

## Client

<u>C_SSN</u>	C_First_Name	C_Last_Name	C_Email
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## Client\_Phone

<u>Client_SSN</u>	<u>C_Phone</u>
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## Payment

<u>Pay_ID</u>	Amount	Card_Number	Card_Type	CVV	Name_On_Card	C_SSN
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## Location

<u>Location_ID</u>	Country	City	Apartment_numbe	Building_Number	Street_Name	Floor	Near_by
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## Property

<u>Property_ID</u>	Type	Size	A_SSN	C_SSN	Category	Date	State
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## Located\_in

<u>Property_ID</u>	<u>Location_ID</u>
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## Property\_Details

<u>Property_ID</u>	<u>Description</u>	Number_Of_Bathrooms	Number_Of_Rooms	Price	Furnished	Condition	Pool	Garden	Parking	Balcony
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## Agency

<u>Agency_ID</u>	Tin	Agency_Name
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## Agency\_Location

<u>Agency_ID</u>	<u>Country</u>	<u>City</u>
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## Agent

Agency_ID	<u>A_SSN</u>	A_First_Name	A_Last_Name	A_Email	A_Phone
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## Client Table

	SSN	FIRST_NAME	LAST_NAME	EMAIL
1	232118857	Mariam	Maged	MariamM@gmail.com
2	512455788	Ahmed	Ayman	AhmedA@gmail.com
3	548616858	Amira	Ahmed	AmiraA@gmail.com
4	494859032	Youssef	Sherif	YoussefS@gmail.com
5	123456789	Mario	Medhat	MarioM@gmail.com
6	987654321	Maria	Amgd	MariaA@gmail.com
7	135792468	Ahmed	Ali	AhmedA@gmail.com

Create Table Client

(SSN Number (9) primary key,

first\_name VARCHAR (8),

last\_name VARCHAR (8),

email VARCHAR (25) unique);

INSERT INTO client (SSN, first\_name, last\_name, email)

VALUES(232118857,'Mariam','Maged', 'MariamM@gmail.com');

VALUES(512455788,'Ahmed','Ayman', 'AhmedA@gmail.com');

VALUES(548616858,'Amira','Ahmed', 'AmiraA@gmail.com');



VALUES(494859032,'Youssef','Sherif', 'YoussefS@gmail.com');

VALUES(123456789,'Mario','Medhat', 'MarioM@gmail.com');

VALUES(987654321,'Maria','Amgd', 'MariaA@gmail.com');

VALUES(135792468,'Ahmed','Ali', 'AhmedA@gmail.com');

## Client\_Phone Table

	 C_SSN	 C_PHONE
1	512455788	01248578017
2	494859032	01193650123
3	232118857	01032760632
4	232118857	01145700831
5	548616858	01065207743
6	123456789	01018904623
7	987654321	01207532095
8	135792468	01190584761
9	135792468	01256890234

```
Create Table Client_Phone(  
  c_ssn number(9) ,  
  c_phone VARCHAR2(11),  
  primary key (c_ssn , c_phone ));
```

```
INSERT INTO Client_Phone(c_ssn, c_phone)  
VALUES(512455788,'01248578017');  
VALUES(494859032,'01198650123');  
VALUES(232118857,'01032760632');  
VALUES(232118857,'01145700831');  
VALUES(548616858,'01065297743');  
VALUES(123456789,'01018904623');  
VALUES(987654321,'01287532096');  
VALUES(135792468,'01130584761');  
VALUES(135792468,'01256890234');
```

## Payment Table

	<small>A Z</small> PAY_ID	<small>A Z</small> AMOUNT	<small>A Z</small> CARD_TYPE	<small>A Z</small> CARD_NUMBER	<small>A Z</small> CVV	<small>A Z</small> NAME_ON_CARD	<small>A Z</small> C_SSN
1	10000	2350000	Mastercard	5210387306335745	209	Ahmed Ayman	512455788
2	12540	3450000	Mastercard	4032441851584078	245	Mohamed Ali	232118857
3	63457	4000000	VISA	5304476216300685	923	Youssef Sherif	494859032

Create table Payment ( Pay\_id varchar2(5) primary key,  
Amount number(9) not null,  
Card\_type varchar2(25) not null,  
Card\_number varchar2(16) unique not null,  
CVV varchar2(3) NOT NULL,  
Name\_On\_Card varchar2(40) not null,  
C\_ssn number (9) References Client (SSN) );

INSERT INTO Payment

VALUES('10000', 2350000,'Mastercard',' 5210387306335745',  
' 209',' Ahmed Ayman', 512455788);

VALUES('12540', 3450000,'Mastercard',  
' 4032441851584078','245',' Mohamed Ali', 232118857);

VALUES('63457', 4000000,'VISA', '5304476216300685','923',  
' Youssef Sherif', 494859032);

# Location Table

LOCATION_ID	COUNTRY	CITY	APARTMENT_NUMBER	BUILDING_NUMBER	STREET_NAME	FLOOR	NEAR_BY
1	Egypt	Cairo	5	52	Ahmed Helmy	10	Gym Shubra
2	Egypt	Cairo	9	89	Toman Bai	5	Bilal Mosque
3	Egypt	Cairo	13	22	Sliem Ali	9	Al Khalidin Club
4	Egypt	Cairo	3	35	Masra	4	Saint Mary Church
5	Egypt	Cairo	12	34	Abbasya Square	2	Ain Shams University
6	Egypt	Mansoura	8	7	Mansoura St.	5	Mansoura University
7	Egypt	Giza	1	22	Giza St.	8	Shopping Mall

CREATE TABLE Location(

Location\_ID number(32) PRIMARY KEY,

Country VARCHAR2(30) NOT NULL,

City VARCHAR2(30) NOT NULL,

Apartment\_Number number(30) NOT NULL,

Building\_Number number(35) NOT NULL,

Street\_Name VARCHAR2(255) NOT NULL,

Floor number(15) NOT NULL,

Near\_by VARCHAR2(50) NOT NULL);

INSERT INTO Location

VALUES(1,'Egypt', 'Cairo', 5, 52, 'Ahmed Helmy', 10, 'Gym Shubra');

VALUES(2,'Egypt', 'Cairo', 9, 89, 'Toman Bai', 5, 'Bilal Mosque');

VALUES(3,'Egypt', 'Cairo', 13, 22, 'Sliem Ali', 9, 'Al Khalidin Club');

VALUES(4,'Egypt', 'Cairo', 3, 35, 'Masra', 4, 'Saint Mary Church');

VALUES(5,'Egypt', 'Cairo', 5, 52, 'Abbasya Square', 2, 'Ain Shams University');

VALUES(6,'Egypt', 'Mansoura', 8, 7, 'Mansoura St.', 5, 'Mansoura University');

VALUES(7,'Egypt', 'Giza', 1, 22, 'Giza St.', 8, 'Shopping Mall');

## Property Table

	PROPERTY_ID	P_TYPE	P_SIZE	AGENT_SSN	CLIENT_SSN	P_CATEGORY	DEAL_DATE	STATE
1	55	Apartment	188	182740935	232118857	Rent	03-NOV-23	Sold Out
2	59	Villa	250	182740935	512455788	Rent	17-OCT-23	Sold Out
3	58	Town House	310	134624861	(null)	Buy	(null)	Available
4	56	Villa	230	576891782	494859032	Buy	26-SEP-23	Sold Out
5	57	Town House	350	982457229	(null)	Buy	(null)	Available

CREATE TABLE Property

(Property\_ID number(10) primary key,

P\_Type varchar2(15) not null,

P\_Size number(5)not null,

Agent\_ssn number(9) references agent (A\_ssn) ,

Client\_ssn number(9) references client (ssn),

P\_Category varchar2(5) ,

Deal\_Date date,

State varchar(10) not null);

Insert Into Property

VALUES(55,'Apartment',188,182740935,232118857,'Rent','03/November/2023',  
'Sold Out');

VALUES(56,'Villa',230,576891782,494859032,'Buy','26/september/2023','Sold  
Out');

VALUES(57,'Town House',350,982457229,null,'Buy',null,'Available');

VALUES(58,'Town House',310,134624861,null,'Buy',null,'Available');

VALUES(59,'Villa',250,182740935,512455788,'Rent','17-october-  
2023','Sold Out');

## Located\_IN Table

PROPERTY_ID	LOCATION_ID
1	58
2	55
3	57
4	56
5	59

```
CREATE TABLE Located_in (  
property_id number(10) ,  
location_id number(32),  
primary key (property_id,location_id));
```

```
Insert Into located_in location_in  
VALUES(58,1);
```

```
insert into located_in  
VALUES(55,2);
```

```
insert into located_in  
VALUES(57,3);
```

```
insert into located_in  
VALUES(56,4);
```

```
insert into located_in  
VALUES(59,5);
```

## Property\_Details Table

PROPERTY_ID	DESCRIPTION	NUMBER_OF_ROOMS	NUMBER_OF_BATHROOMS
1	55 Apartment for rent with 3 Rooms and 2 bathrooms,Area:160 square meters	3	2
2	56 Villa for sale with 2 Rooms and 2 bathrooms,Area:140 square meters	2	2
3	57 Town House for Sale with 3 Rooms and 3 bathrooms,Area:230 square meters	3	3
4	58 Town House for Sale with 6 Rooms and 4 bathrooms,Area:350 square meters	6	4
5	59 Villa for Rent with 5 Rooms and 3 bathrooms,Area:310 square meters	5	3

PRICE	FURNISHED	CONDITION	POOL	GARDEN	PARKING	BALCONY
700000	NO	Finished	No	No	Yes	Yes
600000	NO	Finished	No	No	No	No
2000000	NO	Under Constr...	No	Yes	Yes	Yes
5000000	NO	Under Constr...	Yes	Yes	Yes	Yes
4500000	NO	Finished	Yes	Yes	Yes	Yes

create table Property\_Details

(property\_ID number(10) References PROPERTY(PROPERTY\_ID),

Description varchar2(4000)not null,

Number\_of\_Rooms number(10),

Number\_of\_Bathrooms number(10),

Price number(38)not null,

Furnished varchar2(6),

Condition varchar2(20),

Pool varchar2(6),

garden varchar2(6),

Parking varchar2(6),

balcony varchar2(6),

primary key(property\_ID,Description));



## Proprty\_Details Table continued

Insert Into PROPERTY\_DETAILS

VALUES(55,'Apartment for rent with 3 Rooms and 2  
bathrooms,Area:160 square  
meters',3,2,700000,'NO','Finished','No','No','Yes','Yes');

VALUES(56,'Villa for sale with 2 Rooms and 2  
bathrooms,Area:140 square  
meters',2,2,600000,'NO','Finished','No','No','No','No');

VALUES(57,'Town House for Sale with 3 Rooms and 3  
bathrooms,Area:230 square meters',3,3,2000000,'NO','Under  
Construction','No','Yes','Yes','Yes');

VALUES(58, 'Town House for Sale with 6 Rooms and 4  
bathrooms,Area:350 square meters',6,4,5000000,'NO','Under  
Construction','Yes','Yes','Yes','Yes');

