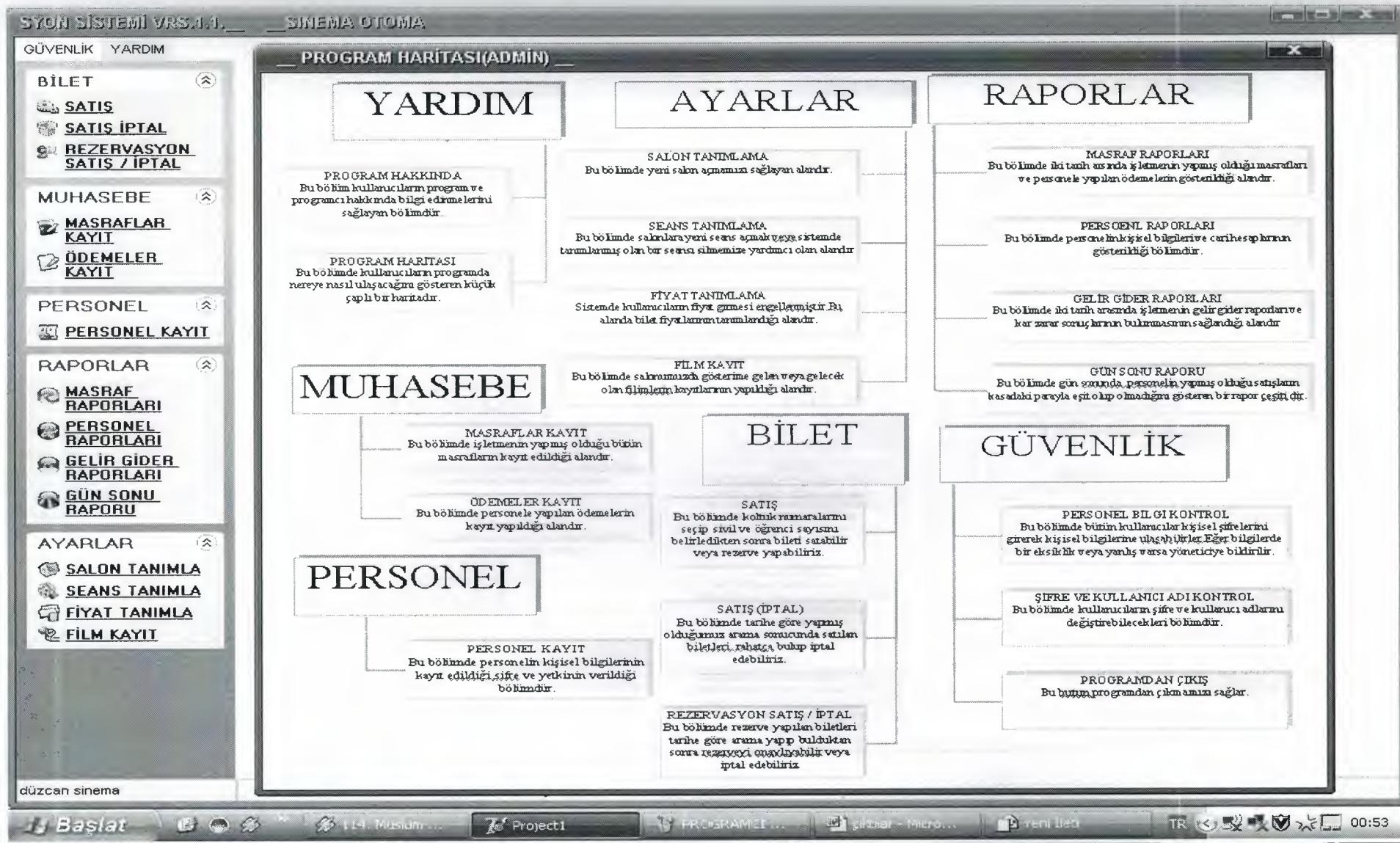