VALUES(59, 'Villa for Rent with 5 Rooms and 3  
bathrooms,Area:310 square  
meters',5,3,4500000,'NO','Finished','Yes','Yes','Yes','Yes');

## Agency Table

	 AGENCY_ID	 TIN	 AGENCY_NAME
1	5432162	241563694	nasregy
2	4678903	743698478	citoroby
3	1987678	872629112	rokamy
4	6711892	246798463	abokry
5	2374568	729384871	trobaty

Create Table Agency(

Agency\_Id NUMBER(7) primary key,

Tin NUMBER(9) unique ,

Agency\_Name VARCHAR2(20) NOT NULL);

INSERT INTO Agency

VALUES (5432162,241563694,'nasregy');

INSERT INTO Agency

VALUES (4678903,743698478,'citoroby');

INSERT INTO Agency

VALUES (1987678,872629112,'rokamy');

INSERT INTO Agency

VALUES (6711892,246798463,'abokry');

INSERT INTO Agency

VALUES (2374568,729384871,'trobaty');

## Agency\_Location Table

	AGENCY_ID	COUNTRY	CITY
1	1987678	EGYPT	CAIRO
2	2374568	EGYPT	GIZA
3	6711892	EGYPT	MANSOURA
4	4678903	ENGLAND	manchester
5	5432162	ENGLAND	manchester

```
CREATE table AGENCY_LOCATION(  
AGENCY_ID NUMBER (7) ,  
COUNTRY VARCHAR2 (30),  
CITY VARCHAR2 (30),  
primary key (AGENCY_ID ,COUNTRY,CITY));
```

```
INSERT INTO AGENCY_LOCATION  
VALUES ('1987678','EGYPT','CAIRO');  
INSERT INTO AGENCY_LOCATION  
VALUES ('2374568','EGYPT','GIZA');  
INSERT INTO AGENCY_LOCATION  
VALUES ('6711892','EGYPT','MANSOURA');  
INSERT INTO AGENCY_LOCATION  
VALUES ('5432162','ENGLAND','manchester');  
INSERT INTO AGENCY_LOCATION  
VALUES ('4678903','ENGLAND','manchester');
```

# Agent Table

	AGENCY_ID	A_SSN	A_FIRST_NAME	A_LAST_NAME	A_EMAIL	A_PHONE
1	1987678	576891782	khalid	karim	khalidkarim@gmail.com	01098765432
2	4678903	982457229	Mostafa	Ayman	MostafaAyman@gmail.com	01143210987
3	1987678	134624861	Mohamed	Mostafa	MohamedMostafa@gmail.com	01190123456
4	5432162	182740935	Ali	Ehab	AliEhab@gmail.com	01278901246
5	2374568	112233446	Mazin	karim	MazinKarim@gmail.com	01255765432
6	6711892	998877665	Ziad	Ali	ZiadAli@gmail.com	01147865432

create table agent(

Agent\_Id NUMBER(7) REFERENCES AGENCY (AGENCY\_ID),

A\_ssn NUMBER(9) PRIMARY KEY ,

A\_FIRST\_NAME VARCHAR2(20) NOT NULL,

A\_LAST\_NAME VARCHAR2(20) NOT NULL,

A\_Email VARCHAR2(50) NOT NULL,

A\_Phone NUMBER(11) UNIQUE);

INSERT INTO Agent

VALUES(1987678,576891782,'khalid','karim','khalidkarim@gmail.com',  
01098765432);

VALUES(4678903,982457229,'Mostafa','Ayman','MostafaAyman@gmail.com',  
01143210987);

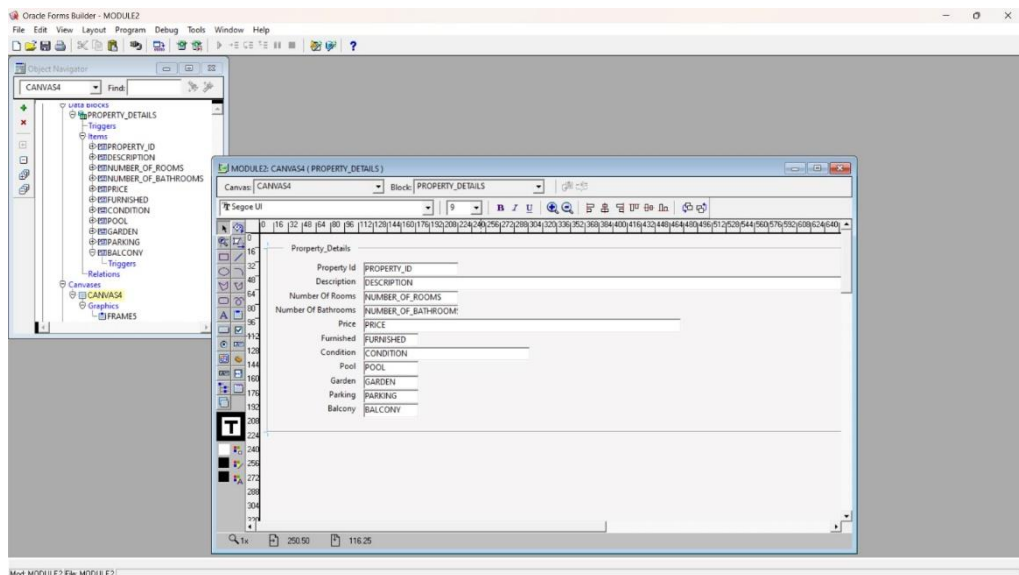
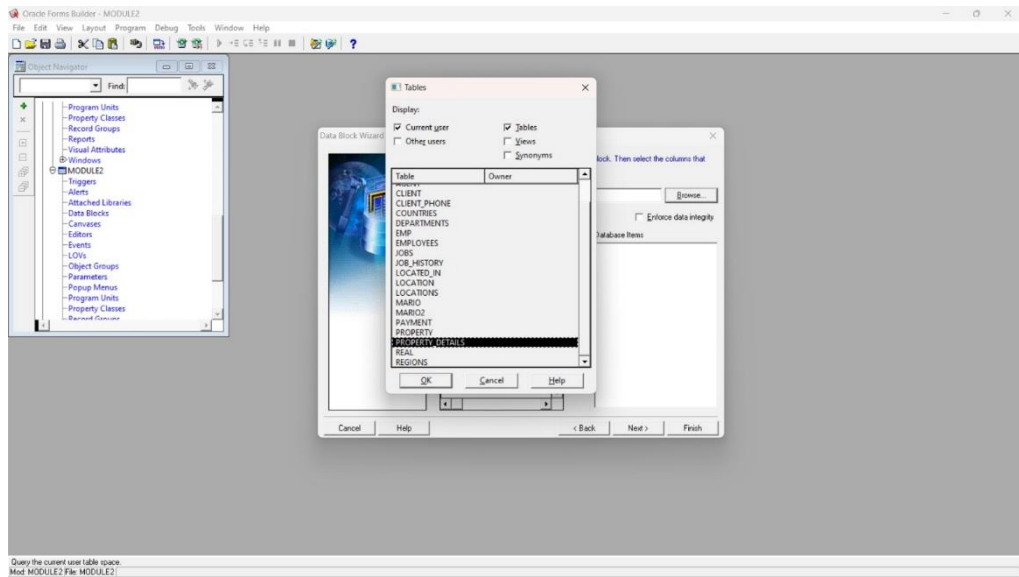
VALUE(1987678,134624861,'Mohamed','Mostafa','MohamedMostafa@gmail.com',  
01190123456);

VALUES (5432162,182740935,'Ali','Ehab','AliEhab@gmail.com',01278901246);

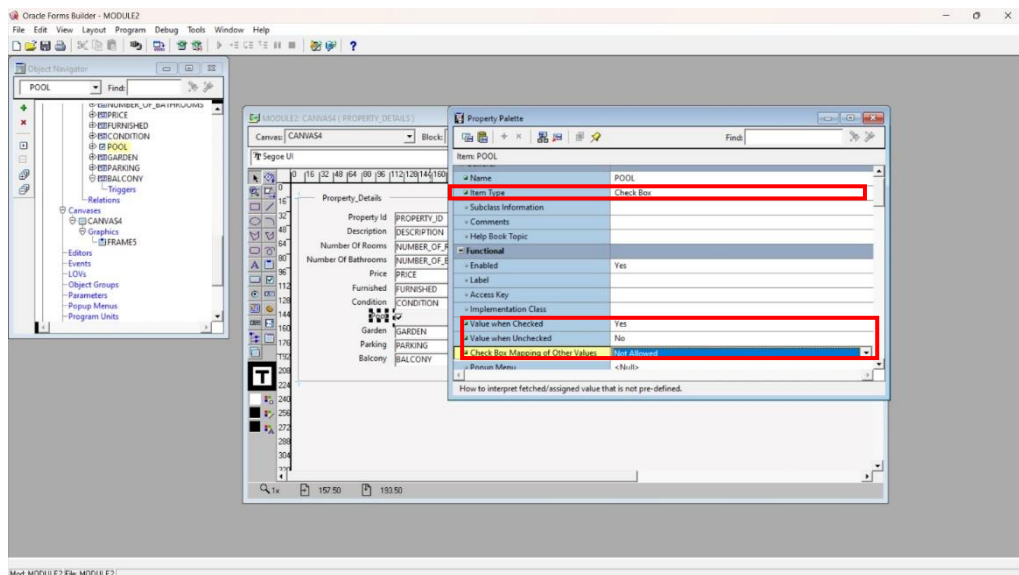
VALUES(2374568,112233446,'Mazin','karim','MazinKarim@gmail.com',  
01255765432);

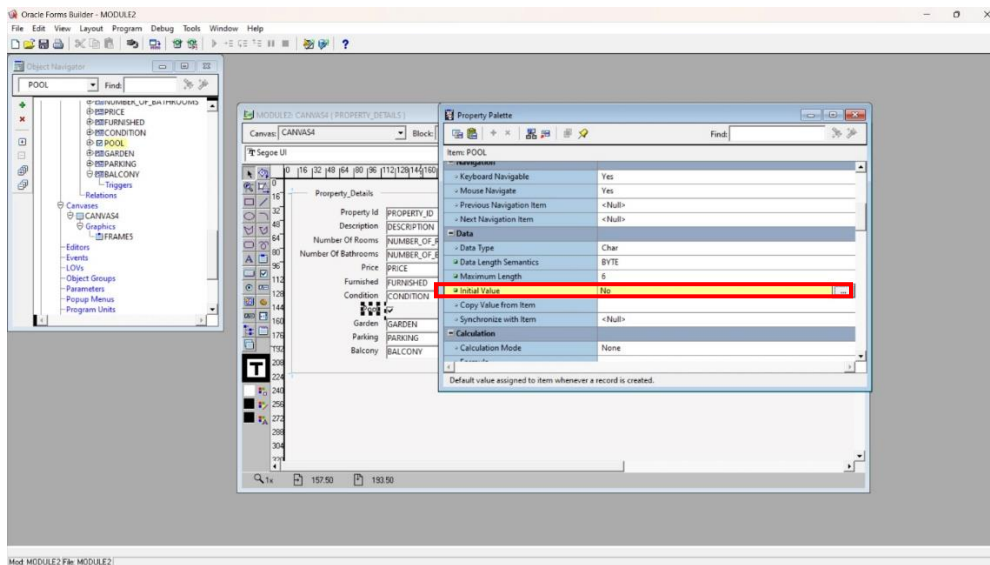
VALUES (6711892,998877665,'Ziad','Ali','ZiadAli@gmail.com',01147865432);

## Canvas 1:

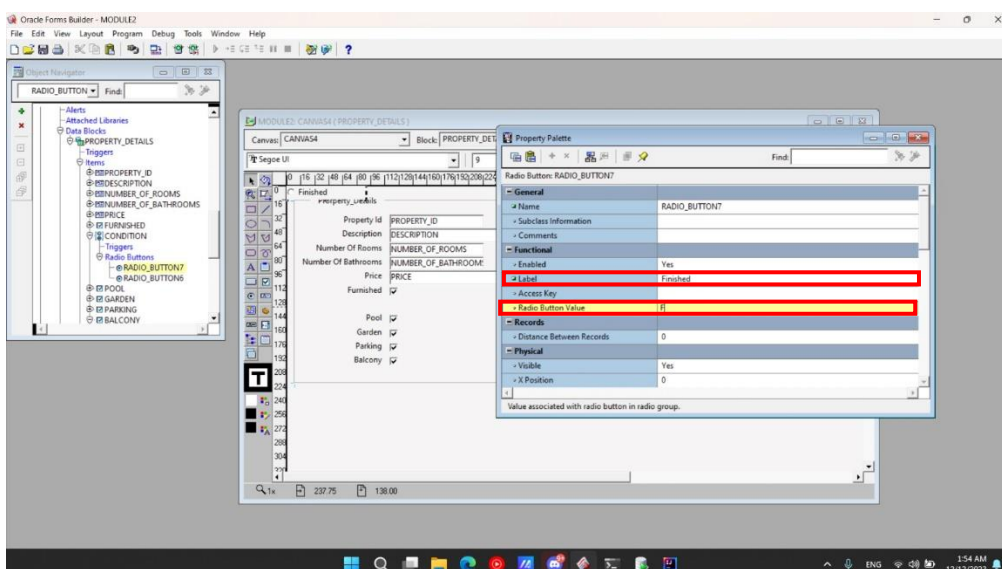
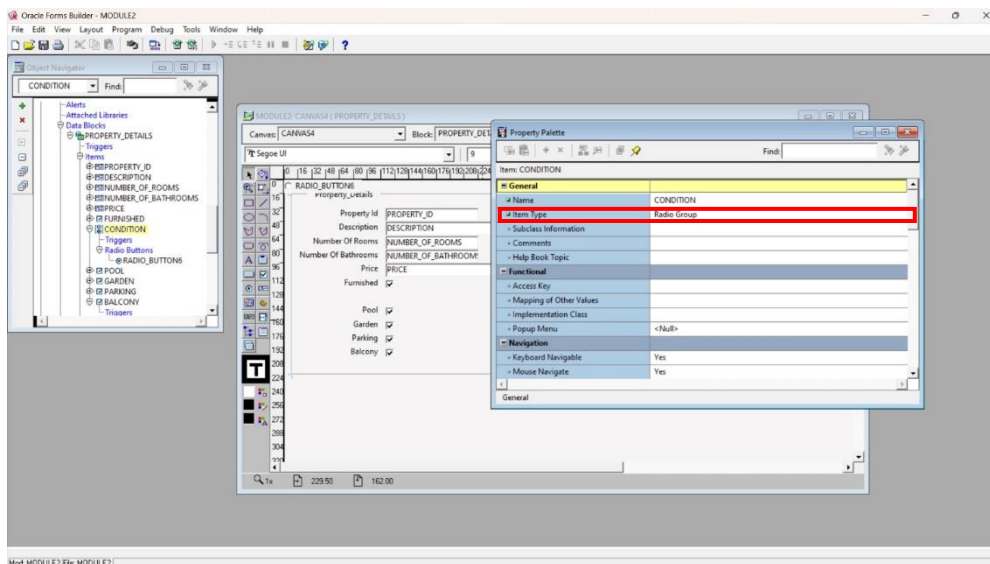


## Check Box:

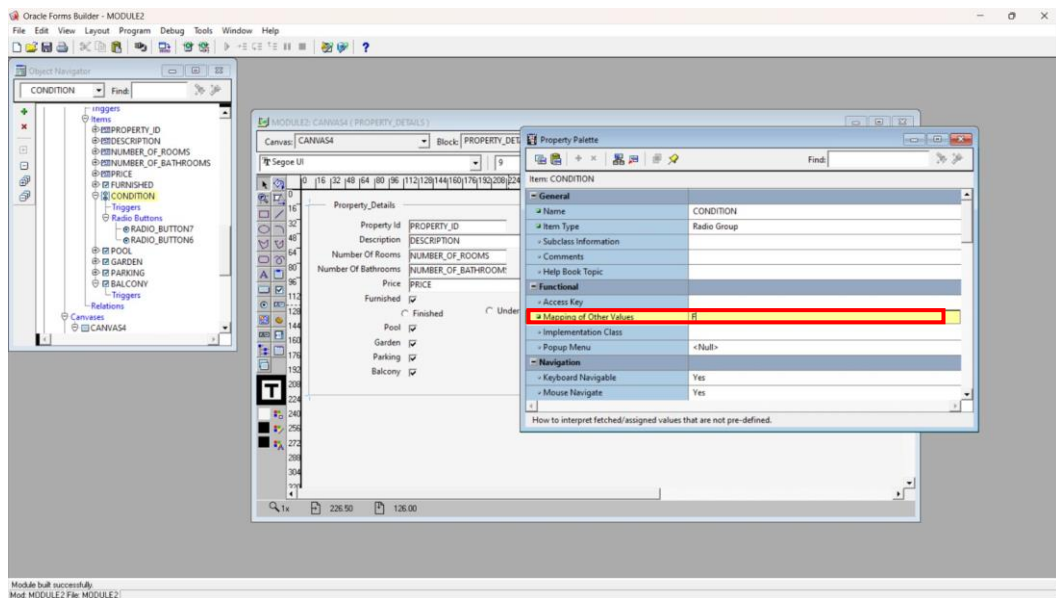
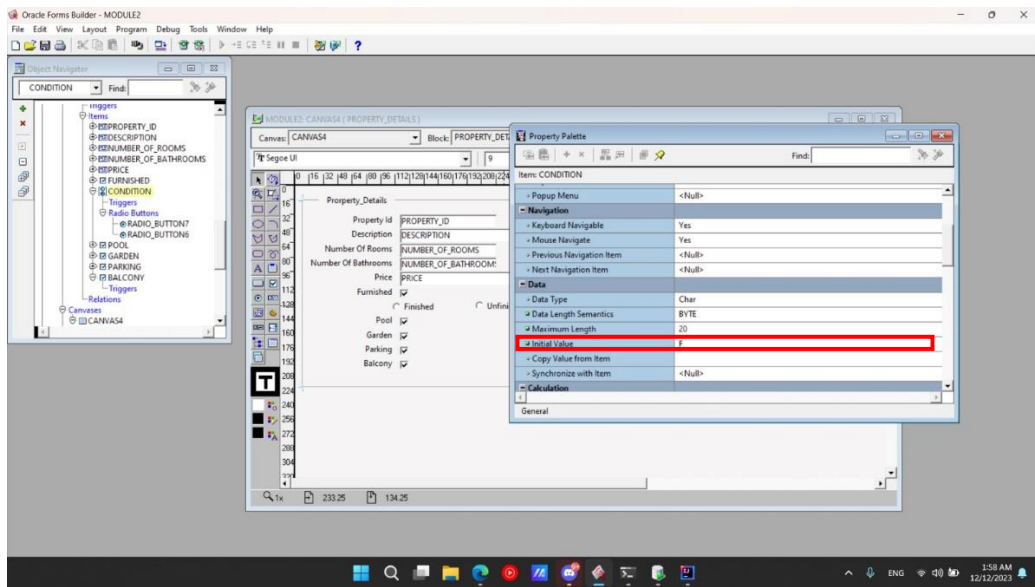




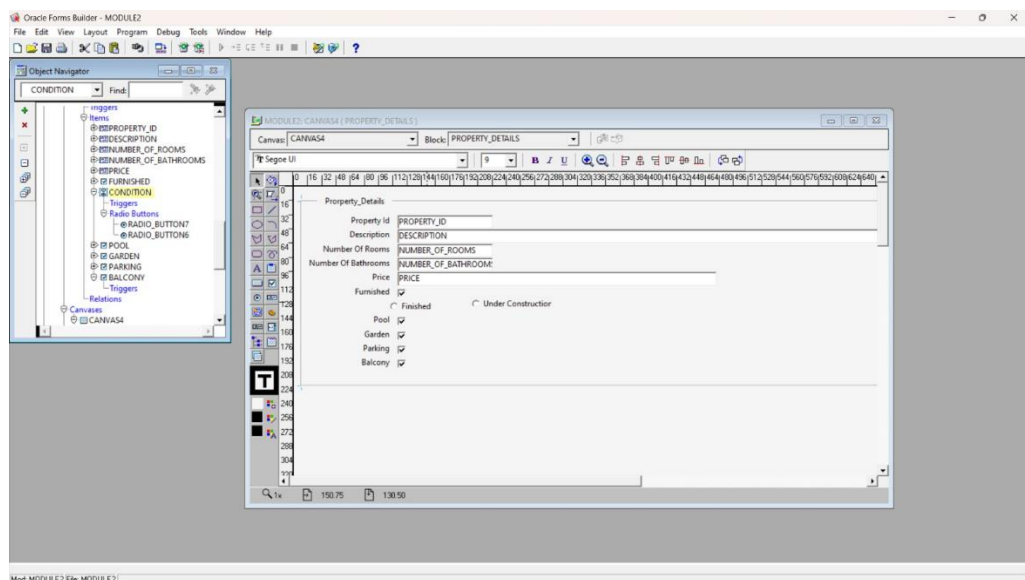
Radio Button:



Same for **RADIO\_BUTTON6**

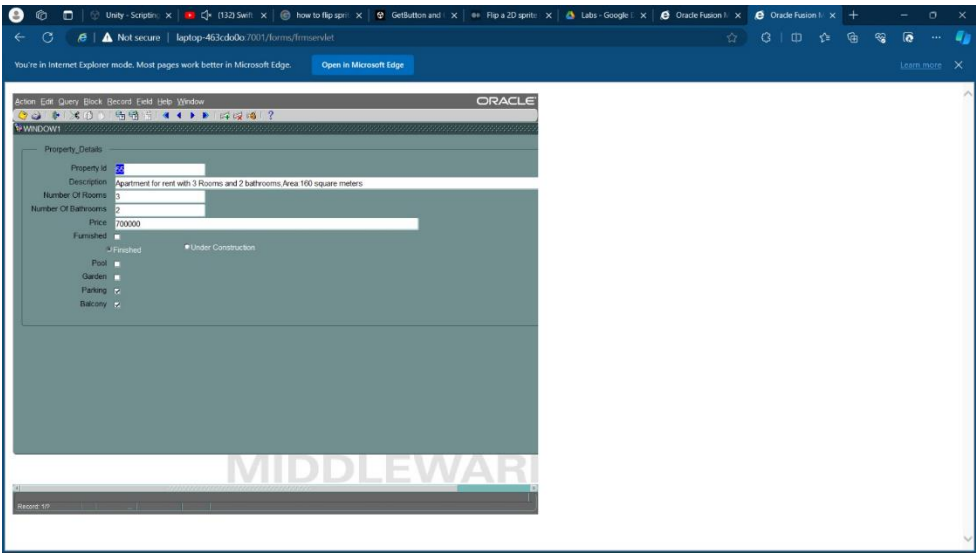


# Final Look

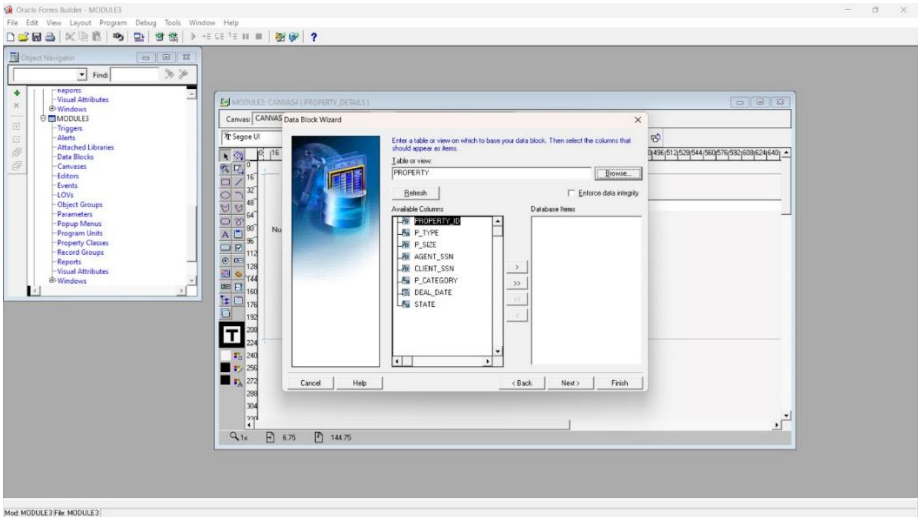




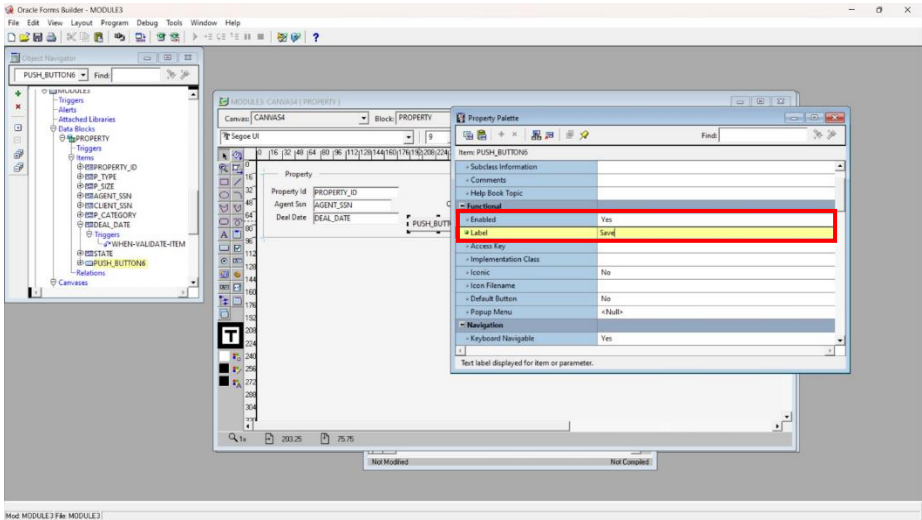
# Run



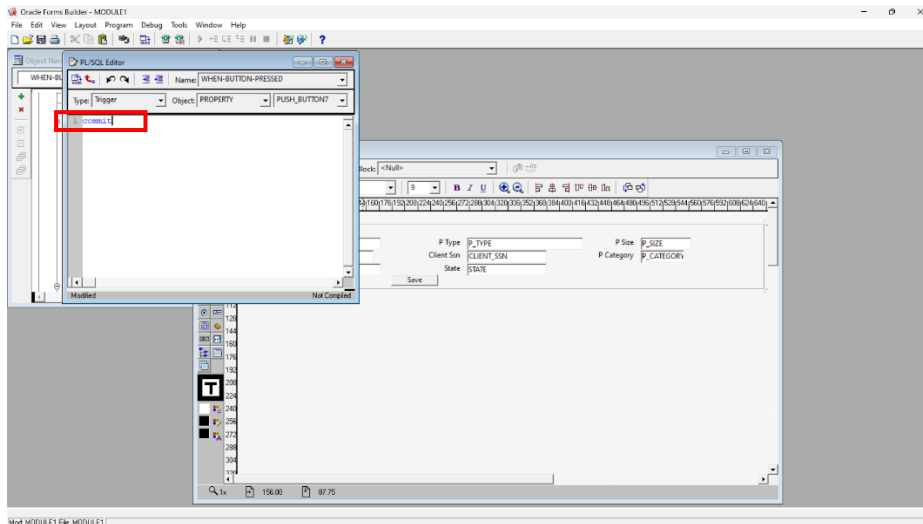
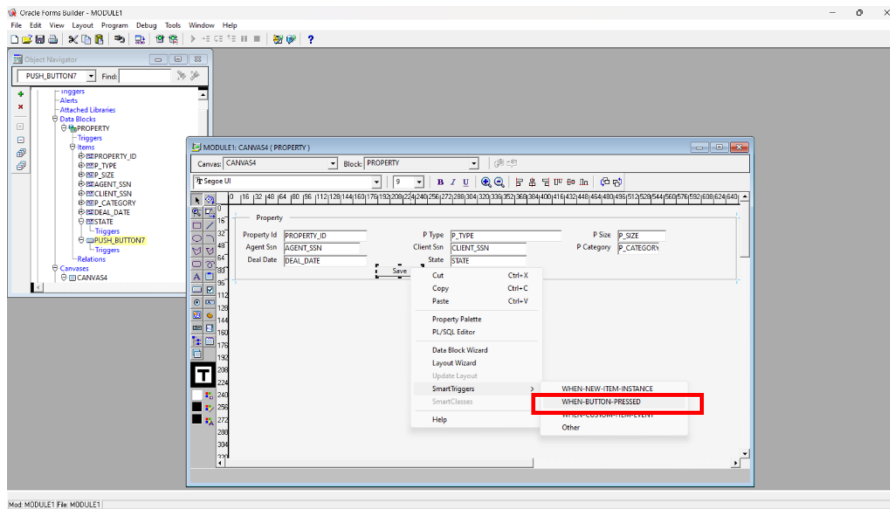
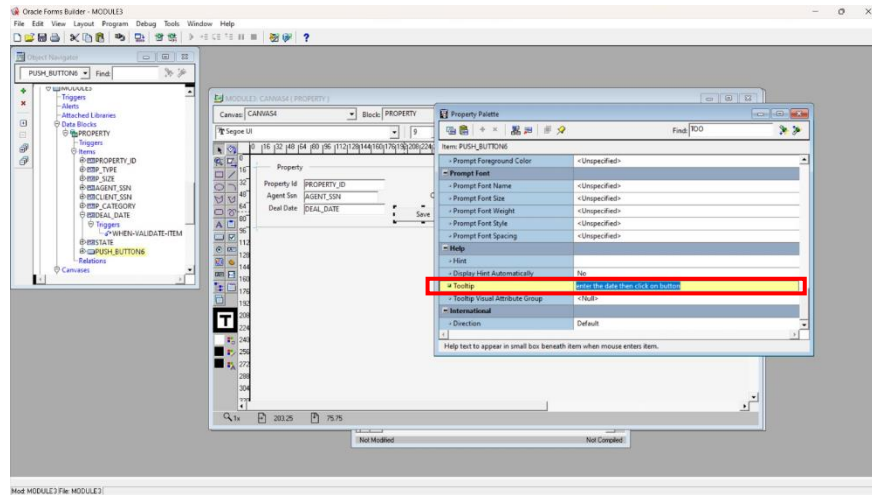
# Canvas 2:



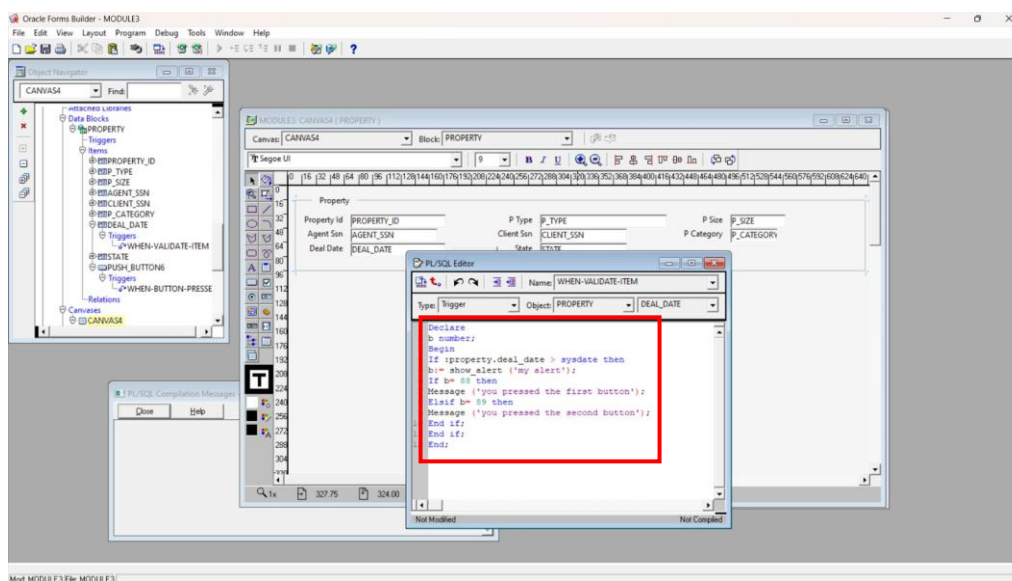
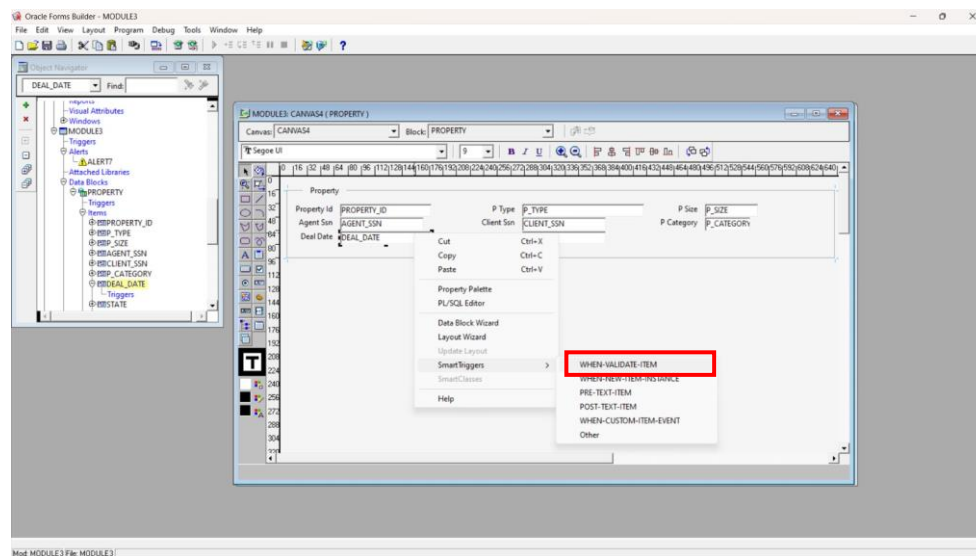
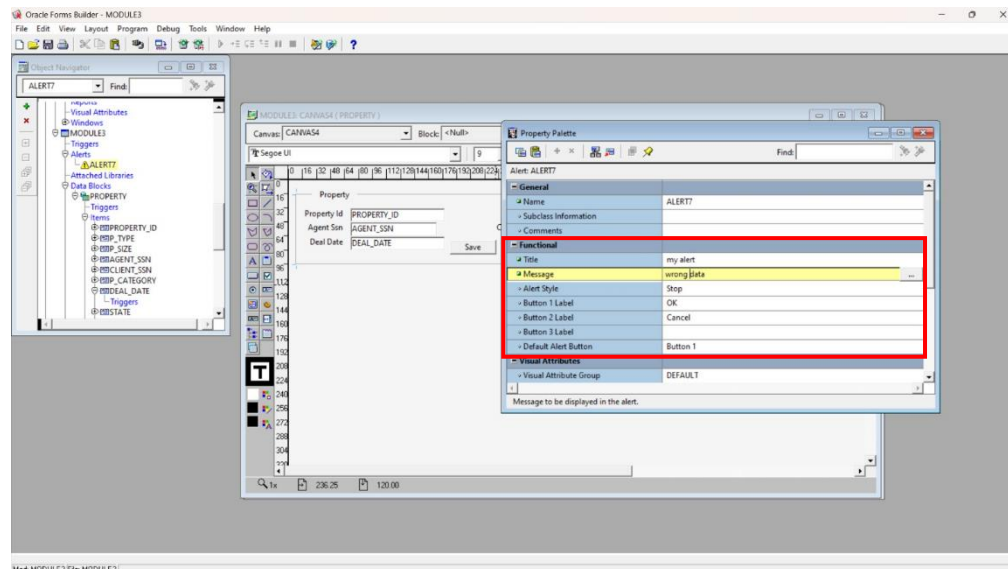
# Triggers: Create Button:



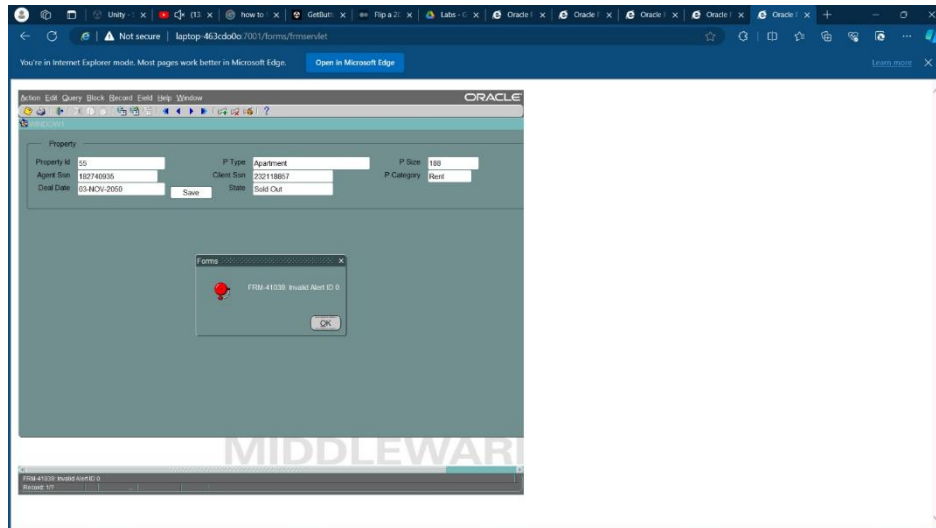




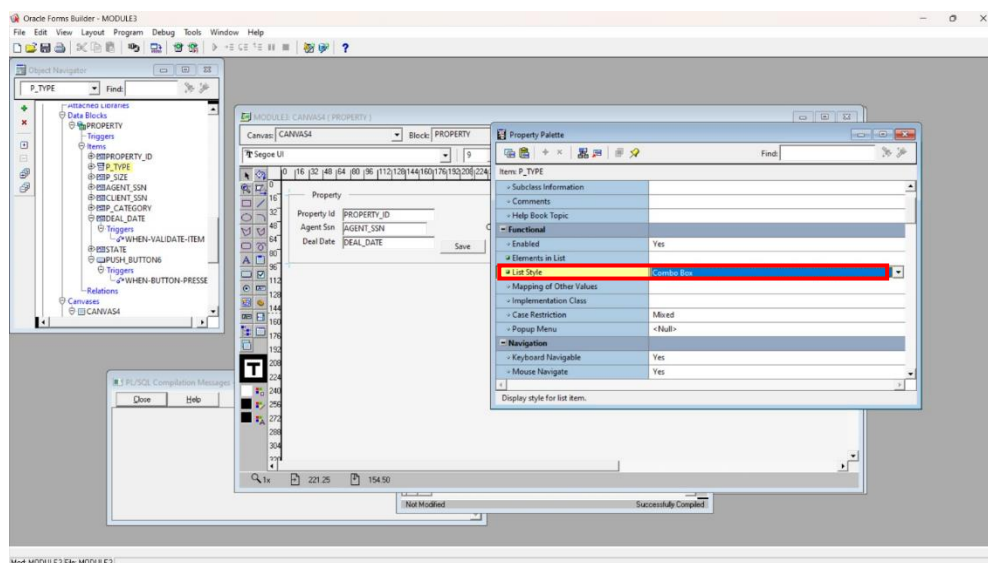
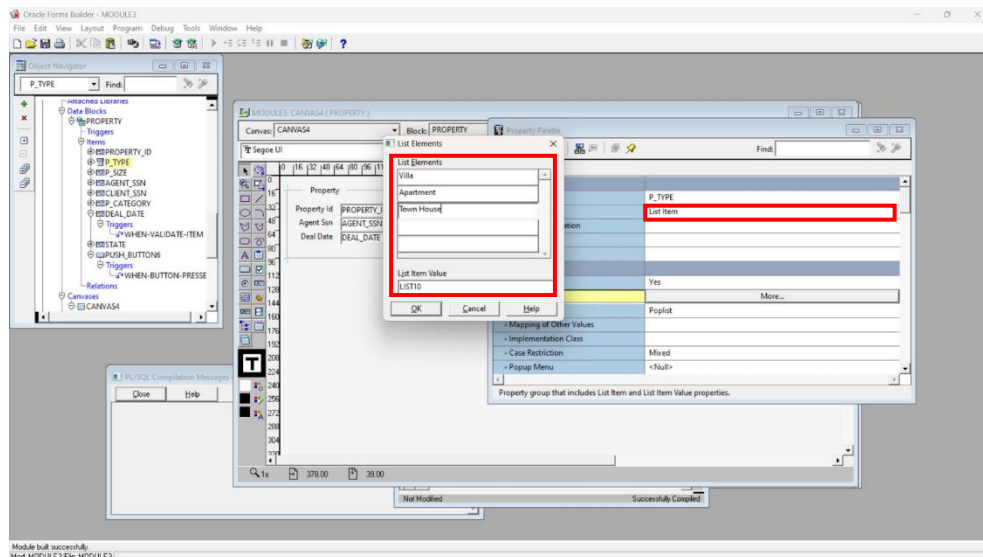
# Create Alert:



# Alert Run:

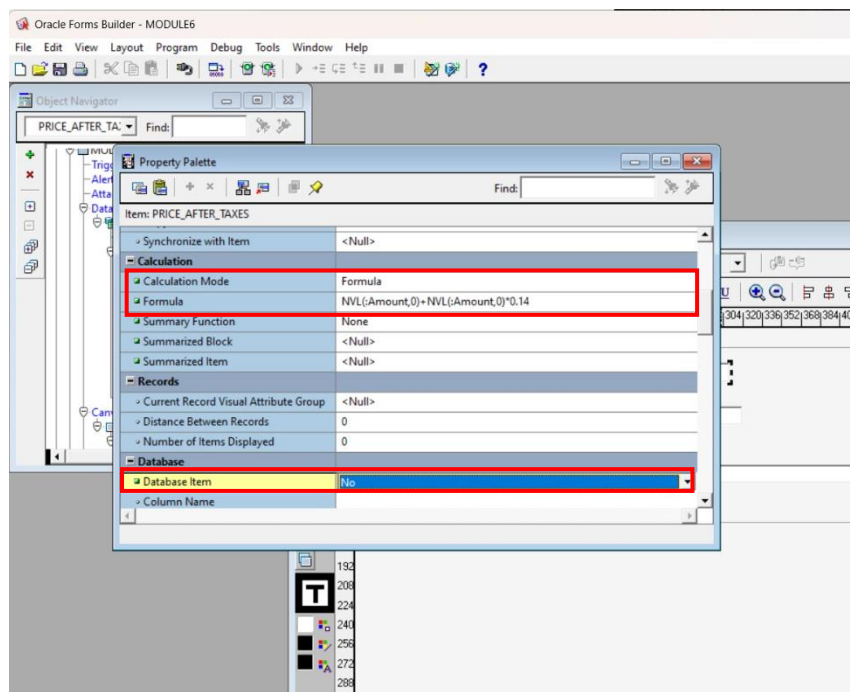
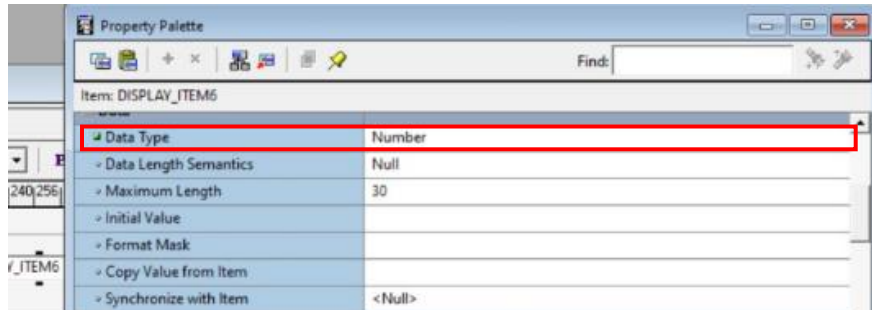