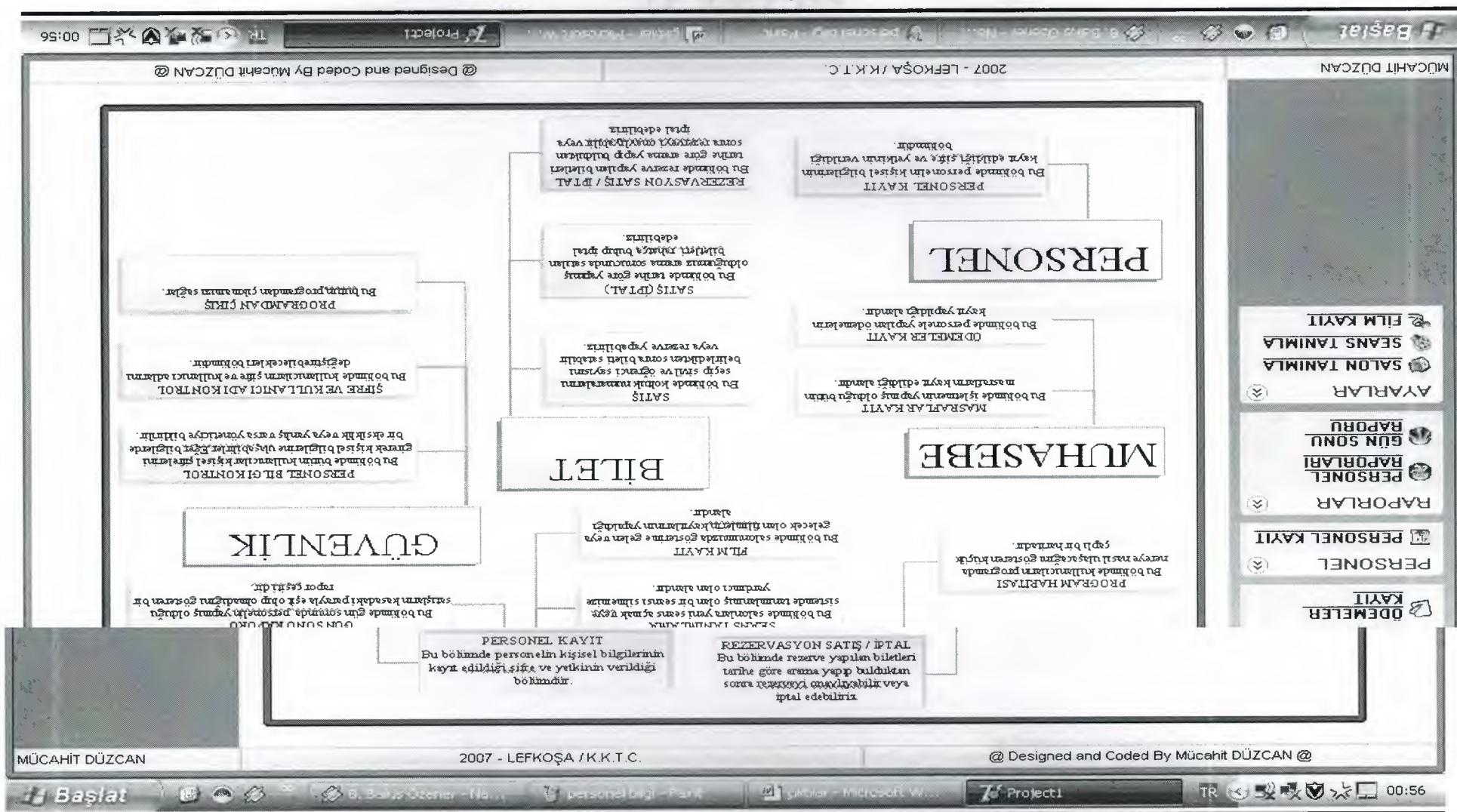