# Combo Box:

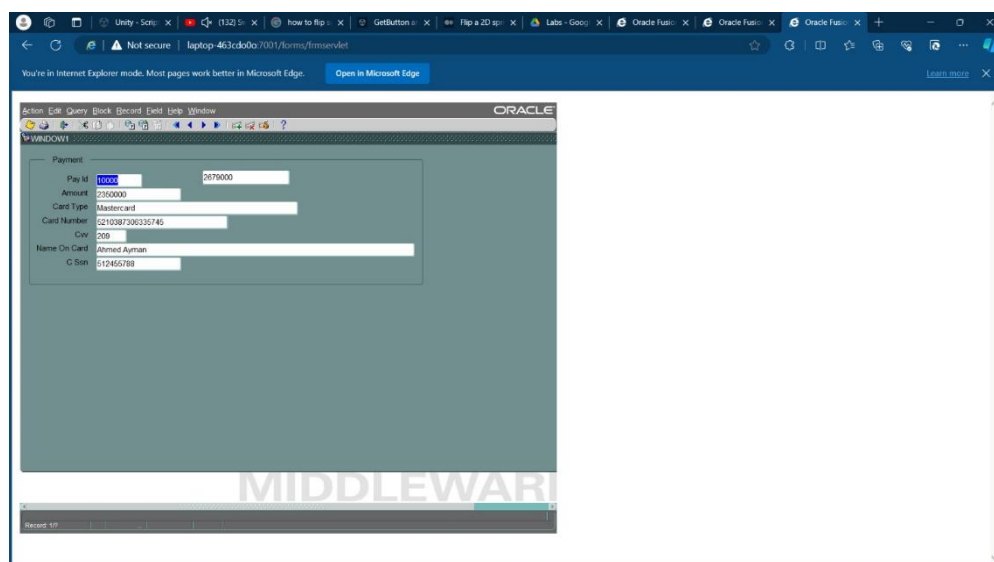


## Canvas 3:

### Calculated Field(Formula):

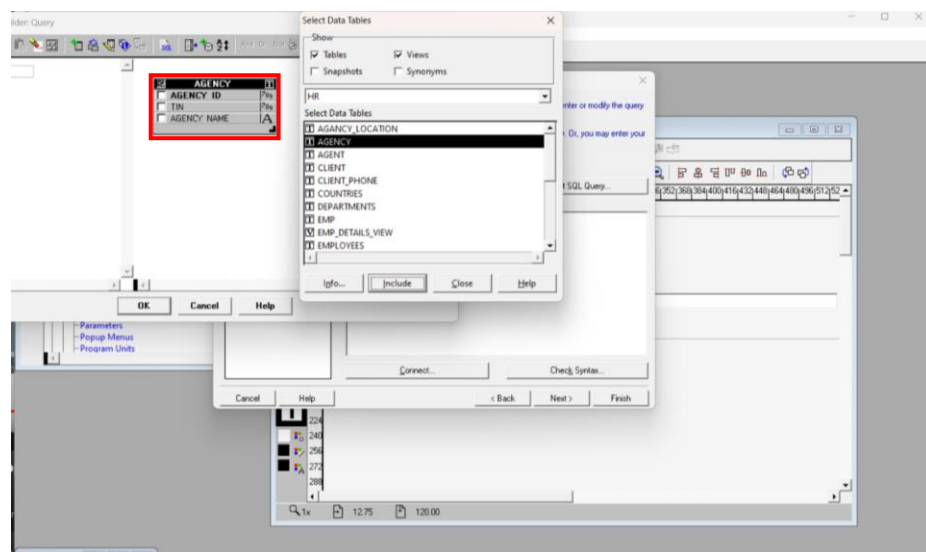
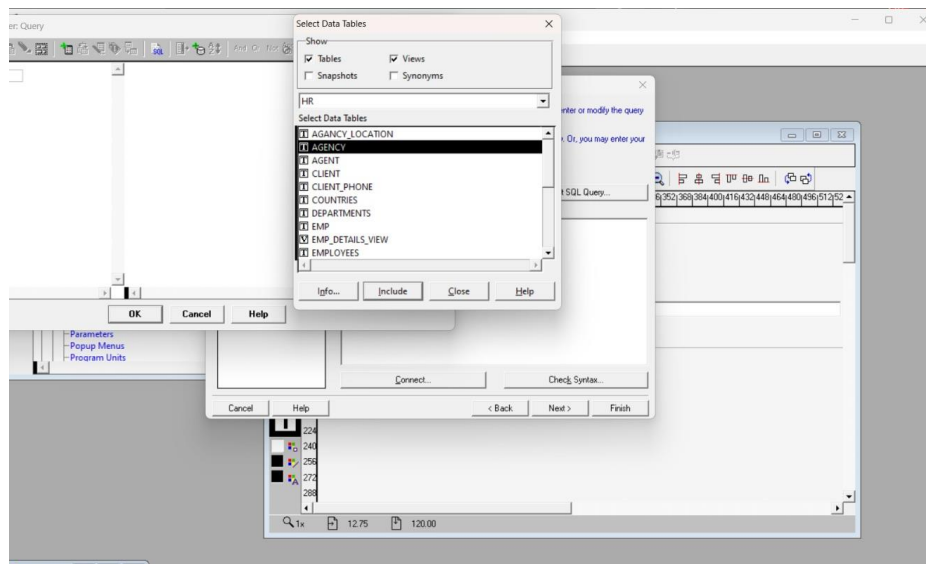
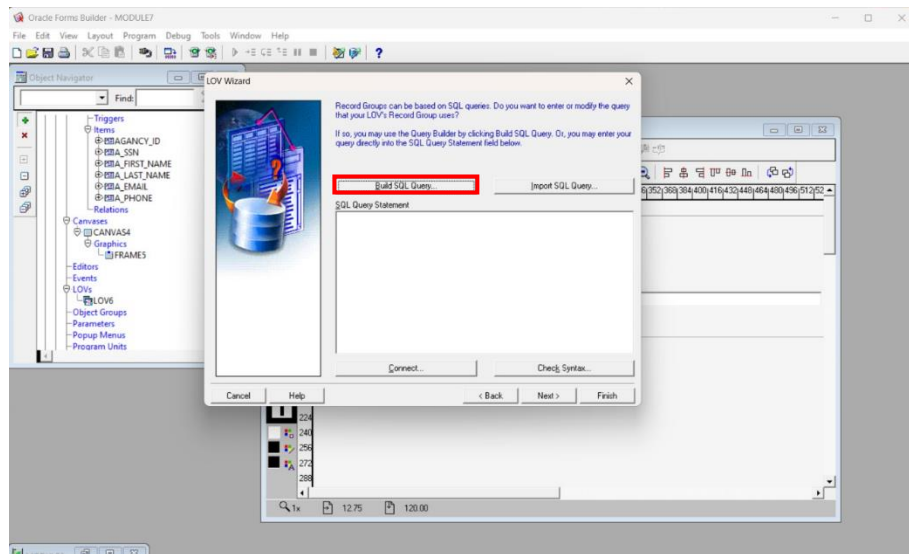


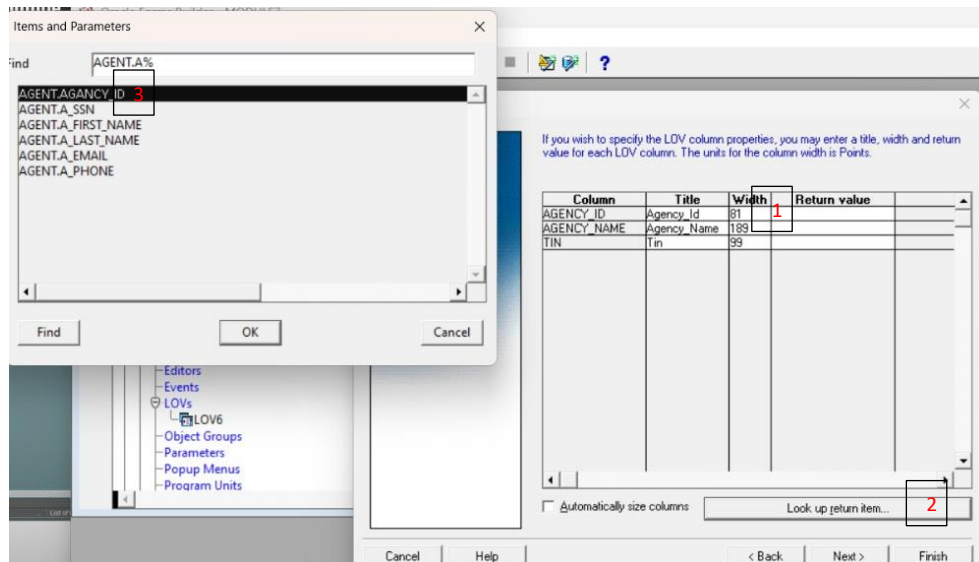
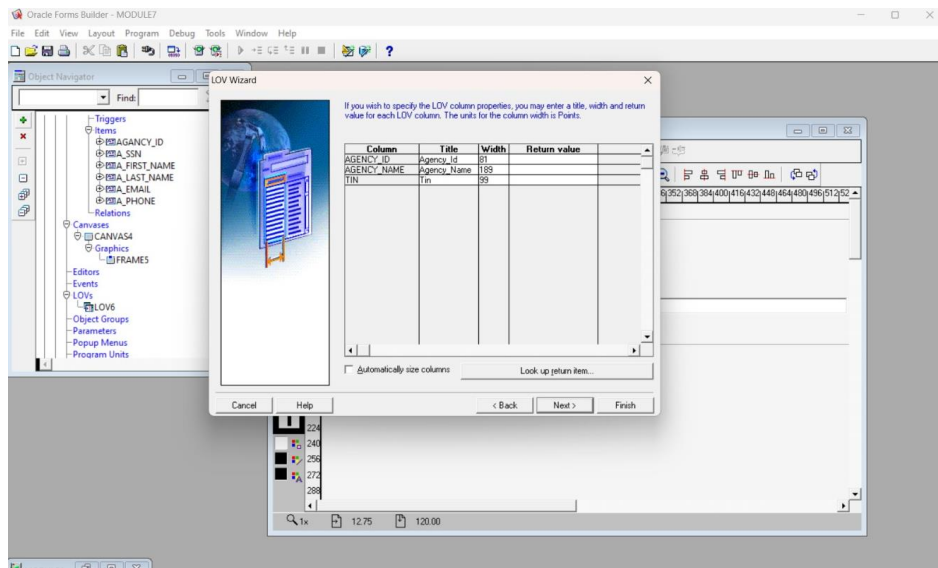
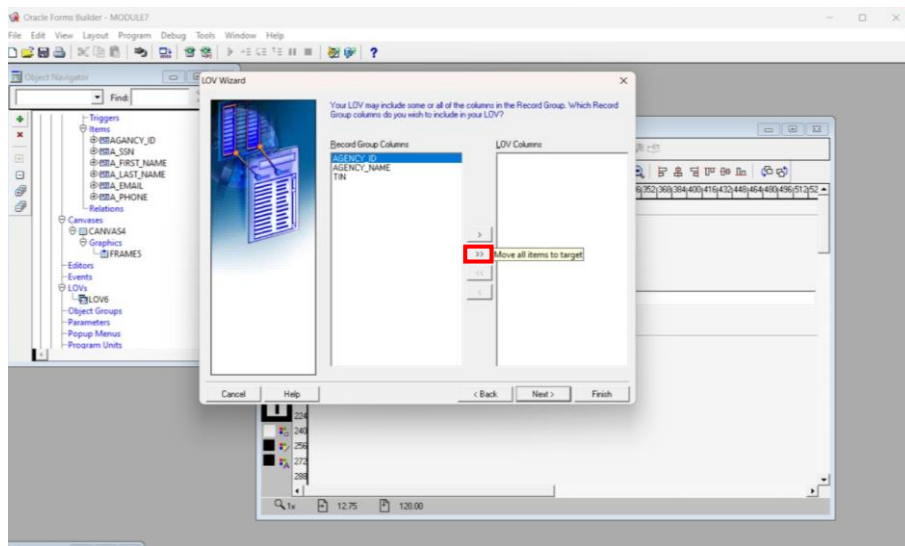
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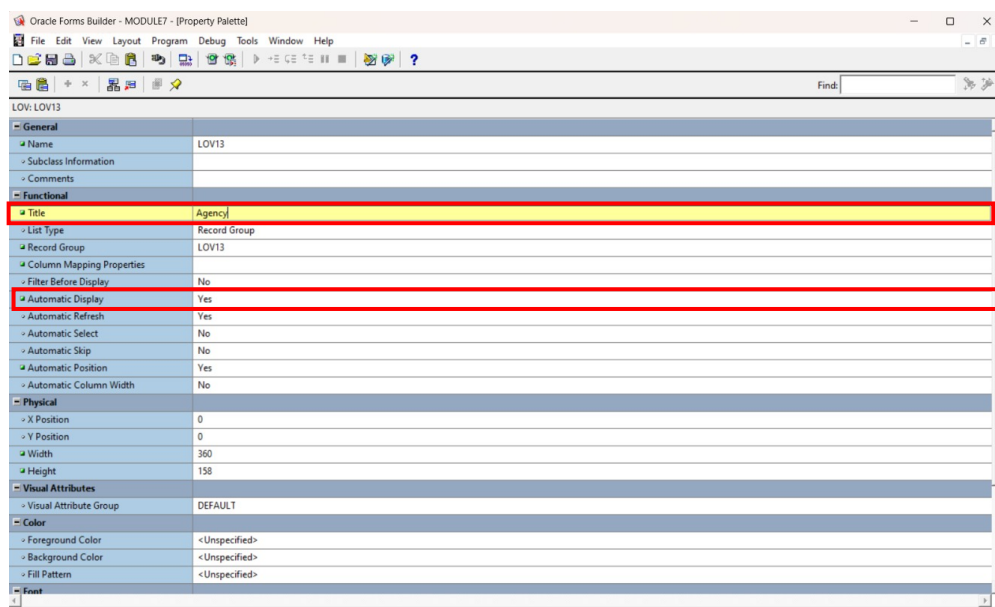
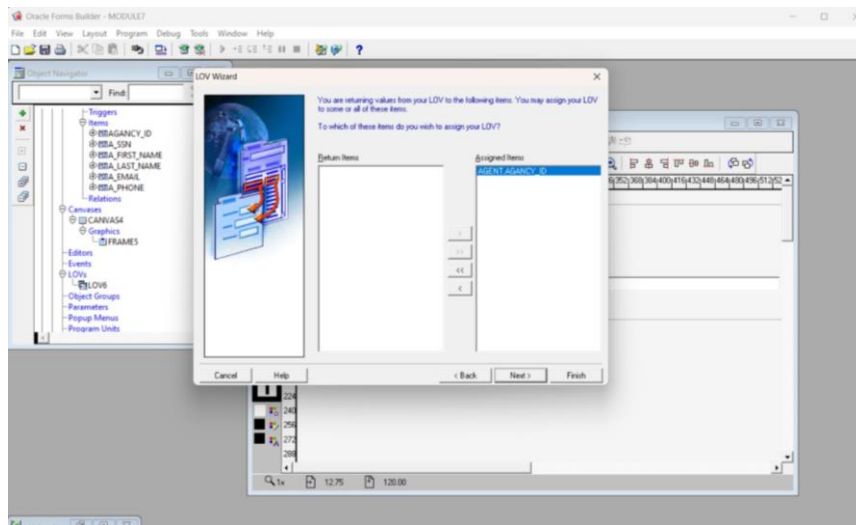
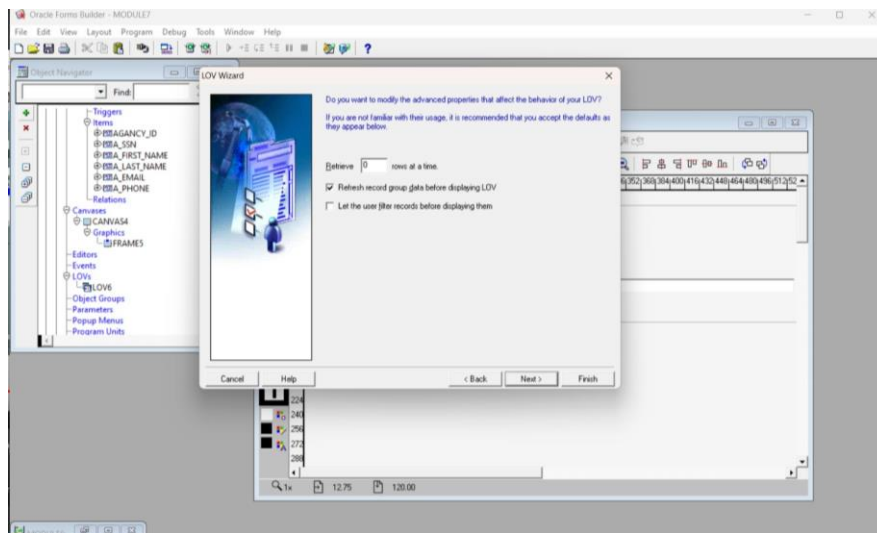


# Canvas 4:

## LOV:

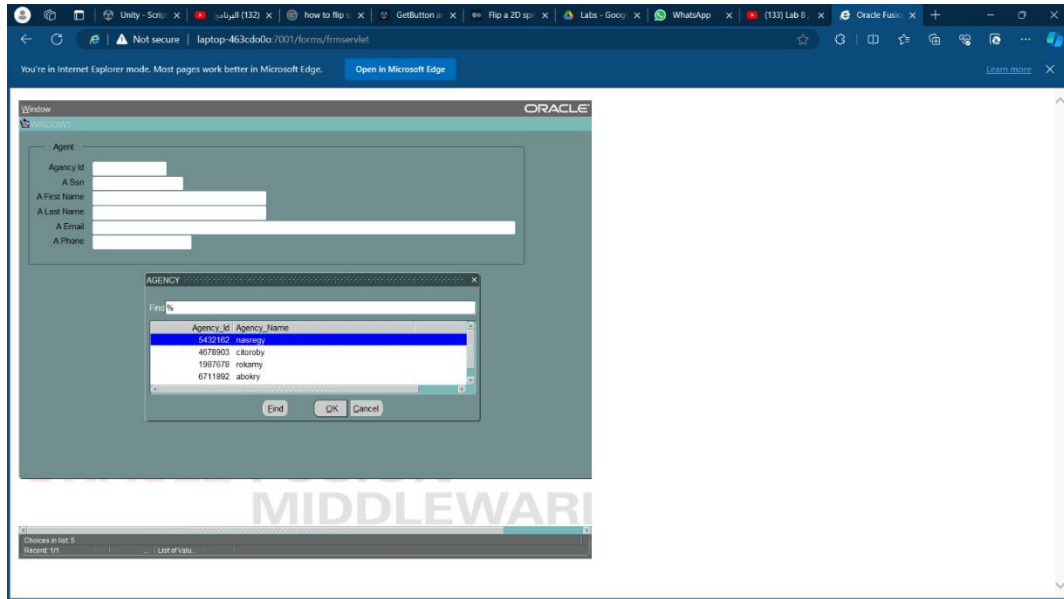






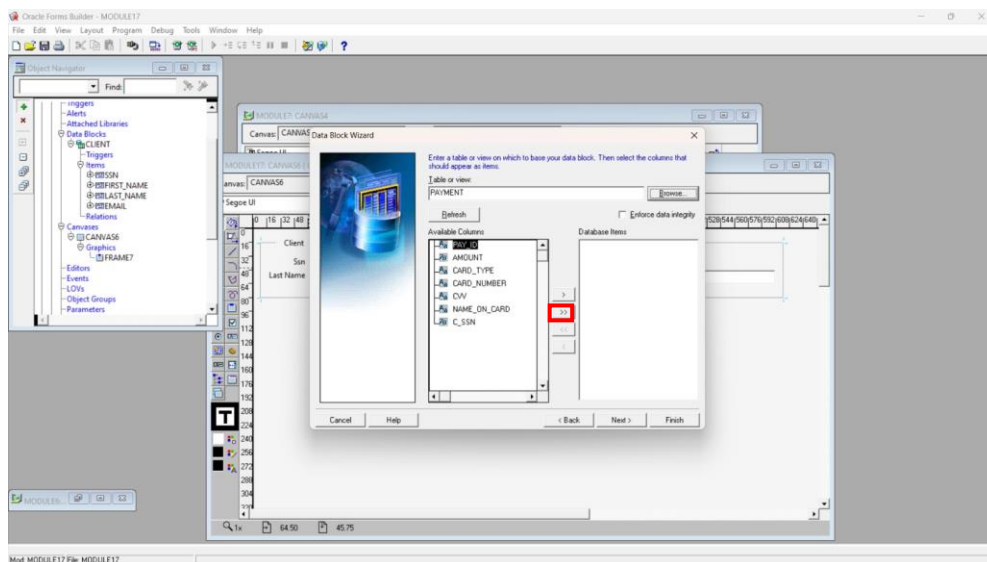
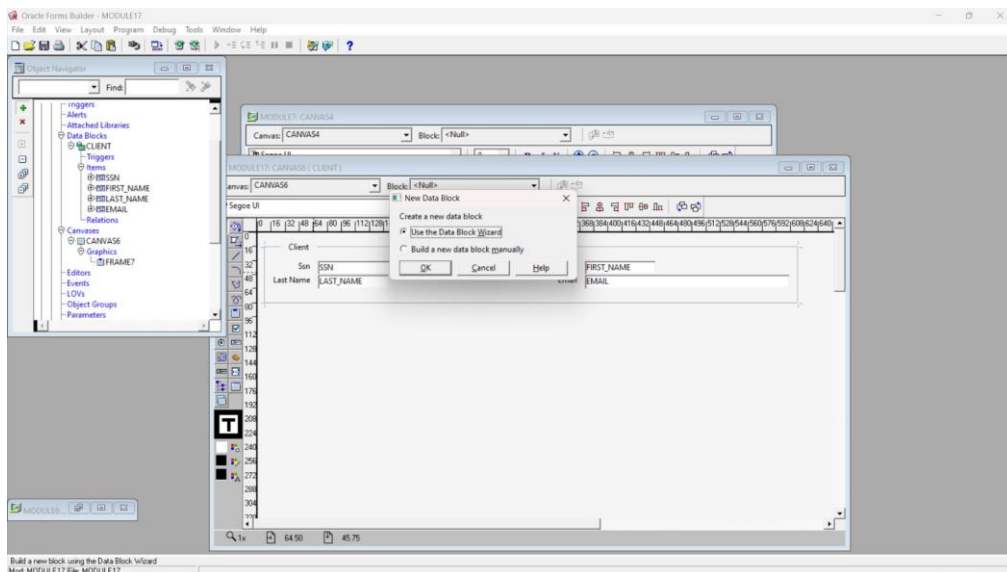