FIGURE 35.

FIGURE 36.

FIGURE 36.

PROGRAM MAP (CASHIER)

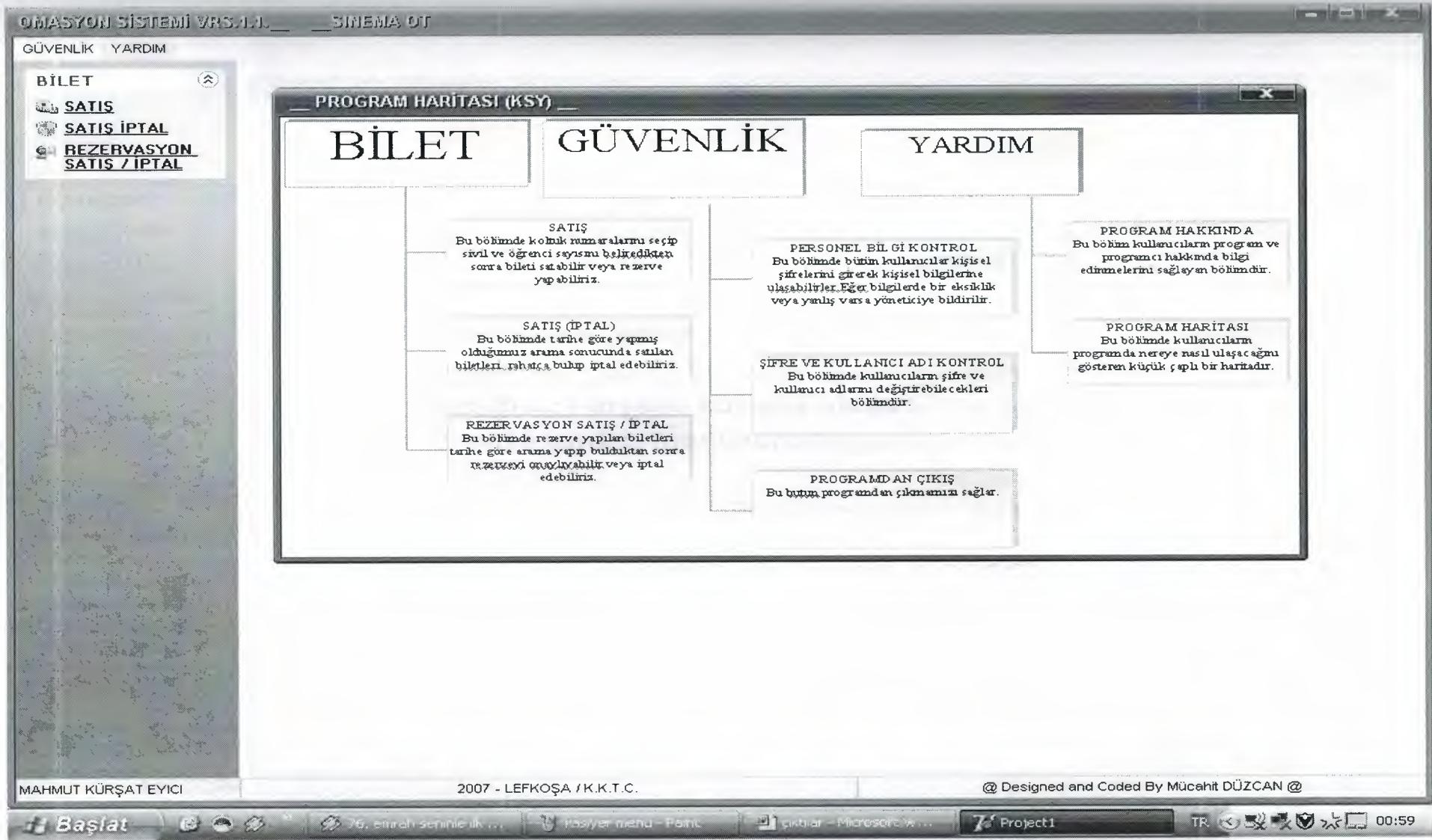


FIGURE 37.

PROGREMMER INFORMATION

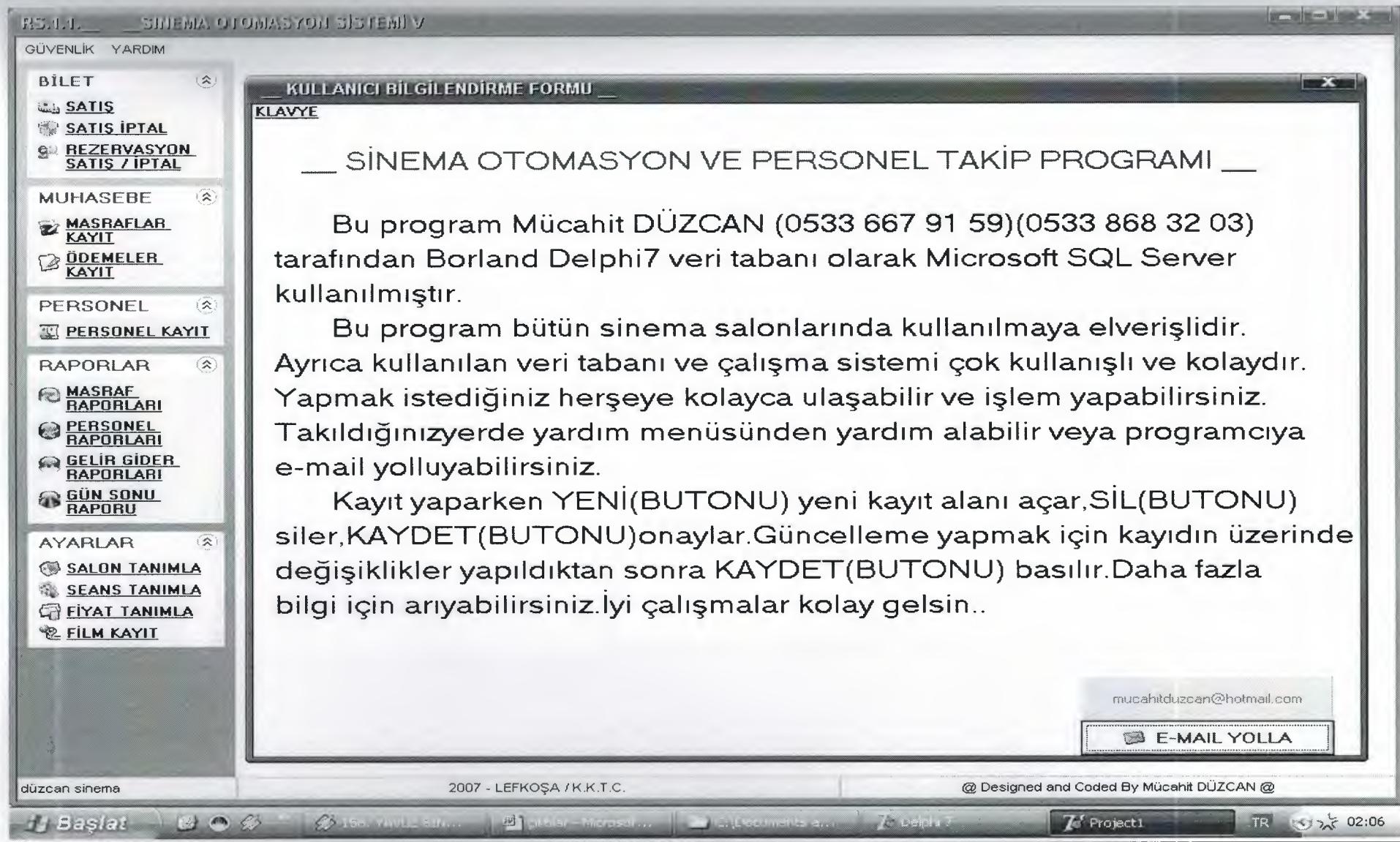


FIGURE 38.

CONTACT TO PROGRAMMER

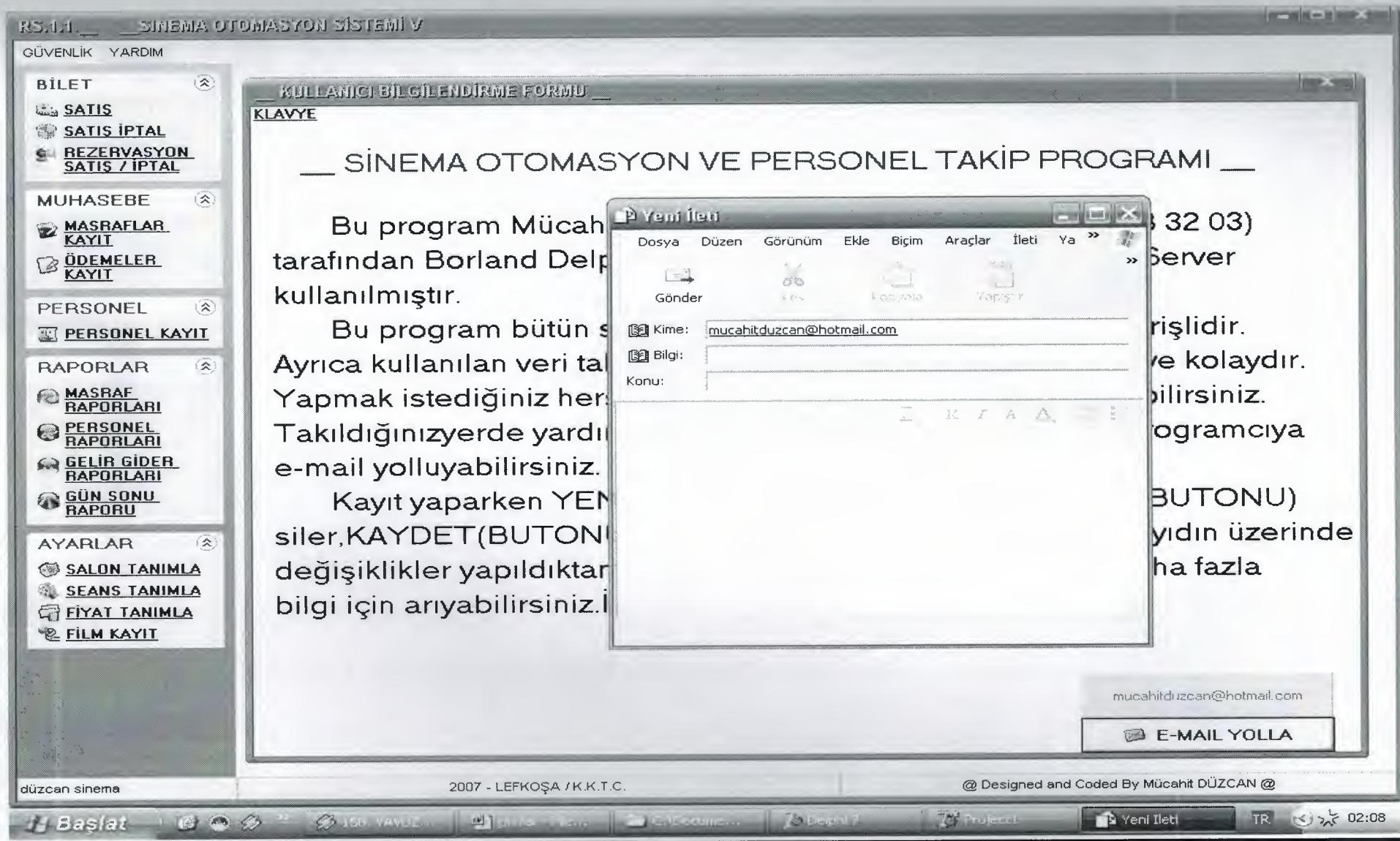


FIGURE 39.