Run:

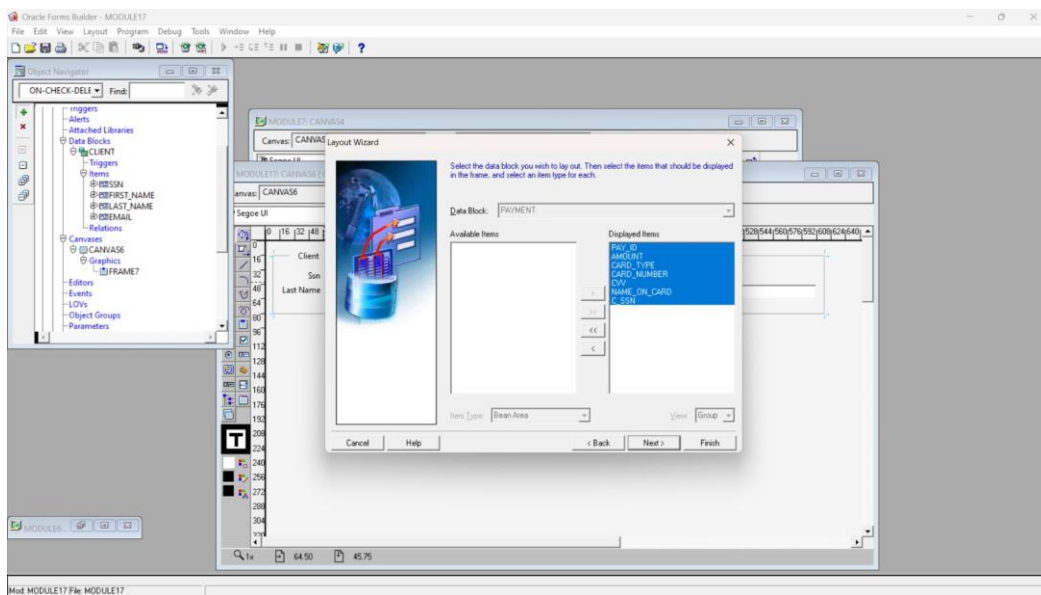
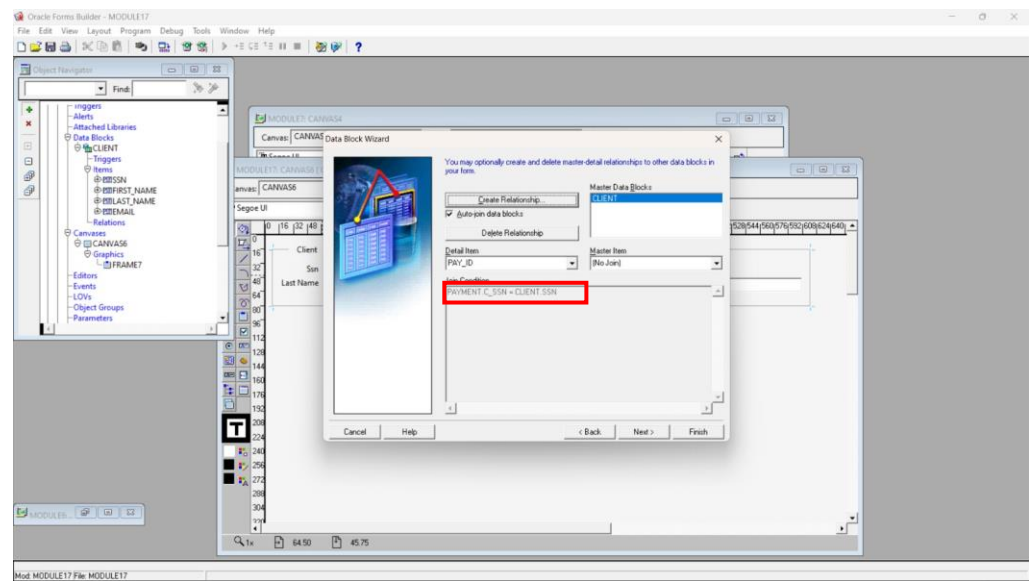
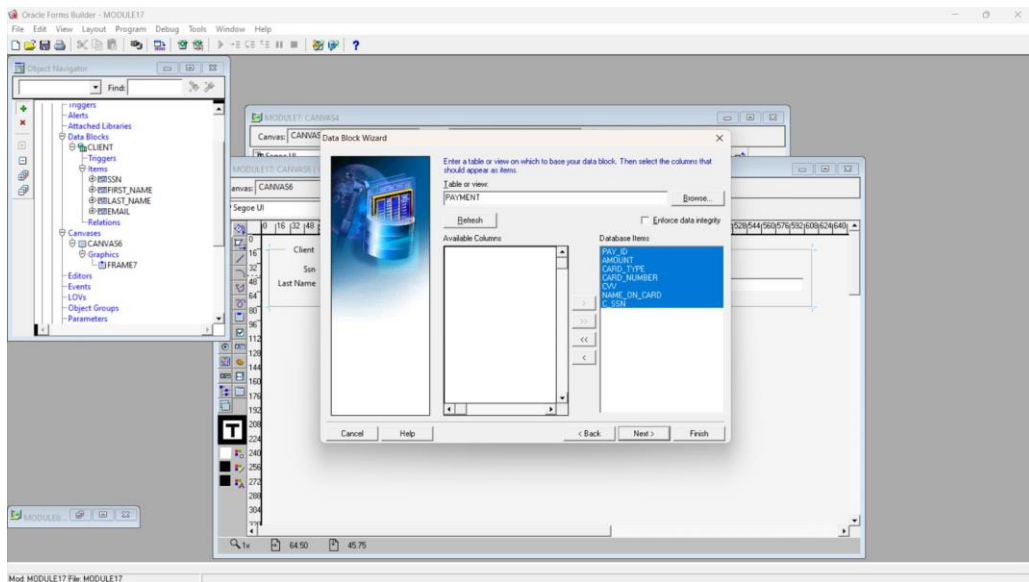


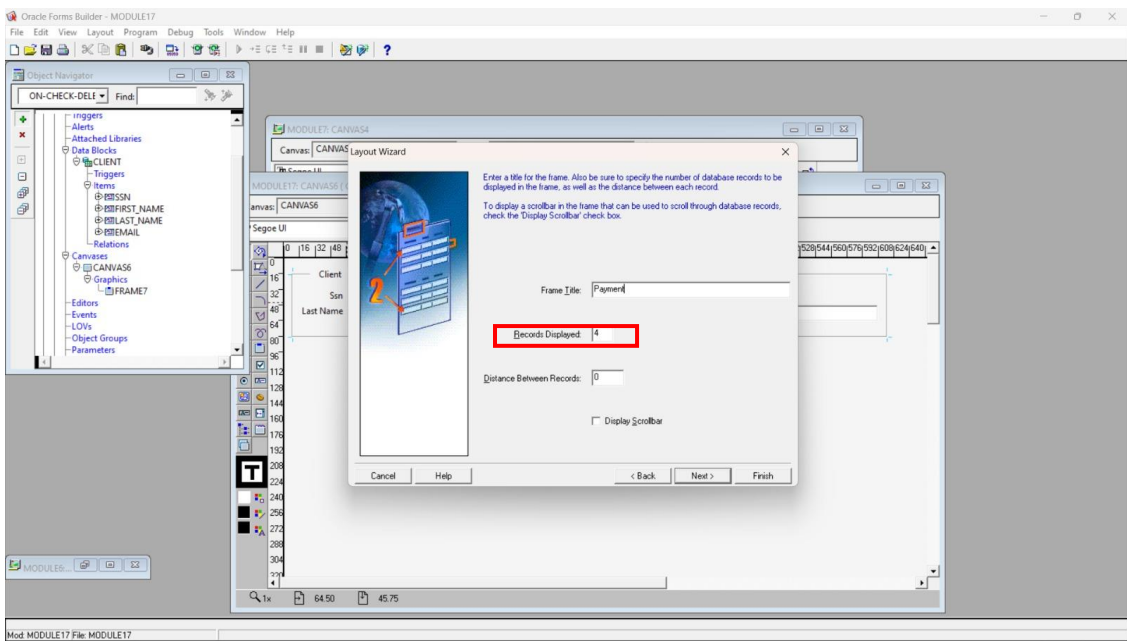
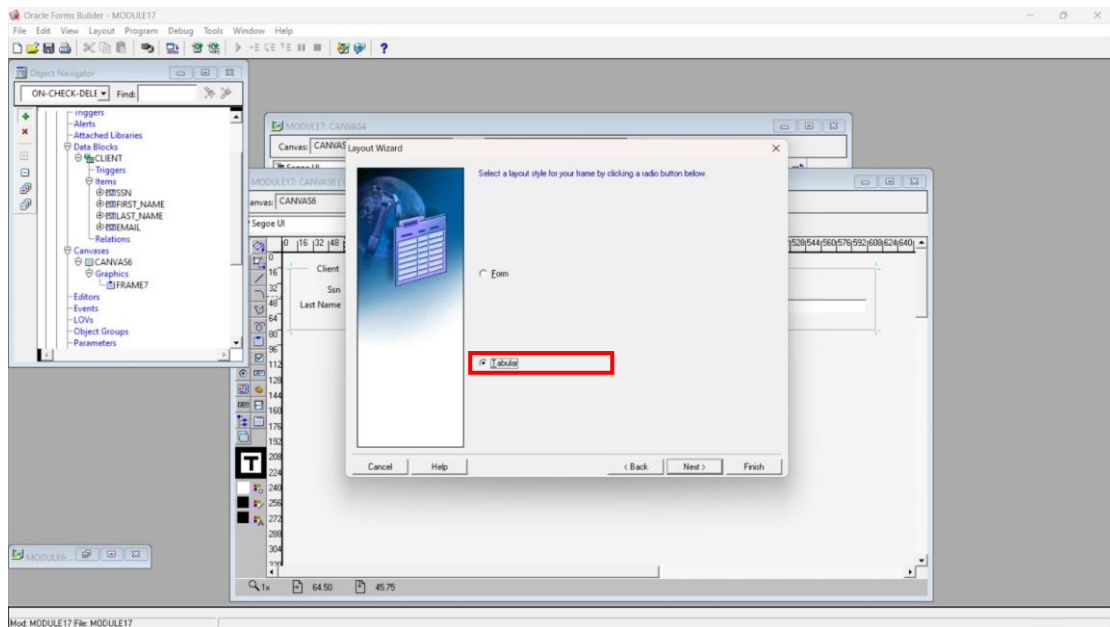
Canvas 5:

Master and Details:









Run:

