

# DBMS PROJECT

Property Finder

## SQL Script

```
CREATE TABLE OWNER(
    SSN NUMBER(14) UNIQUE NOT NULL,
    Gender VARCHAR2(6) check(Gender='female' OR Gender= 'male') NOT NULL,
    Owner_ID NUMBER(10) PRIMARY KEY,
    Username VARCHAR2(20) UNIQUE NOT NULL,
    OWNER_Password NUMBER(5) NOT NULL,
    Email VARCHAR2(25) NOT NULL
);
```

```
CREATE TABLE Client (
    CLI_ID NUMBER(10) PRIMARY KEY,
    Username VARCHAR2(50) UNIQUE NOT NULL,
    SSN NUMBER(14) UNIQUE NOT NULL,
    Date_Of_Birth DATE NOT NULL,
    Client_Password VARCHAR2(5) NOT NULL,
    Gender VARCHAR2(6) NOT NULL CHECK (Gender IN ('female', 'male')),
    Email VARCHAR2(25) NOT NULL,
    Preferred_Contact_Type VARCHAR2(25)
);
```

```
CREATE TABLE Property (
    Property_ID NUMBER(10) PRIMARY KEY,
    Property_Type VARCHAR2(10) NOT NULL,
    Status VARCHAR2(10) CHECK (Status IN ('rent', 'buy'))NOT NULL,
    Price NUMBER(10) CHECK (Price >= 500000)NOT NULL,
    Area NUMBER CHECK (Area > 0) NOT NULL,
    no_of_bathrooms NUMBER(10) NOT NULL,
    no_of_rooms NUMBER(10) NOT NULL,
    Owner_ID NUMBER(10) NOT NULL,
    FOREIGN KEY (Owner_ID) REFERENCES Owner(Owner_ID)
);
```

```
CREATE TABLE Property_Location(
    Location_ID NUMBER(10),
    Country VARCHAR2(30)NOT NULL ,
    City VARCHAR2(30)NOT NULL ,
    Postal_Code VARCHAR2(20) NOT NULL ,
    Address VARCHAR2(60) NOT NULL,
    PRIMARY KEY(Location_ID)
);
```

```
CREATE TABLE TRANSACTS(
    OWNER_ID NUMBER(10)
    REFERENCES OWNER (Owner_ID),
    CLI_ID NUMBER(10)
    REFERENCES Client (CLI_ID),
    TRANSACTS_DATE DATE NOT NULL,
    Payment_method VARCHAR2(20),
    Property_ID NUMBER(10) NOT NULL,
    PRIMARY KEY (CLI_ID,OWNER_ID)
);
```

```
CREATE TABLE Owner_Phone (
    PhoneNo VARCHAR2(30),
    Owner_ID NUMBER(10),
    PRIMARY KEY(Owner_ID, PhoneNo),
    FOREIGN KEY(Owner_ID)
    REFERENCES OWNER(Owner_ID)
);
```

```
CREATE TABLE Preferred_Property_Type (
    CLI_ID NUMBER(10),
    PreferredType VARCHAR2(50),
    PRIMARY KEY (CLI_ID, PreferredType),
    FOREIGN KEY (CLI_ID) REFERENCES Client(CLI_ID)
);
```

```
CREATE TABLE CLI_Phone (
    CLI_ID NUMBER(10),
    PhoneNo VARCHAR2(30) NOT NULL,
    PRIMARY KEY (CLI_ID, PhoneNo),
    FOREIGN KEY (CLI_ID) REFERENCES Client(CLI_ID)
);
```

```
CREATE TABLE Review(
    Property_Name VARCHAR2(50),
    CLI_ID NUMBER(10),
    Review_Comment VARCHAR2(100),
    Rating NUMBER(2) CHECK(Rating BETWEEN 0 AND 10),
    Review_day NUMBER(2) CHECK(Review_day BETWEEN 1 AND 31),
    Review_Month NUMBER(2) CHECK(Review_Month BETWEEN 1 AND 12),
    Review_Year NUMBER(4) CHECK(Review_Year > 2000),
```

```
Anonymous Char(30),
PRIMARY KEY(Property_Name,CLI_ID),
FOREIGN KEY(CLI_ID)
REFERENCES Client(CLI_ID)
);
```

```
CREATE TABLE Has (
    Property_ID NUMBER(10)
    REFERENCES Property(Property_ID),
    Location_ID NUMBER(10)
    REFERENCES Property_Location(Location_ID),
    PRIMARY KEY(Property_ID,Location_ID)
);
```

```
CREATE TABLE Transportation (
    Location_ID NUMBER(10),
    Transportation VARCHAR2(10),
    FOREIGN KEY(Location_ID)
    REFERENCES Property_Location(Location_ID),
    PRIMARY KEY(Location_ID,Transportation)
);
```

---

```
INSERT INTO OWNER(Owner_ID,Gender,SSN, Username,OWNER_Password,Email)
VALUES(500, 'female', 20221703024568, 'Fatma_Ahmed',34567 , 'fatmahjkl@gmail.com' );
INSERT INTO OWNER(Owner_ID,Gender,SSN, Username,OWNER_Password,Email)
VALUES(501, 'male',20231703024567 , 'Ahmed_Ali',67543 , 'Ahmedali@gmail.com' );
INSERT INTO OWNER(Owner_ID,Gender,SSN, Username,OWNER_Password,Email)
VALUES(503, 'male',20244678456789 , 'ALi_Ahmed' ,01234 , 'Ali@gmail.com' );
INSERT INTO OWNER(Owner_ID,Gender,SSN, Username,OWNER_Password,Email)
VALUES(504, 'female',20004678456789,'Mona_Ali',09876,'Mona@gmail.com' );
INSERT INTO OWNER(Owner_ID,Gender,SSN, Username,OWNER_Password,Email)
VALUES(502,'male',20244678456708 , 'Mohamed_Gamal ',04567 , 'Mgamal@gmail.com' );
```

```
INSERT INTO Client (CLI_ID,Username, SSN, Date_Of_Birth, Client_Password, Gender, Email,
Preferred_Contact_Type)
VALUES (2450382429, 'Jenney987', 83725713727713,'04-Jan-22', 'Jen7', 'female',
'jenney555@gmail.com', 'Email');
INSERT INTO Client (CLI_ID,Username, SSN, Date_Of_Birth, Client_Password, Gender, Email,
Preferred_Contact_Type)
```

```
VALUES (8534211999, 'Rusul009', 37015043543118,'11-Feb-22', 'Rus9', 'female',
'rusul009@gmail.com', 'Email');
INSERT INTO Client (CLI_ID,Username, SSN, Date_Of_Birth, Client_Password, Gender, Email,
Preferred_Contact_Type)
VALUES (8531141340, 'Noran112', 37677843543118,'12-Feb-23', '1234', 'female',
'noran332@gmail.com', 'Phone');
INSERT INTO Client (CLI_ID,Username, SSN, Date_Of_Birth, Client_Password, Gender, Email,
Preferred_Contact_Type)
VALUES (1114211340, 'Mary71110', 37015043444119,'08-May-18', '1239', 'female',
'mary001@gmail.com', 'Email');
INSERT INTO Client (CLI_ID,Username, SSN, Date_Of_Birth, Client_Password, Gender, Email,
Preferred_Contact_Type)
VALUES (8534211340, 'Tony', 37015000233118,'19-Jul-01', '0124', 'male', 'tony@gmail.com',
'Phone');
```

```
INSERT INTO Property (Property_ID,Property_Type, Status, Price, Area, no_of_bathrooms,
no_of_rooms, Owner_ID)
VALUES (1, 'Apartment', 'rent', 500000, 100, 2, 3, 504);
INSERT INTO Property (Property_ID,Property_Type, Status, Price, Area, no_of_bathrooms,
no_of_rooms, Owner_ID)
VALUES (2, 'House', 'buy', 600000, 150, 3, 4, 501);
INSERT INTO Property (Property_ID,Property_Type, Status, Price, Area, no_of_bathrooms,
no_of_rooms, Owner_ID)
VALUES (3, 'Villa', 'rent', 700000, 200, 4, 5, 502);
INSERT INTO Property (Property_ID,Property_Type, Status, Price, Area, no_of_bathrooms,
no_of_rooms, Owner_ID)
VALUES (4, 'Penthouse', 'buy', 800000, 250, 5, 6, 504);
INSERT INTO Property (Property_ID,Property_Type, Status, Price, Area, no_of_bathrooms,
no_of_rooms, Owner_ID)
VALUES (5, 'Studio', 'rent', 500000, 50, 1, 1, 503);
```

```
INSERT INTO Property_Location (Location_ID,Country,City,Postal_Code,Address)
VAIUES(300 , 'Japan' , 'Tokyo', 1243565 , '3-7-1 Ginza, Chuo' );
INSERT INTO Property_Location (Location_ID,Country,City,Postal_Code,Address)
VAIUES(301 , 'Egypt' , 'Cairo', 12434635,'5 Hassan Sabry Street, Zamalek' );
INSERT INTO Property_Location (Location_ID,Country,City,Postal_Code,Address)
VAIUES(302 , 'Germany' , 'Berlin', 4556623 , 'Kurfürstendamm 231, 10719' );
INSERT INTO Property_Location (Location_ID,Country,City,Postal_Code,Address)
VAIUES(303 , 'Brazil' , 'Salvador', 3455532,'Avenida Tancredo Neves' );
INSERT INTO Property_Location (Location_ID,Country,City,Postal_Code,Address)
VAIUES(304 , 'Japan' , 'kyoto', 4345555, '19-1 Higashiyama-ku, Gion-machi');
```

```
INSERT INTO Owner_Phone(PhoneNo,Owner_ID)
VALUES( '01102345061',500 );
INSERT INTO Owner_Phone(PhoneNo,Owner_ID)
VALUES( '01234567891',502 );
INSERT INTO Owner_Phone(PhoneNo,Owner_ID)
VALUES( '011225678342',501 );
INSERT INTO Owner_Phone(PhoneNo,Owner_ID)
VALUES('01023377895' ,503 );
INSERT INTO Owner_Phone(PhoneNo,Owner_ID)
VALUES('01009899765' , 504);
```

```
INSERT INTO Preferred_Property_Type (CLI_ID, Preferredtype )
VALUES (2450382429, 'House');
INSERT INTO Preferred_Property_Type (CLI_ID, Preferredtype )
VALUES (8534211340, 'Apartment');
INSERT INTO Preferred_Property_Type (CLI_ID, Preferredtype )
VALUES (8534211999, 'Office');
INSERT INTO Preferred_Property_Type (CLI_ID, Preferredtype )
VALUES (1114211340, 'Apartment');
INSERT INTO Preferred_Property_Type (CLI_ID, Preferredtype )
VALUES (8534211340, 'Retail space');
```

```
INSERT INTO TRANSACTS(OWNER_ID,TRANSACTS_DATE,Payment_method,Property_ID,
CLI_ID)
VALUES(500 , '02-Feb-23' , 'Cash', 3,2450382429);
INSERT INTO TRANSACTS(OWNER_ID,TRANSACTS_DATE,Payment_method,Property_ID,
CLI_ID)
VALUES(502 , '14-Feb-22' , 'Cash',1,8534211340 );
INSERT INTO TRANSACTS(OWNER_ID,TRANSACTS_DATE,Payment_method,Property_ID,
CLI_ID)
VALUES(503 , '12-Jan-20' , 'Visa',2 ,8531141340);
INSERT INTO TRANSACTS(OWNER_ID,TRANSACTS_DATE,Payment_method,Property_ID,
CLI_ID)
VALUES(504 , '04-MAY-21' , 'Visa',4,1114211340 );
INSERT INTO TRANSACTS(OWNER_ID,TRANSACTS_DATE,Payment_method,Property_ID,
CLI_ID)
VALUES( 501,'04-Jan-22' , 'Cash', 5,8534211999);
```

```
INSERT INTO Transportation (Location_ID, Transportation)
VALUES (300, 'Car');
INSERT INTO Transportation (Location_ID, Transportation)
```

```

VALUES (301, 'Bus');
INSERT INTO Transportation (Location_ID, Transportation)
VALUES (301, 'Train');
INSERT INTO Transportation (Location_ID, Transportation)
VALUES (302, 'Train');
INSERT INTO Transportation (Location_ID, Transportation)
VALUES (304, 'Train');
INSERT INTO Transportation (Location_ID, Transportation)
VALUES (303, 'Plane');
INSERT INTO Transportation (Location_ID, Transportation)
VALUES (304, 'Bike');

INSERT INTO Review
(Property_Name,CLI_ID,Review_Comment,Rating,Review_day,Review_Month,Review_Year,Anonymous)
VALUES('Serene Haven Cottage', 2450382429, 'Wonderful place to relax!', 5, 5, 12, 2022,'no');
INSERT INTO Review
(Property_Name,CLI_ID,Review_Comment,Rating,Review_day,Review_Month,Review_Year,Anonymous)
VALUES('Maplewood Manor', 8534211340, 'Great place with lovely surroundings.', 4, 12, 9, 2023,'no');
INSERT INTO Review
(Property_Name,CLI_ID,Review_Comment,Rating,Review_day,Review_Month,Review_Year,Anonymous)
VALUES('Lakeside Retreat Apartments', 8534211340, 'Excellent amenities and friendly staff.', 5, 25, 8, 2020,'yes');
INSERT INTO Review
(Property_Name,CLI_ID,Review_Comment,Rating,Review_day,Review_Month,Review_Year,Anonymous)
VALUES('Summit Plaza Tower', 1114211340, 'Convenient location for business meetings.', 4, 8, 9, 2020,'yes');
INSERT INTO Review
(Property_Name,CLI_ID,Review_Comment,Rating,Review_day,Review_Month,Review_Year,Anonymous)
VALUES('Seaside Paradise Villa', 8531141340, 'Breathtaking views and peaceful atmosphere.', 5, 17, 8, 2022,'yes');

```

```

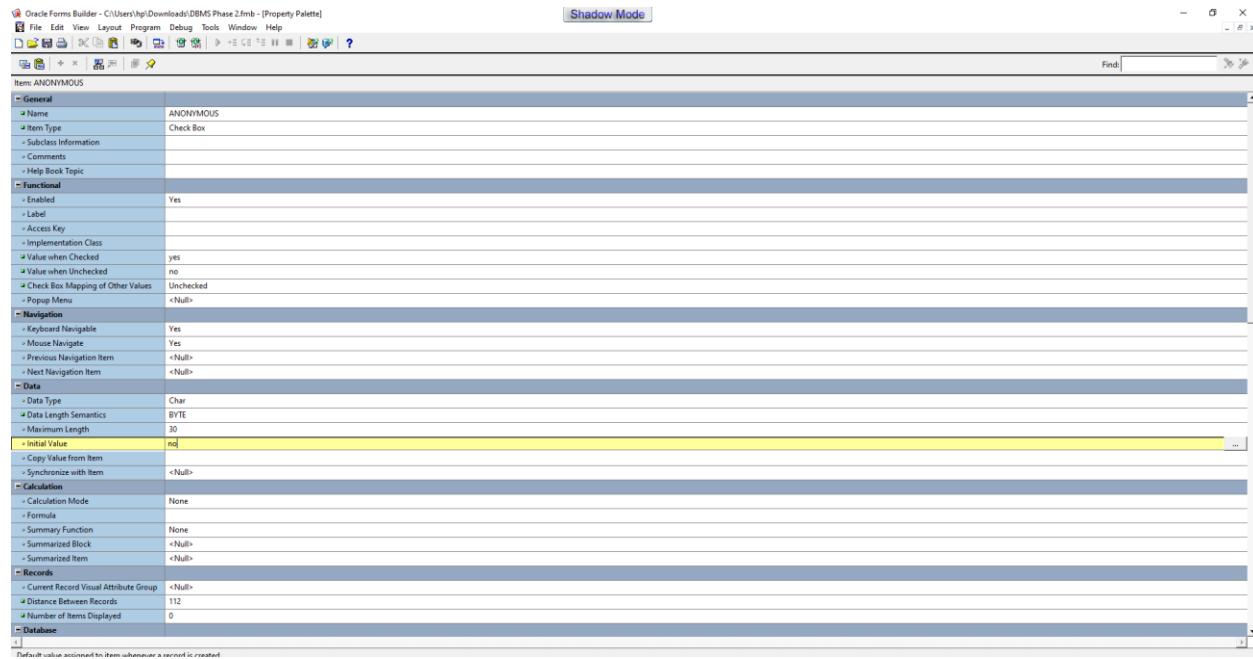
INSERT INTO Has (Property_ID, Location_ID)VALUES (1, 301);
INSERT INTO Has (Property_ID, Location_ID)VALUES (2,302);
INSERT INTO Has (Property_ID, Location_ID)VALUES (3, 303);
INSERT INTO Has (Property_ID, Location_ID)VALUES (4,304);
INSERT INTO Has (Property_ID, Location_ID)VALUES (5, 300);

```

```
INSERT INTO CLI_Phone (CLI_ID, phoneNo) VALUES (2450382429, '01598765423');  
INSERT INTO CLI_Phone (CLI_ID, phoneNo) VALUES (8534211999, '01592366423');  
INSERT INTO CLI_Phone (CLI_ID, phoneNo) VALUES (8531141340, '01198765423');  
INSERT INTO CLI_Phone (CLI_ID, phoneNo) VALUES (1114211340, '01198788823');  
INSERT INTO CLI_Phone (CLI_ID, phoneNo) VALUES (8534211340, '01098761233');
```

# Check Box

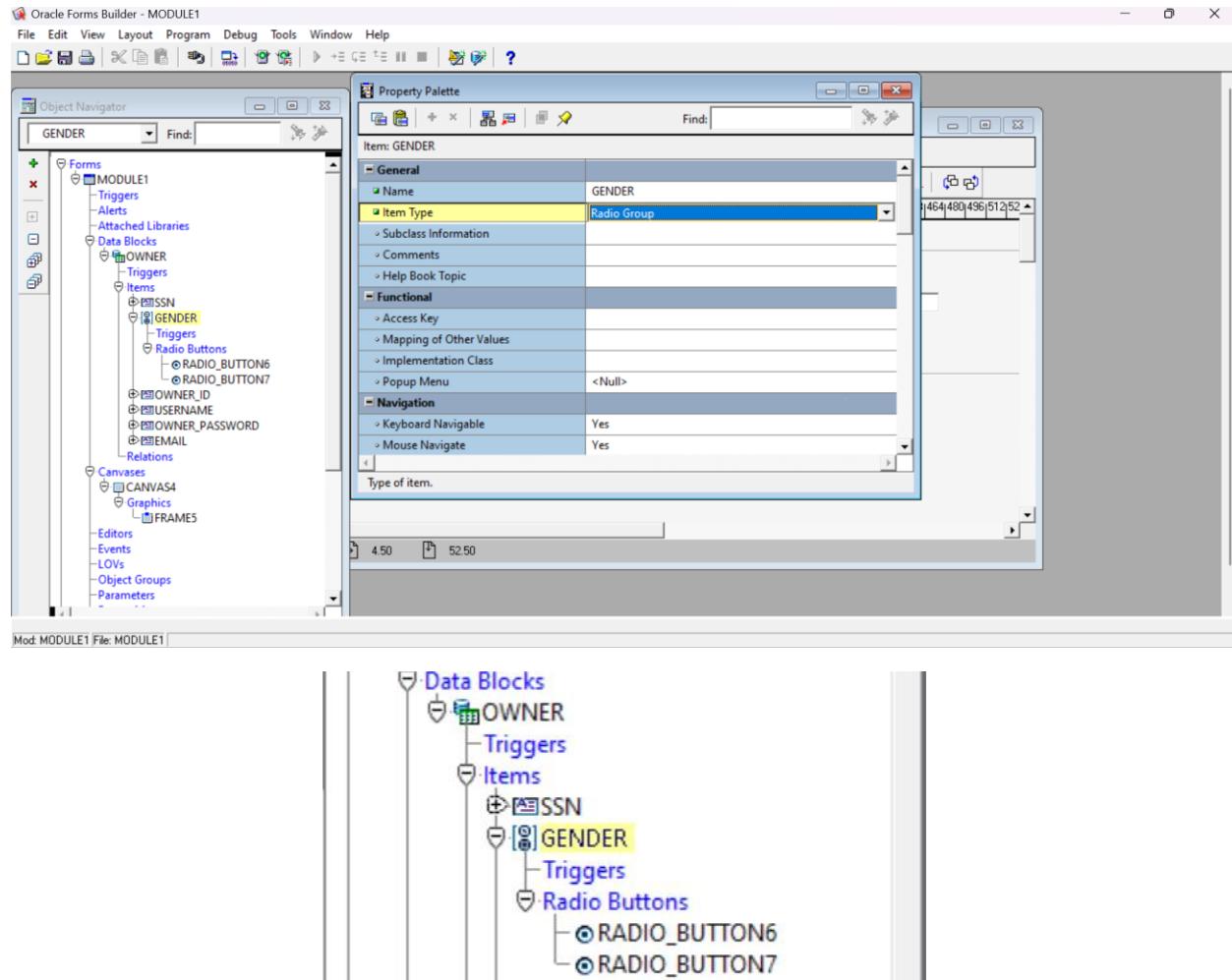
(Anonymous Review)



Property data			
Property Id	PROPERTY_ID	Property Type	PROPERTY_TYPE
Price	PRICE	Area	AREA
No Of Rooms	NO_OF_ROOMS	Owner Id	OWNER_ID
		Status	STATUS
		No Of Bathrooms	NO_OF_BATHROOMS
		Average Rating	AVGRATING
location			
City	CITY		
Country	COUNTRY		
Address	ADDRESS		
Location Id	LOCATION_ID		
Postal Code	POSTAL_CODE		
Review Info			
Property Name	PROPERTY_NAME		
Cli Id	CLI_ID		
Review Comment	REVIEW_COMMENT		
Rating	RATING		
Review Day	REVIEW_		
Review Month	REVIEW_		
Review Year	REVIEW_YEAR		
Anonymous <input checked="" type="checkbox"/>			

## Radio Buttons

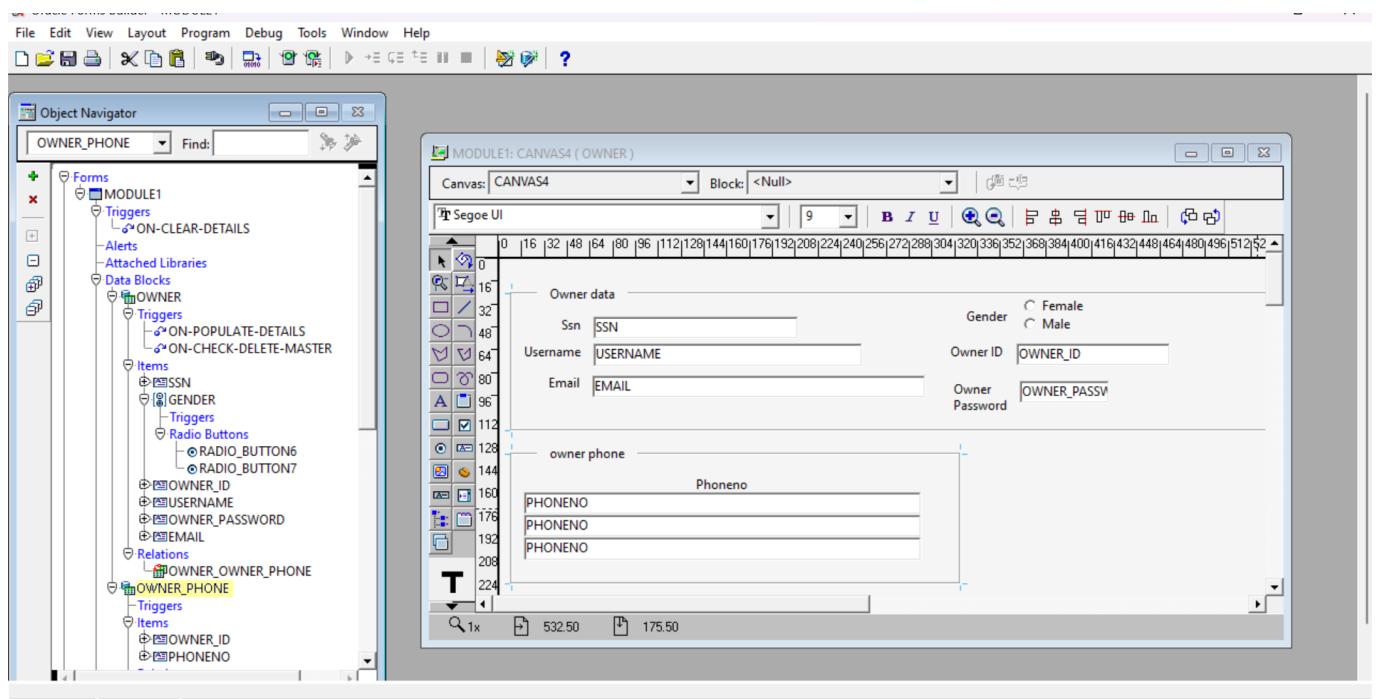
(Owner's Gender)



Radio Button: RADIO_BUTTON6	
- General	
Name	RADIO_BUTTON6
Subclass Information	
Comments	
- Functional	
Enabled	Yes
Label	Male
Access Key	
Radio Button Value	male
- Records	
Distance Between Records	48
- Physical	
Visible	Yes
X Position	368
Y Position	39
Width	90
Height	16
- Visual Attributes	
Visual Attribute Group	DEFAULT
Prompt Visual Attribute Group	DEFAULT

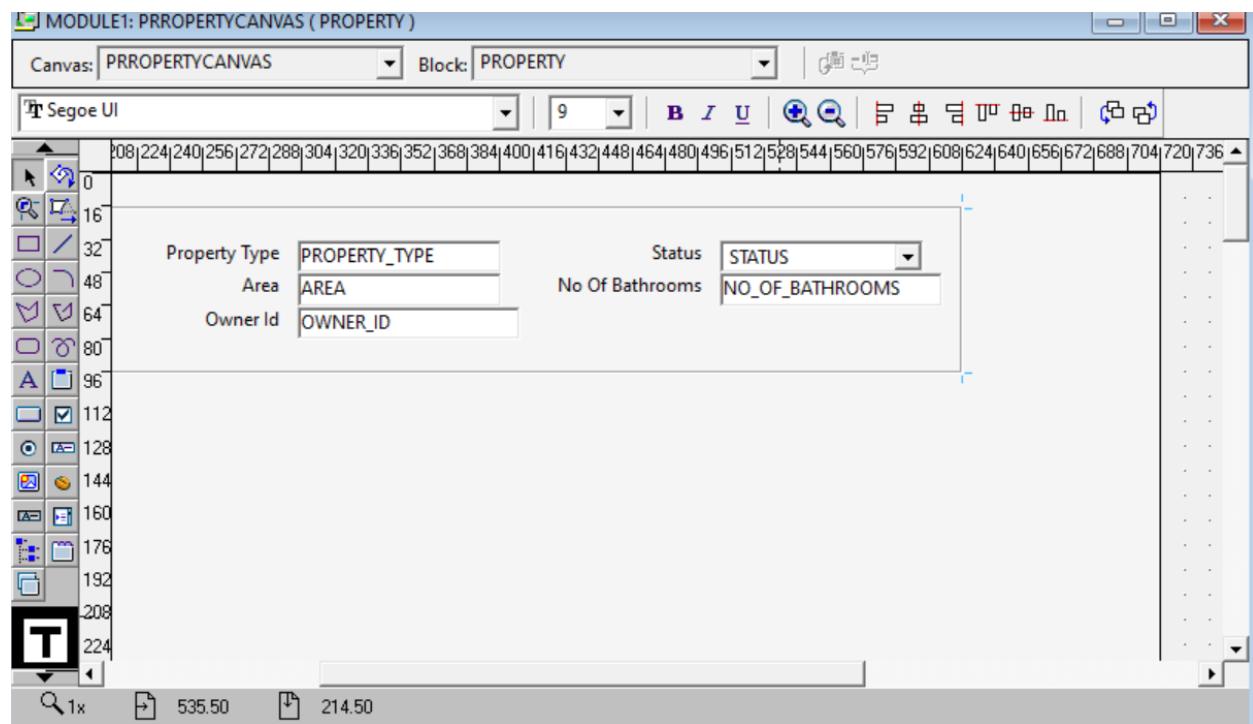
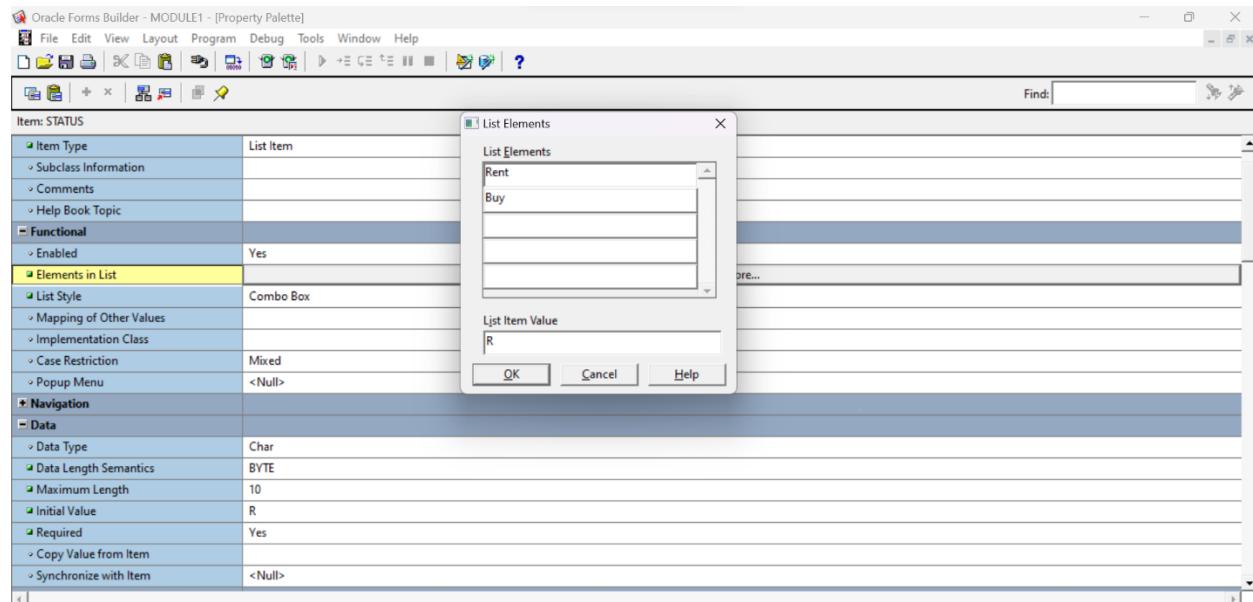
Radio Button: RADIO_BUTTON7	
- General	
Name	RADIO_BUTTON7
Subclass Information	
Comments	
- Functional	
Enabled	Yes
Label	Female
Access Key	
Radio Button Value	female
- Records	
Distance Between Records	48
- Physical	
Visible	Yes
X Position	368
Y Position	26
Width	90
Height	16
- Visual Attributes	
Visual Attribute Group	DEFAULT
Prompt Visual Attribute Group	DEFAULT

Item: GENDER	
- General	
Name	GENDER
Item Type	Radio Group
Subclass Information	
Comments	
Help Book Topic	
- Functional	
Access Key	
Mapping of Other Values	
Implementation Class	
Popup Menu	<Null>
+ Navigation	
- Data	
Data Type	Char
Data Length Semantics	BYTE
Maximum Length	6
Initial Value	female
Copy Value from Item	
Synchronize with Item	<Null>



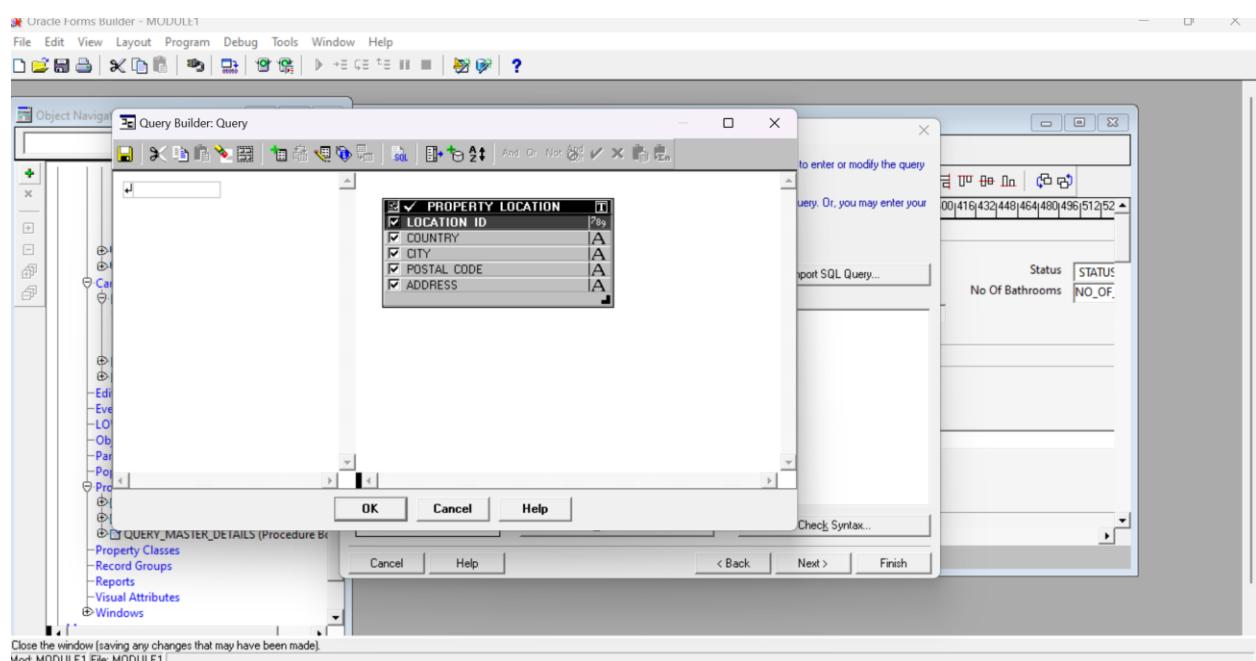
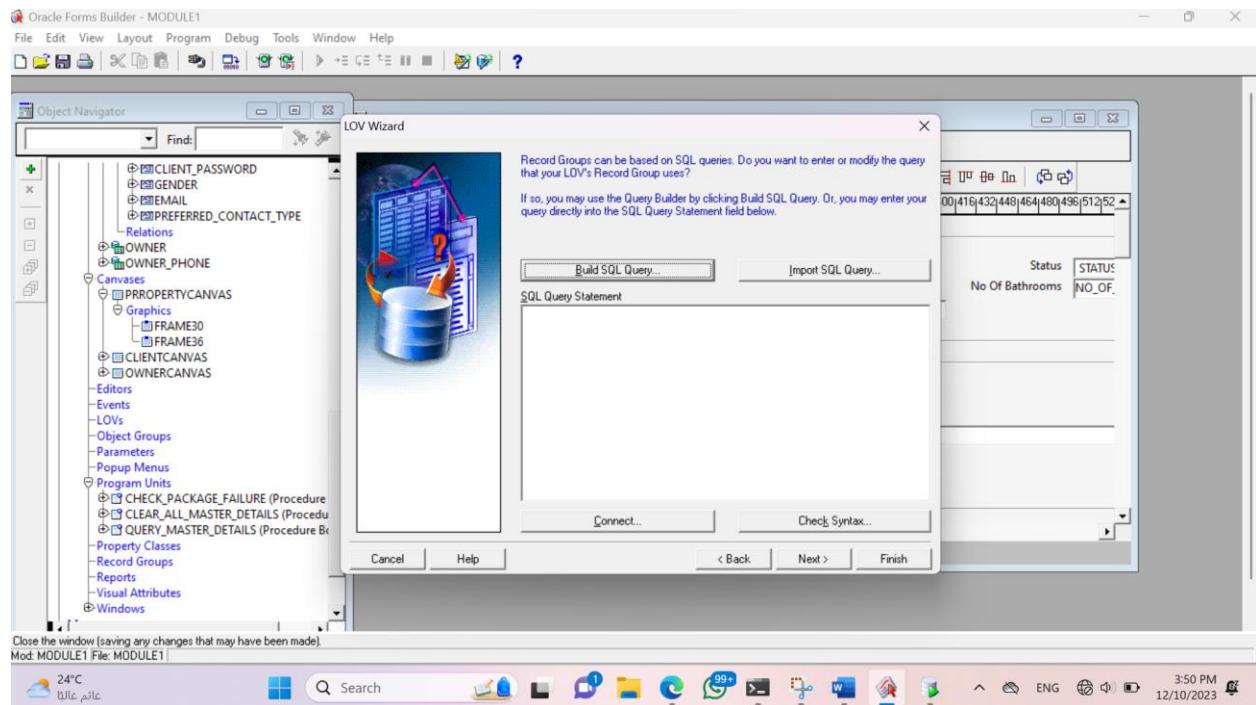
# Combo Box

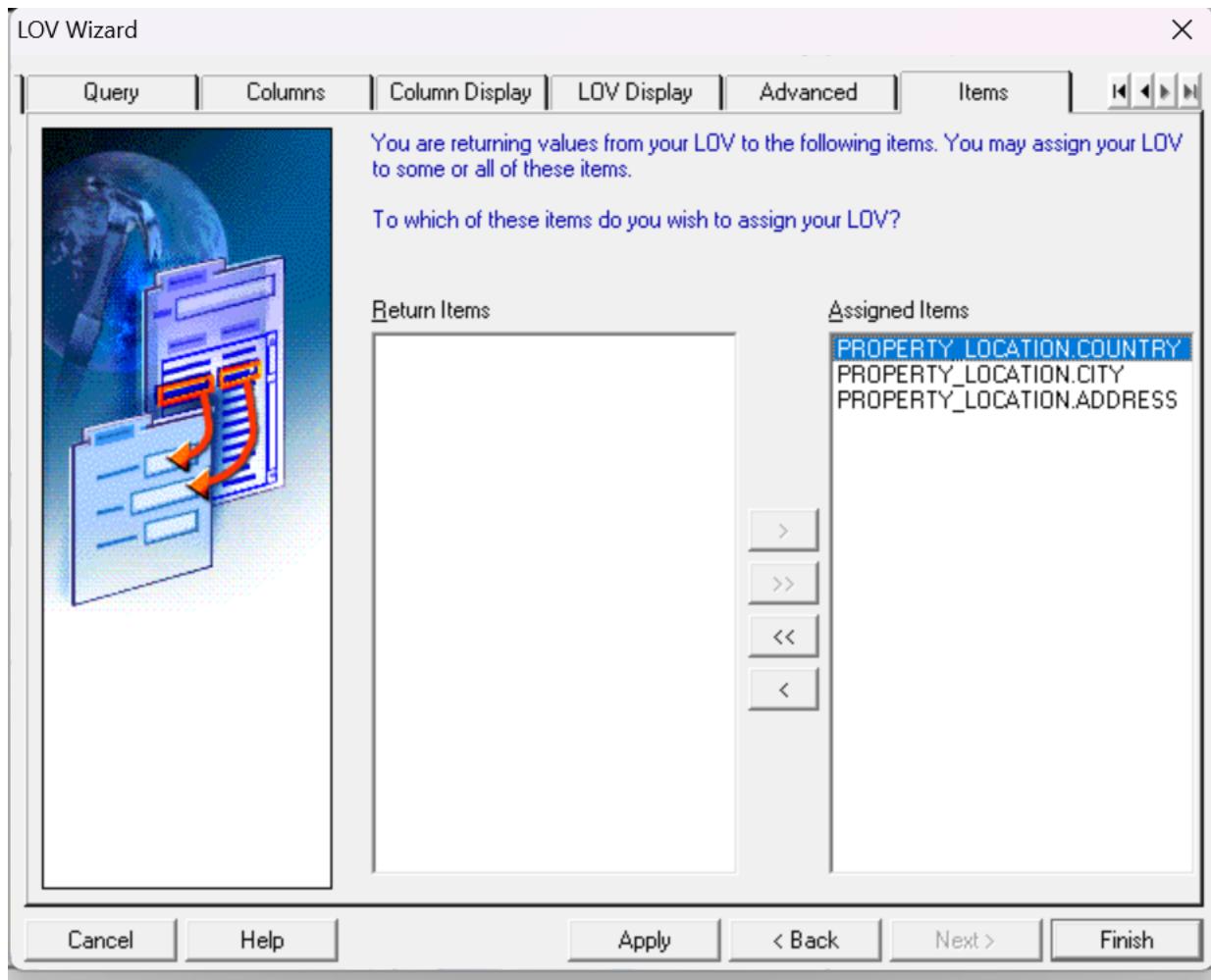
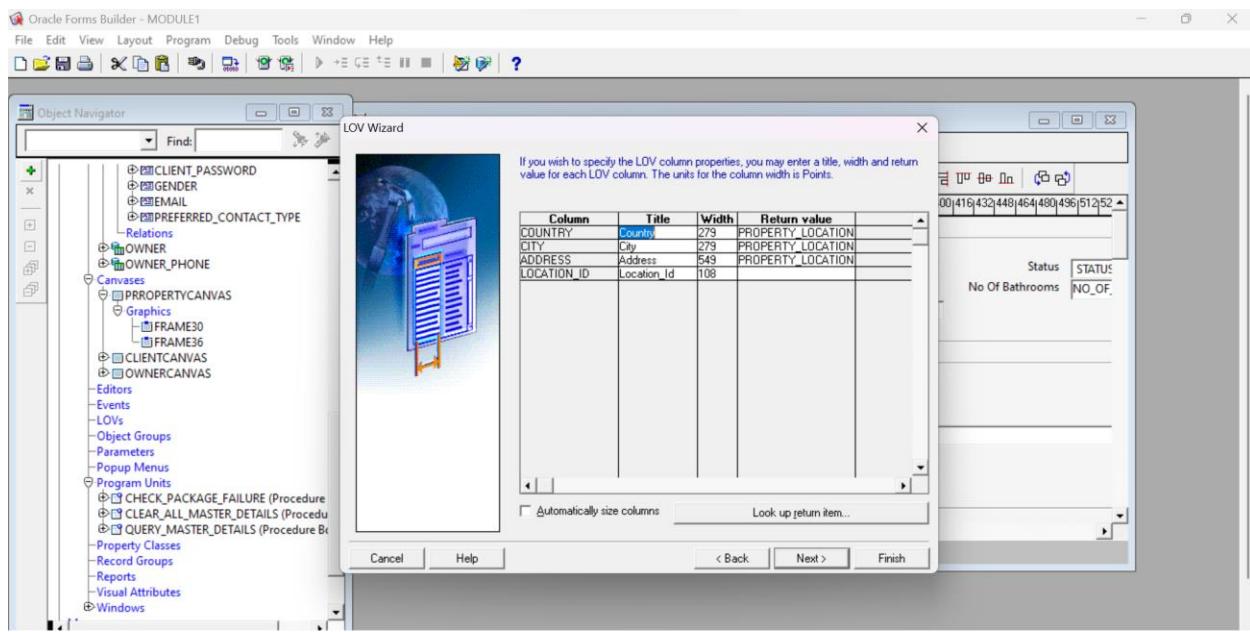
(Status)

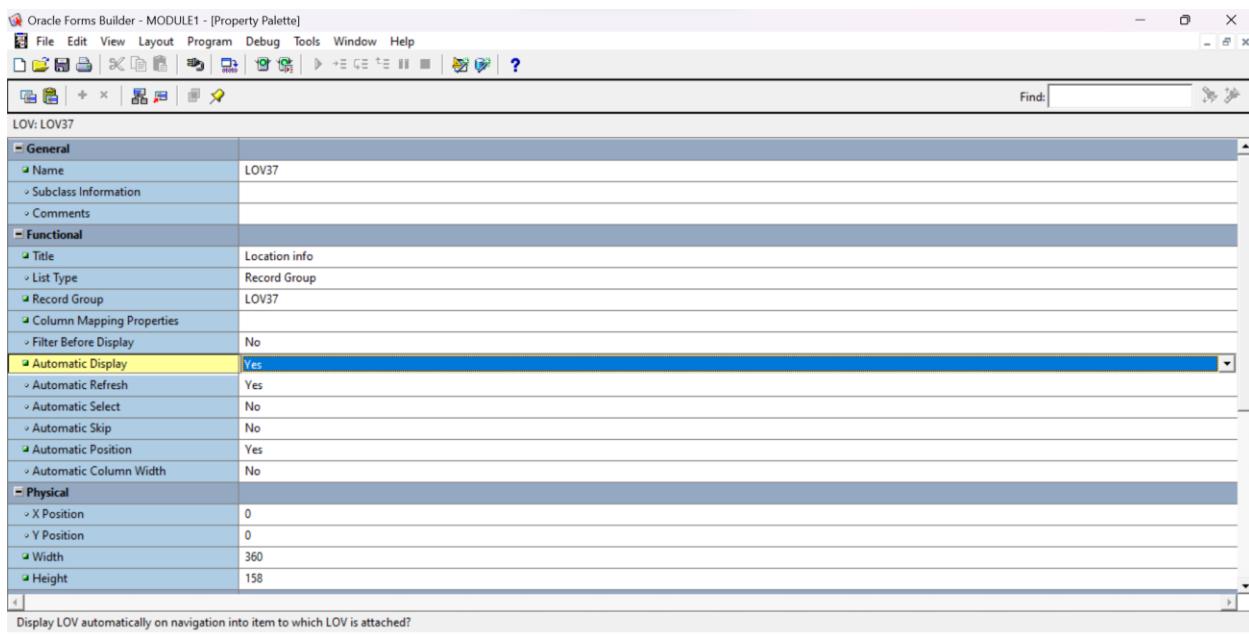
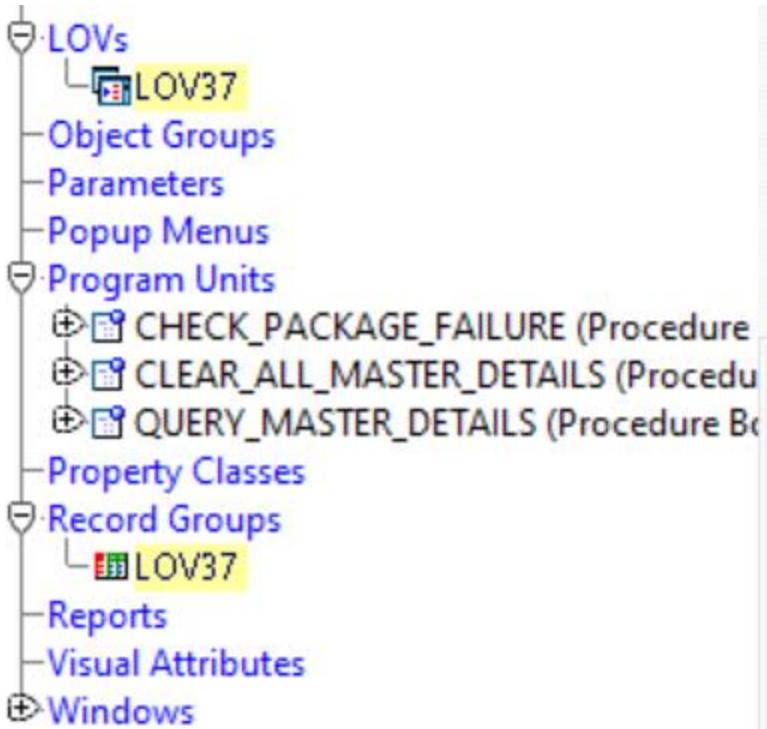


## List of Values (LOV)

(Location)

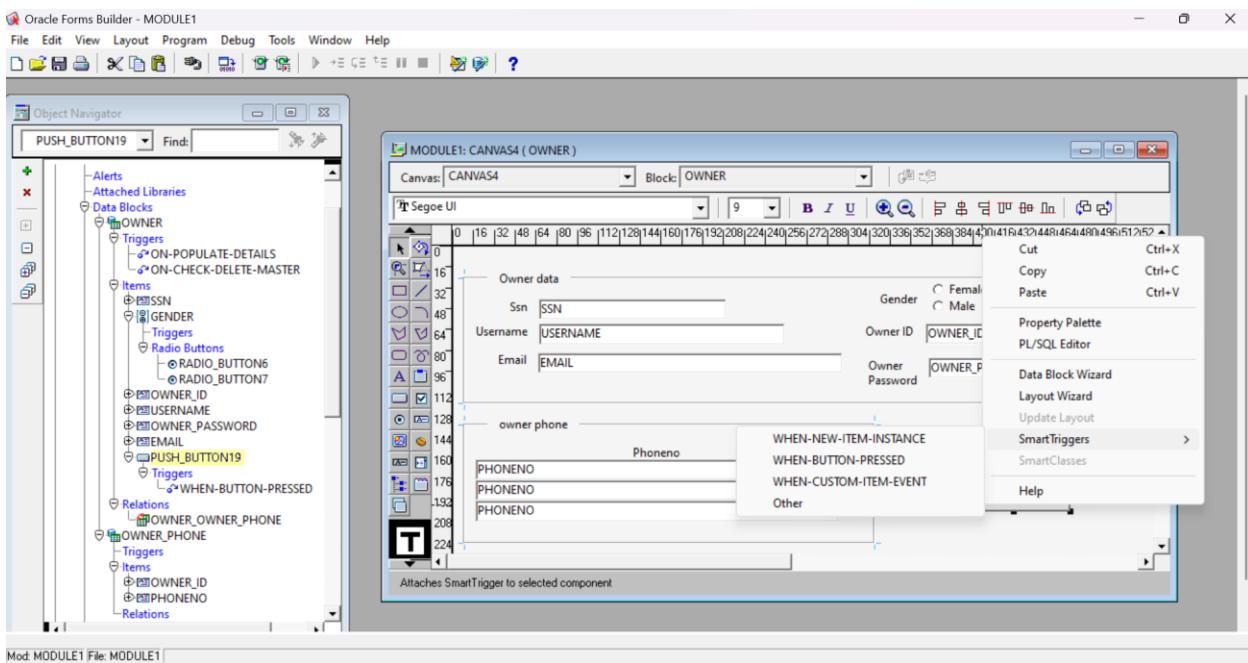
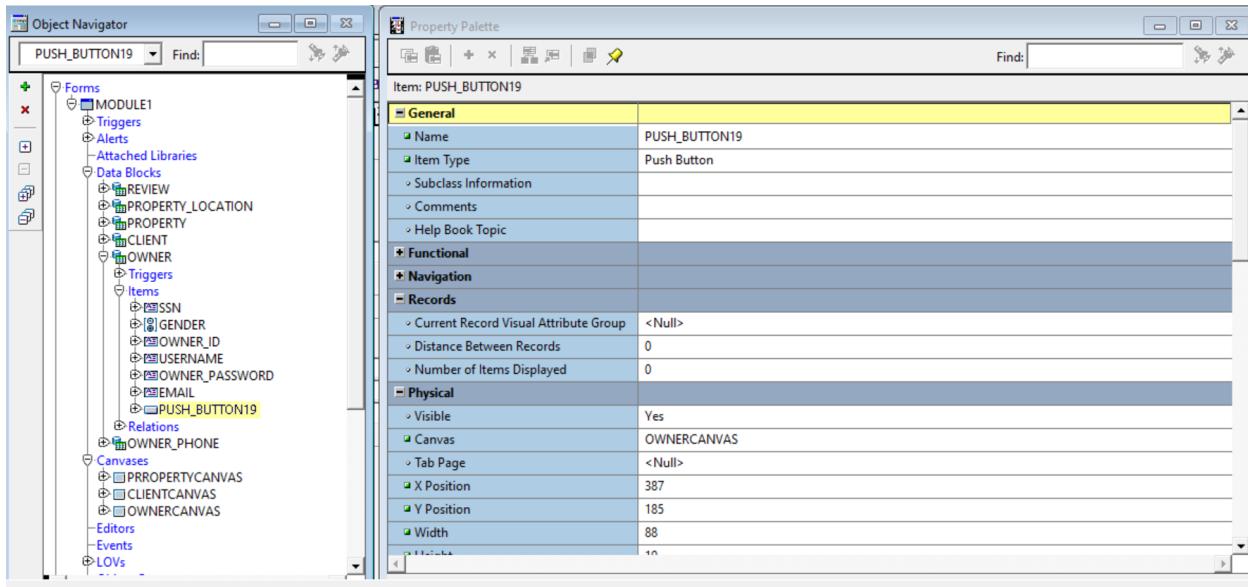






# Triggers

(Push Button for showing the next owner record)



PL/SQL Editor

Name: WHEN-BUTTON-PRESSED

Type: Trigger Object: OWNER PUSH\_BUTTON19

```
1 Next_record ;
```

Not Modified Successfully Compiled

Owner data

Ssn	SSN	Gender	<input type="radio"/> Female
Username	USERNAME		<input type="radio"/> Male
Email	EMAIL	Owner ID	OWNER_ID
		Owner Password	OWNER_PASSW

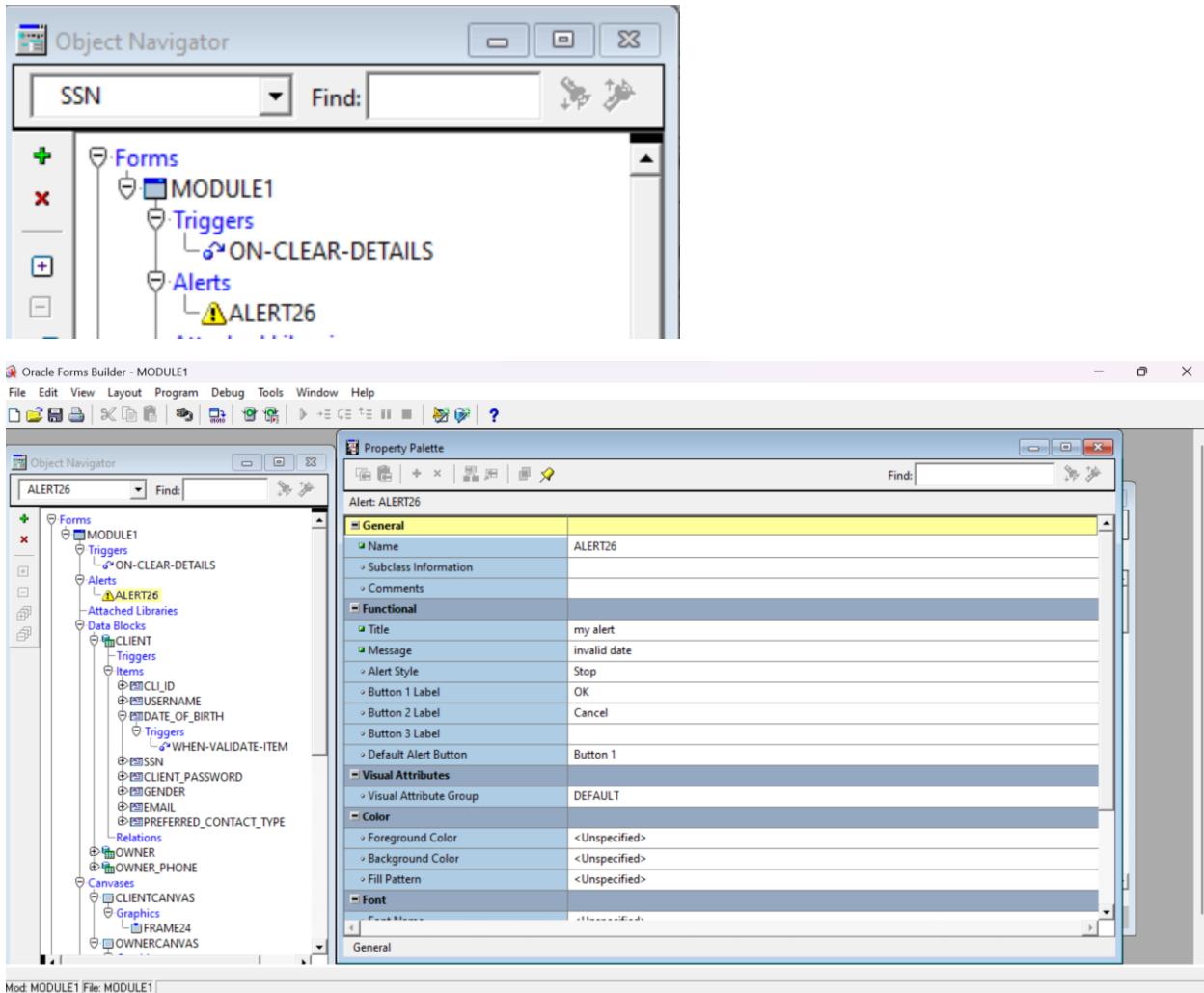
owner phone

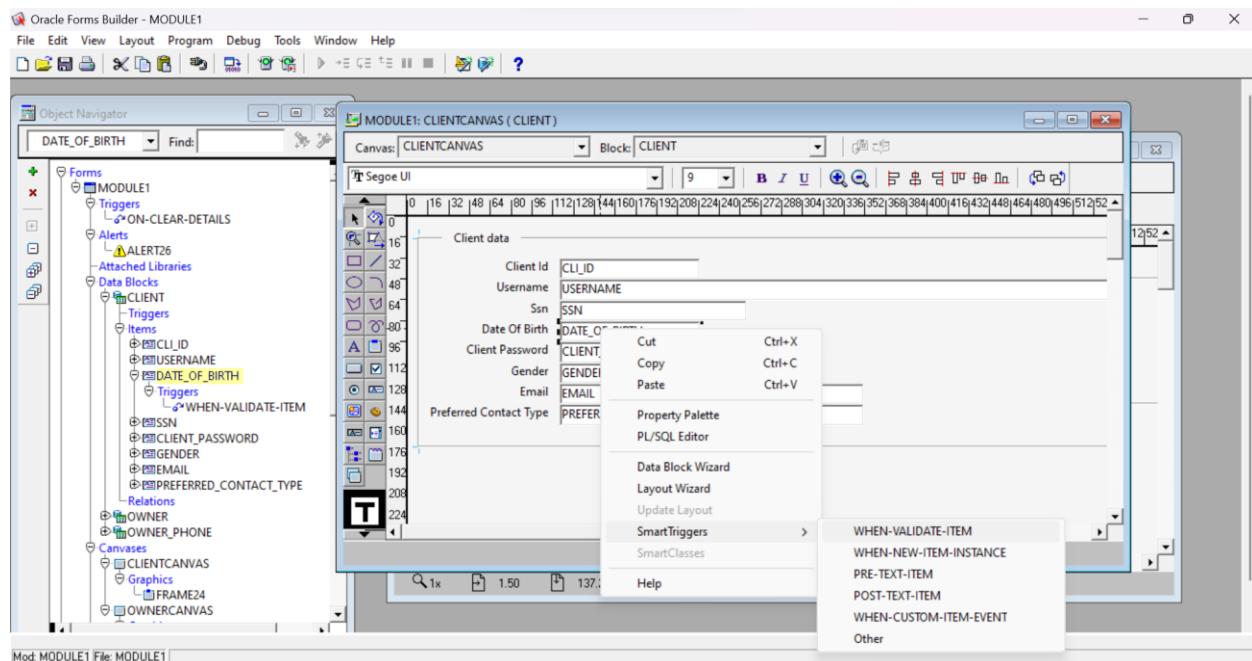
Phoneno
PHONENO
PHONENO
PHONENO

show next

## Alert

1<sup>st</sup> Alert: (Validating the clients' birthdates)



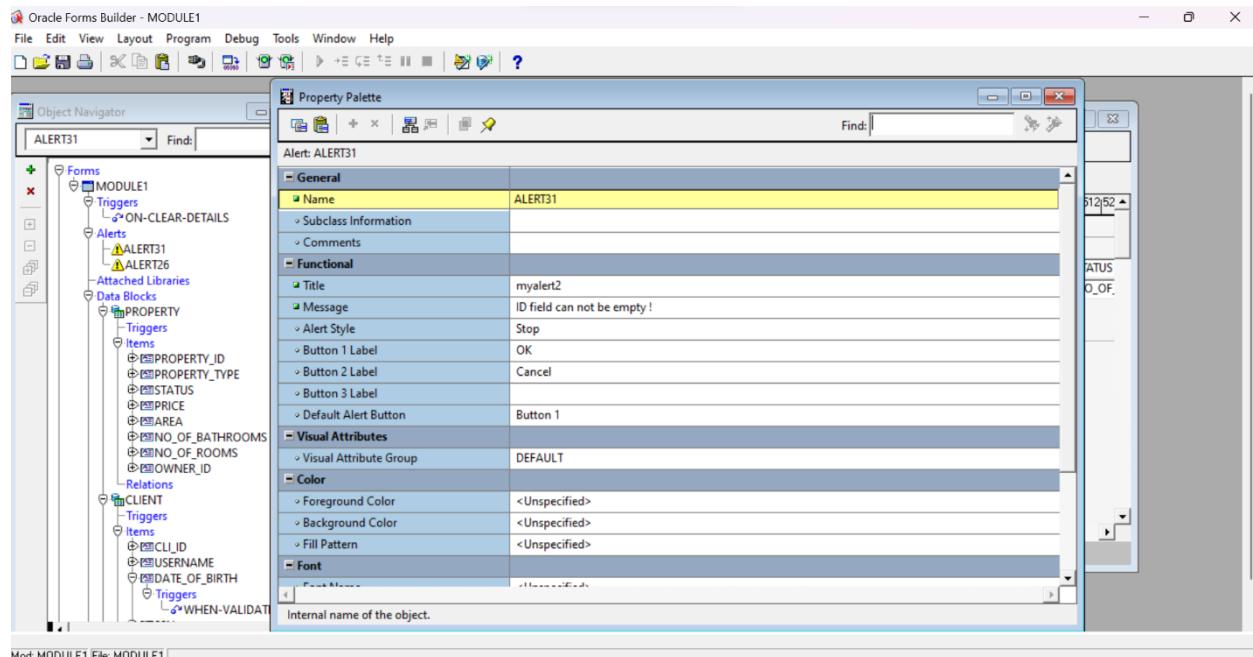


The screenshot shows the PL/SQL Editor window. The title bar says 'PL/SQL Editor'. The top navigation bar includes icons for New, Open, Save, Undo, Redo, and Run. The search bar says 'Name: WHEN-VALIDATE-ITEM'. The dropdown menus show 'Type: Trigger', 'Object: CLIENT', and 'Item: DATE\_OF\_BIRTH'. The main code area contains the following PL/SQL code:

```
1 Declare
2   b number;
3 Begin
4   If :CLIENT.DATE_OF_BIRTH <'01-Jan-1900' then
5     b:= show_alert('ALERT26');
6     If b=88 then
7       Message ('You pressed the first button');
8       Raise form_trigger_failure;
9     Elsif b=89 then
10      Message ('You pressed the second button');
11    End if;
12  End if;
13 End;
```

The status bar at the bottom indicates 'Modified' and 'Not Compiled'.

## 2<sup>nd</sup> Alert: assuring that the ID field is not null



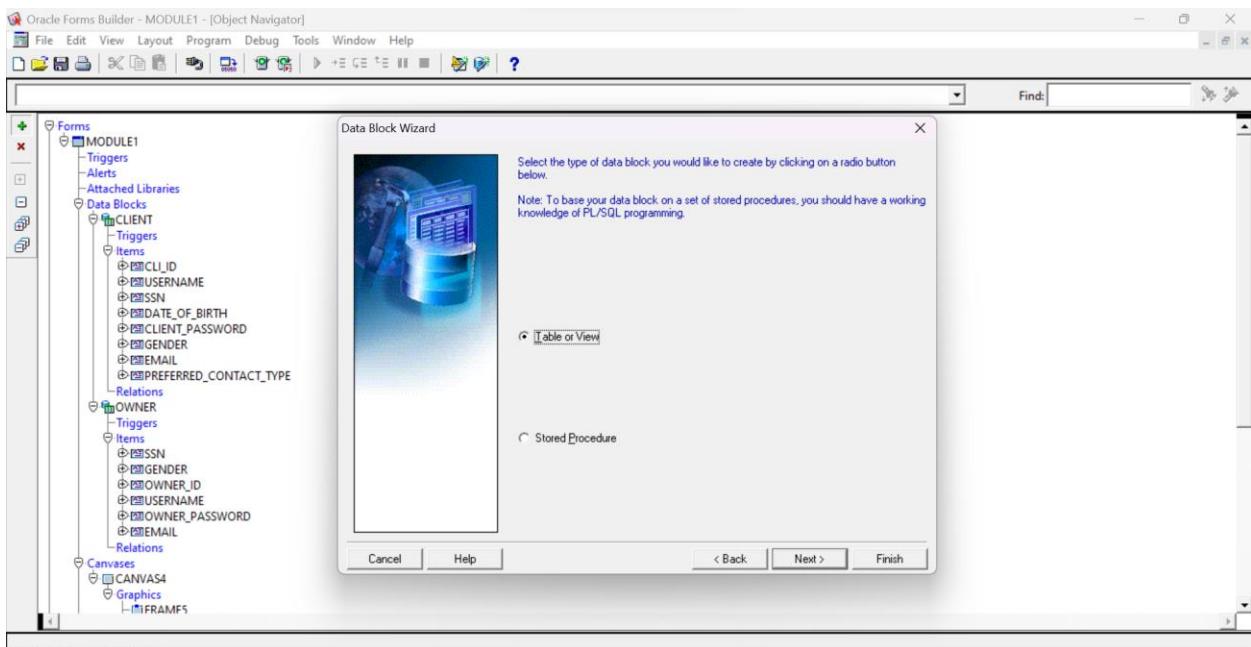
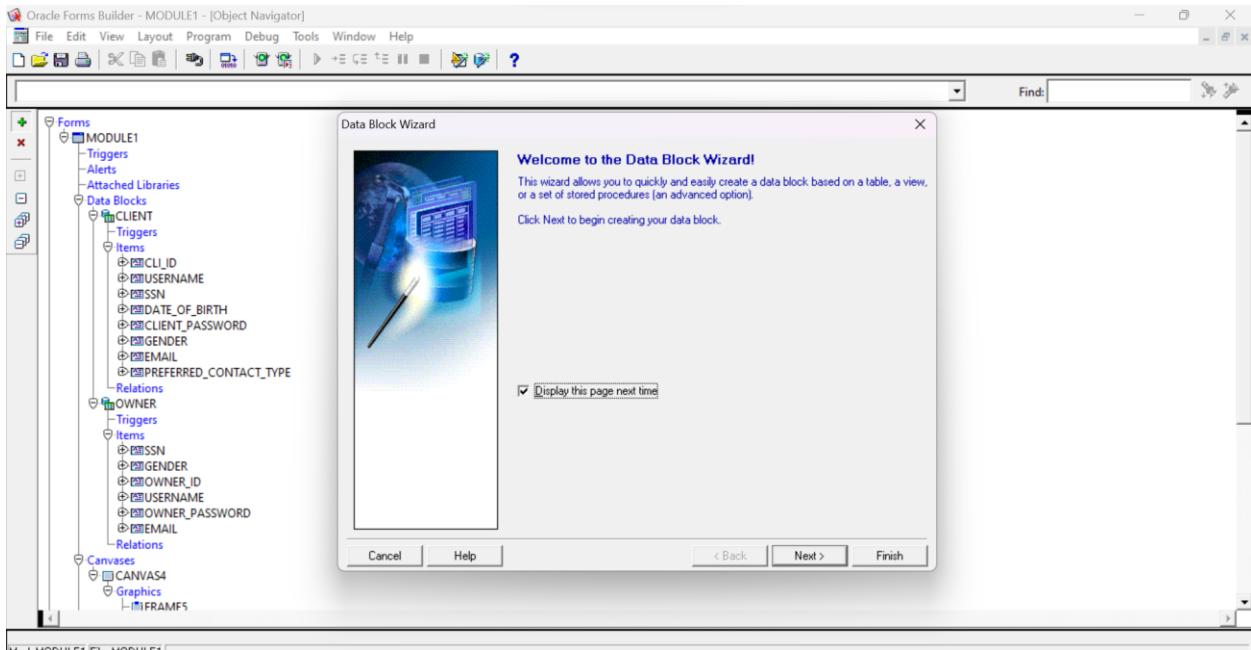
The screenshot shows the PL/SQL Editor window titled "PL/SQL Editor". The top bar has buttons for Undo, Redo, Save, and Close, and a "Name:" field set to "WHEN-VALIDATE-ITEM". Below that, a "Type:" dropdown is set to "Trigger", and an "Object:" dropdown is set to "PROPERTY" with "PROPERTY\_ID" selected. The main area contains the following PL/SQL code:

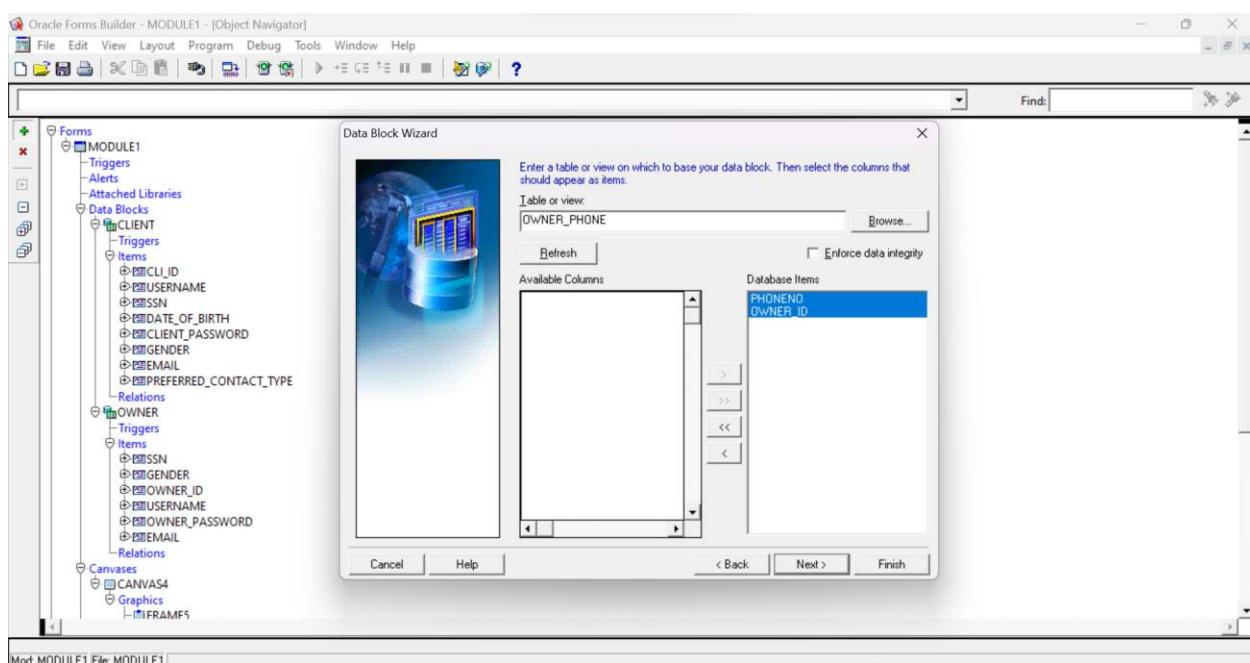
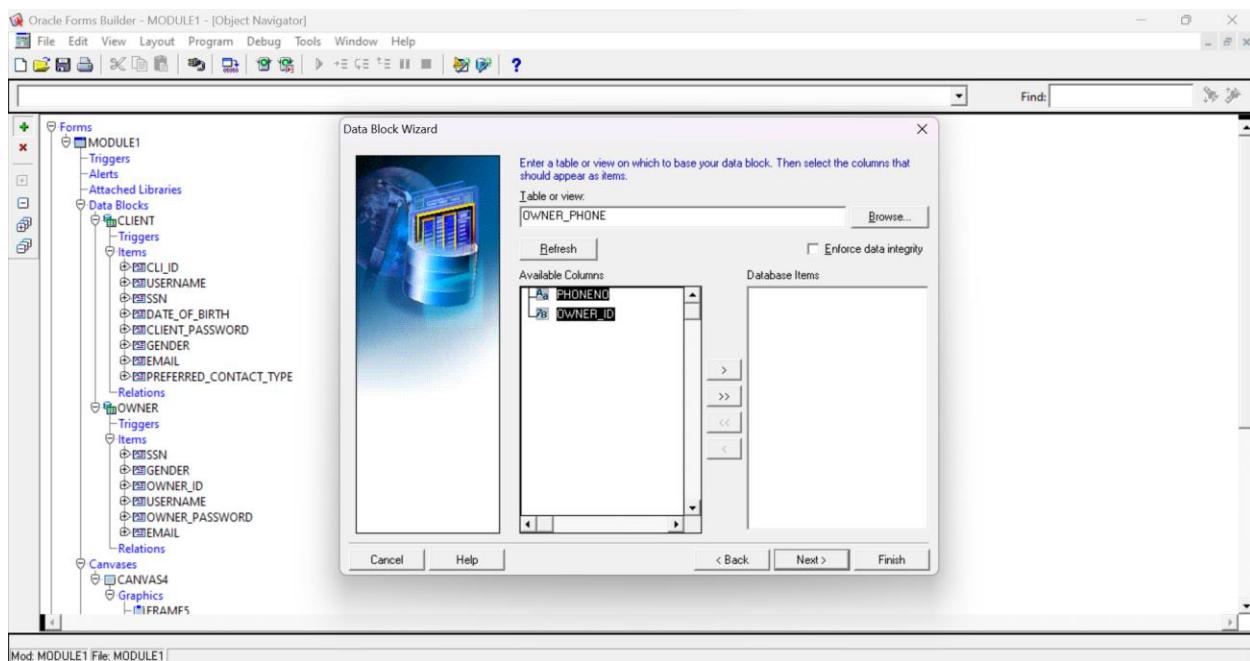
```
1 Declare
2   b number;
3 Begin
4   If :PROPERTY.getProperty_ID =null then
5     b:= show_alert('ALERT31');
6     If b=88 then
7       Message ('You pressed the first button');
8       Raise form_trigger_failure;
9     Elsif b=89 then
10      Message ('You presses the second button');
11    End if;
12  End if;
13 End;
```

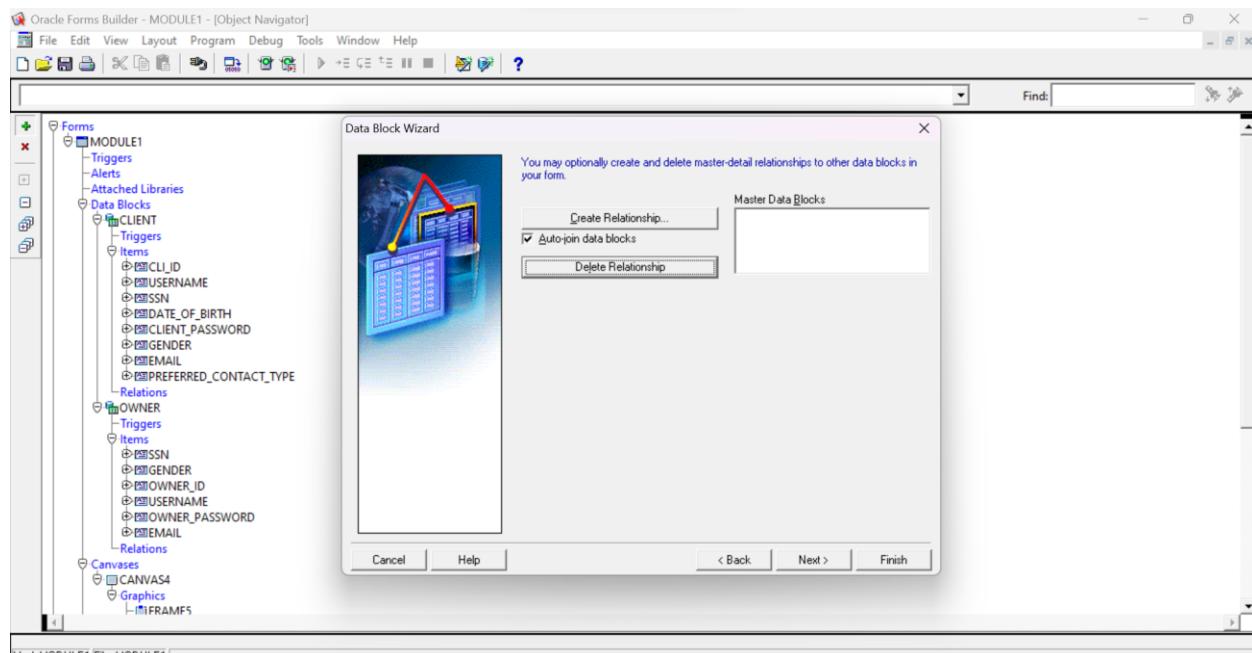
The status bar at the bottom shows "Not Modified" on the left and "Successfully Compiled" on the right.

# Master Detail

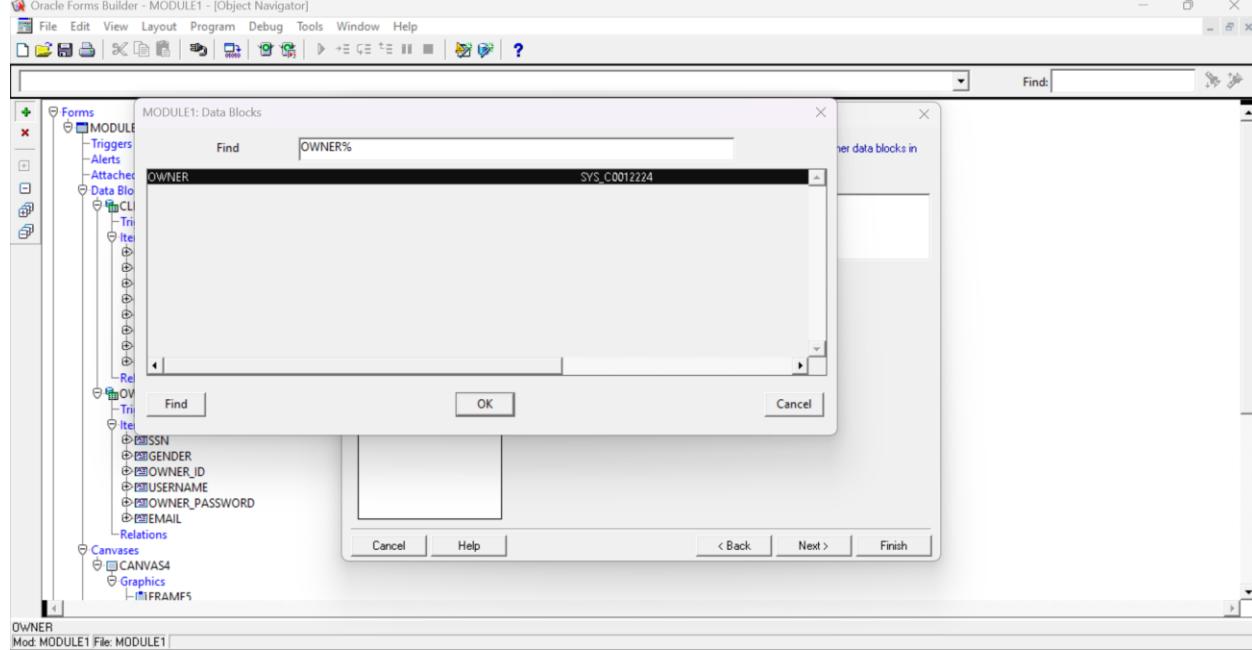
(Owner\_Phone)

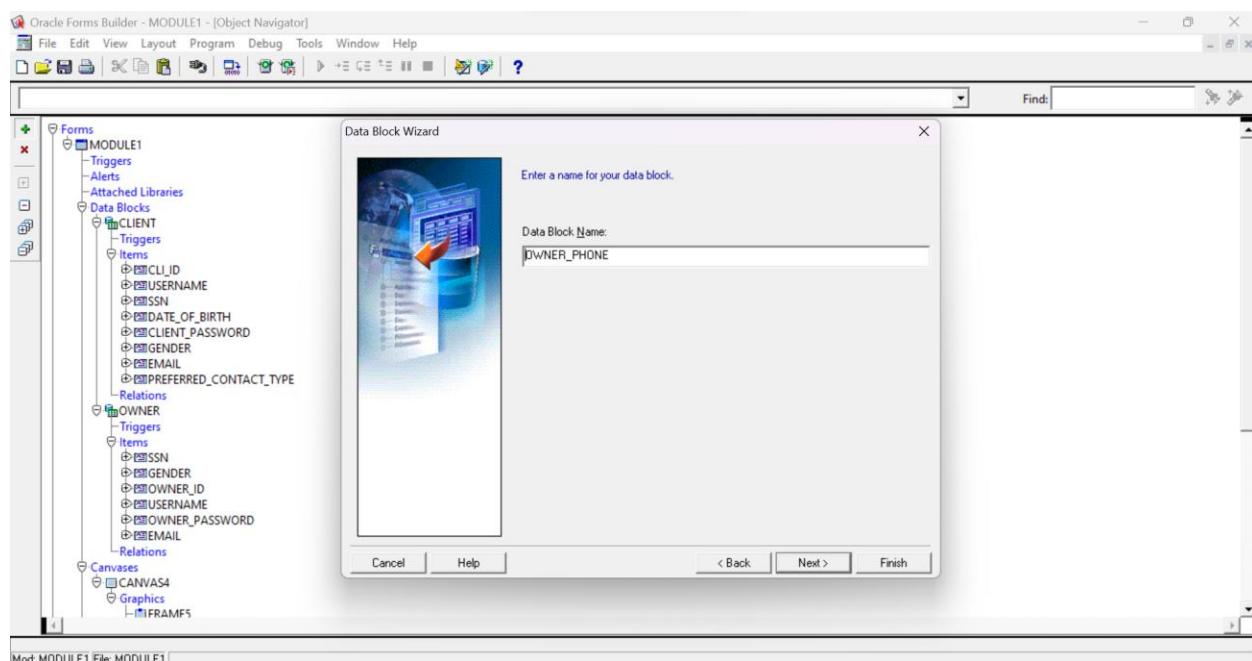
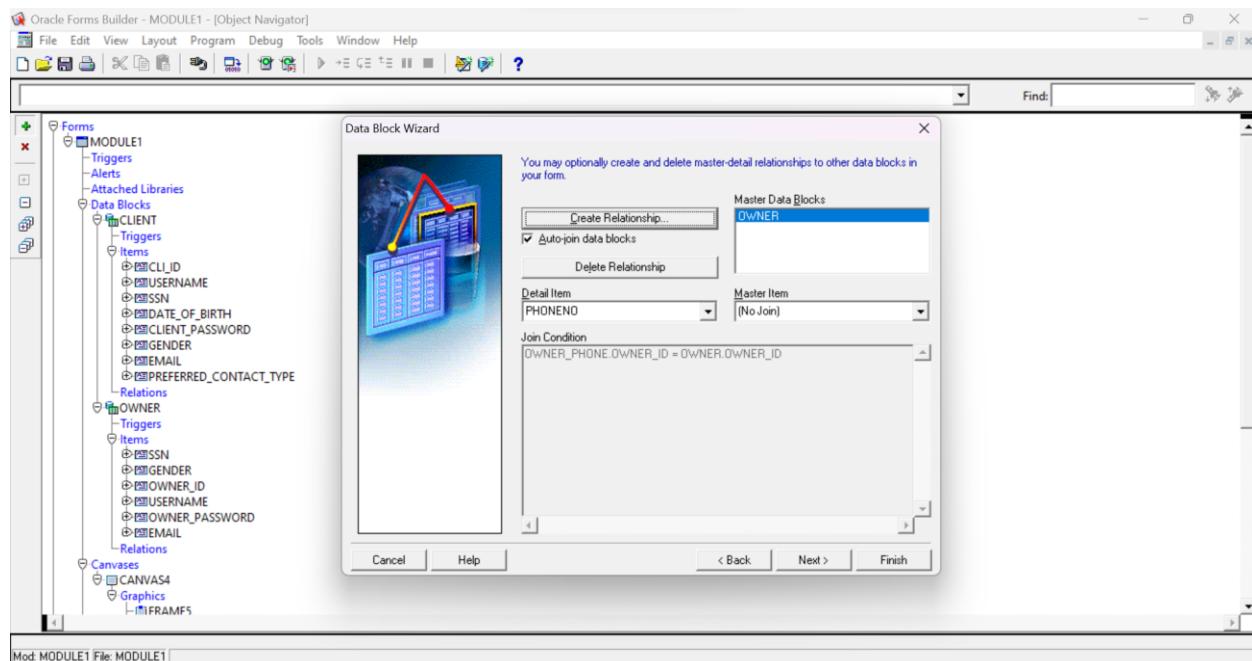


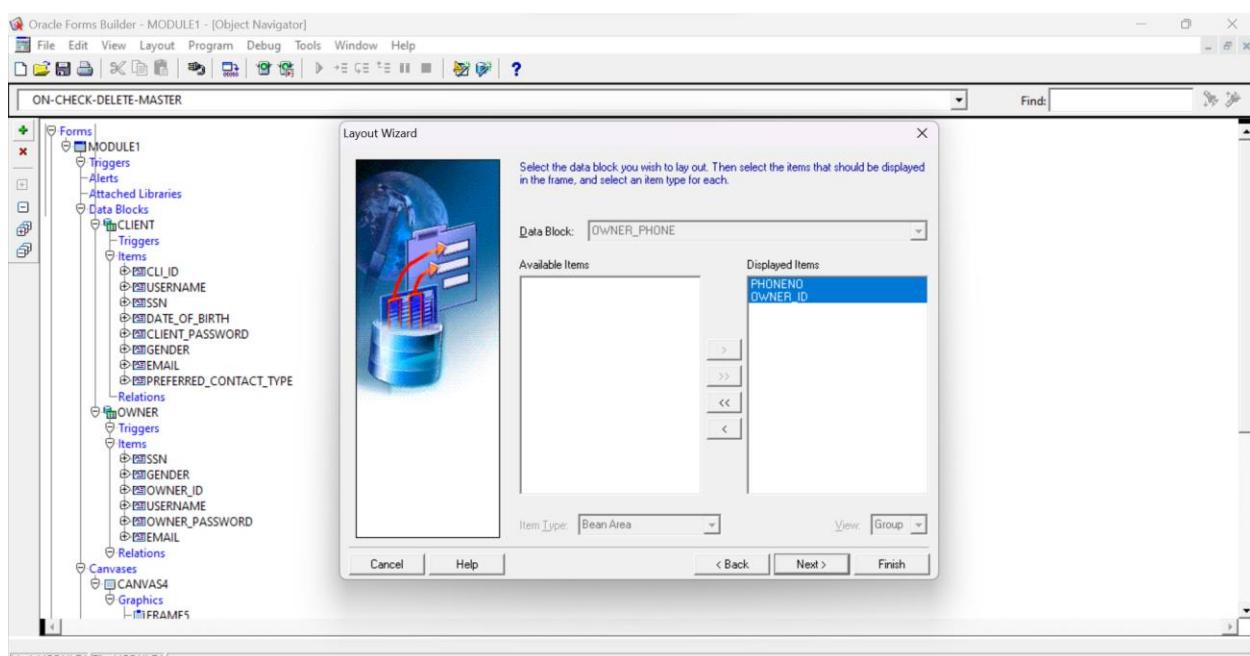
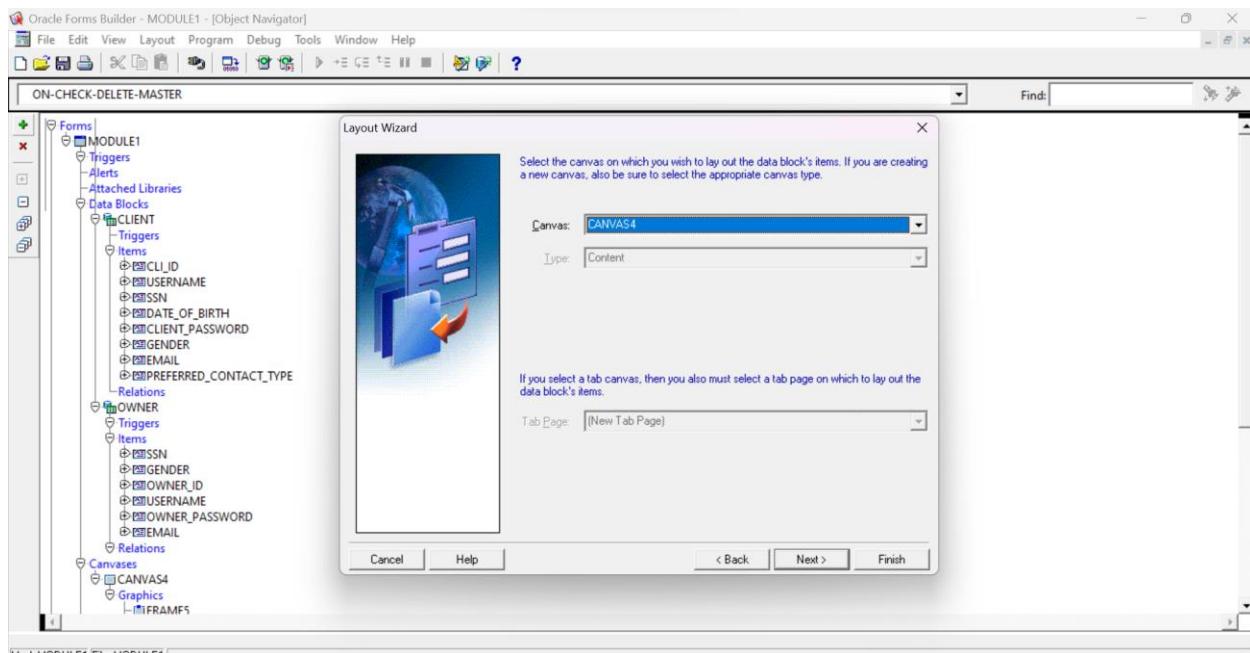


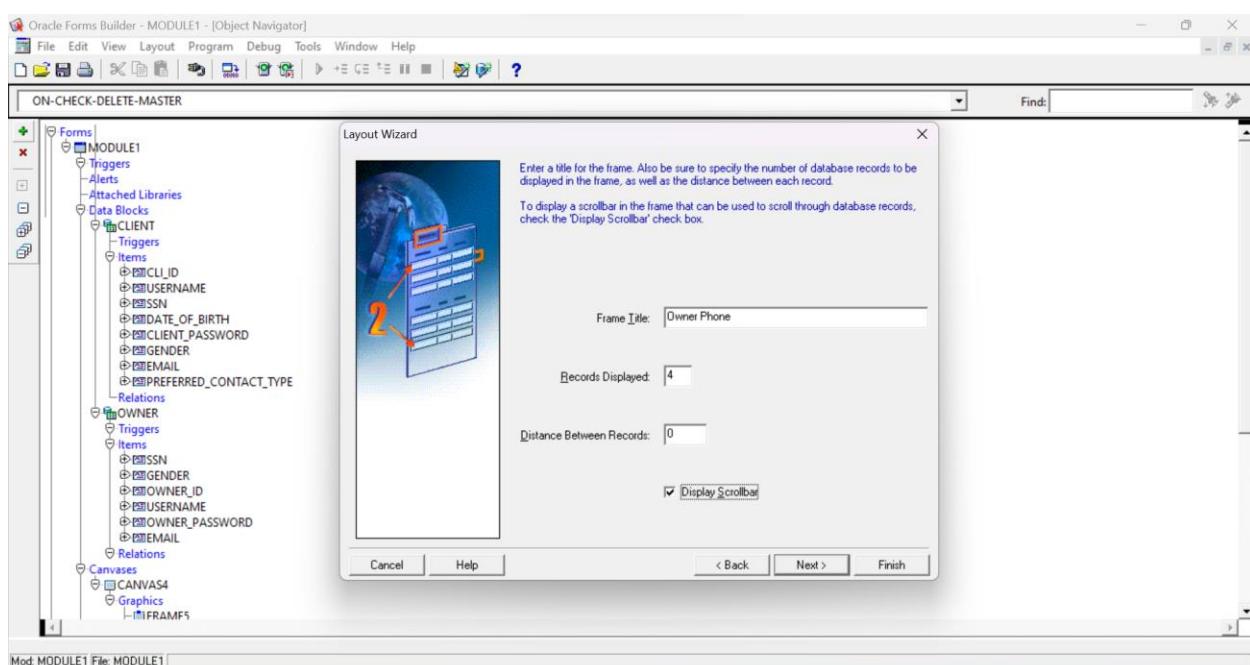
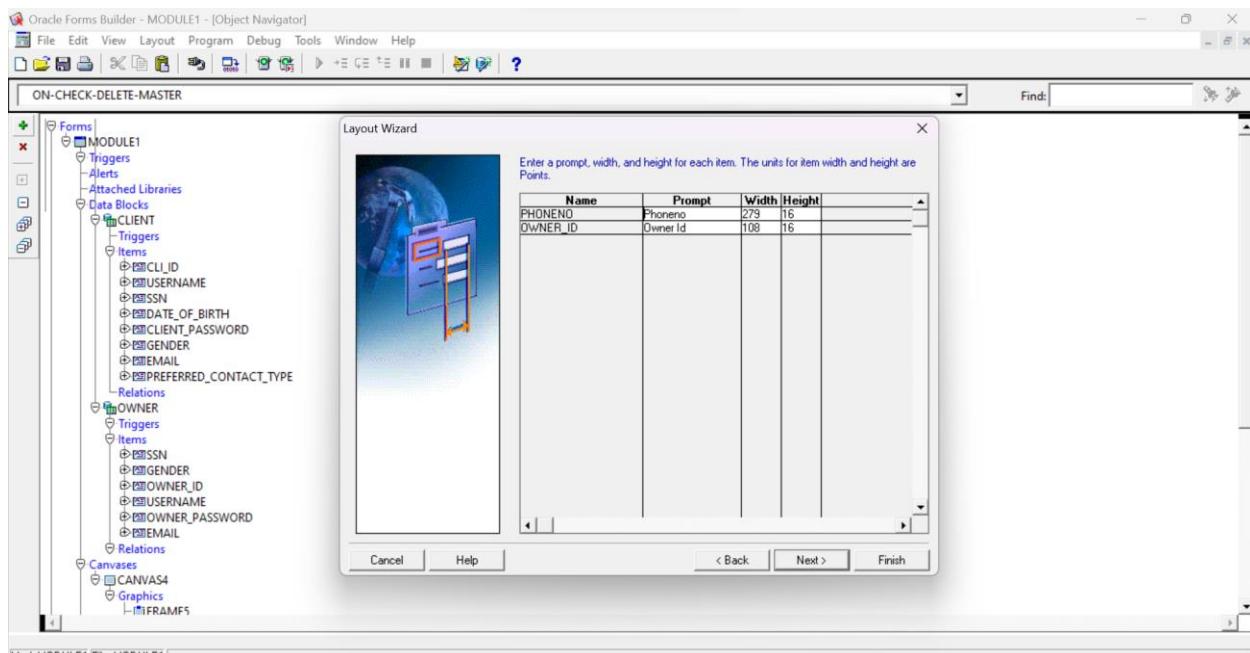


Mod: MODULE1 File: MODULE1

OWNER  
Mod: MODULE1 File: MODULE1







Oracle Forms Builder - MODULE1 - [Object Navigator]

File Edit View Layout Program Debug Tools Window Help

Attached Libraries

ON-CHECK-DELETE-MASTER

Find:

**Layout Wizard**

**Congratulations!**  
You have finished describing your layout frame.  
To create the new frame and lay out the selected items, simply click Finish.

The Layout Wizard will display the new frame in the Layout Editor. To modify the layout in the future, you can recall the Layout Wizard. Simply select the frame in the Layout Editor and choose "Layout Wizard" from the "Tools" menu.

Hint: To 'fine-tune' the layout, use the Property Palette to modify the frame's layout properties. Select the frame in the Layout Editor and choose "Property Palette" from the "Tools" menu.

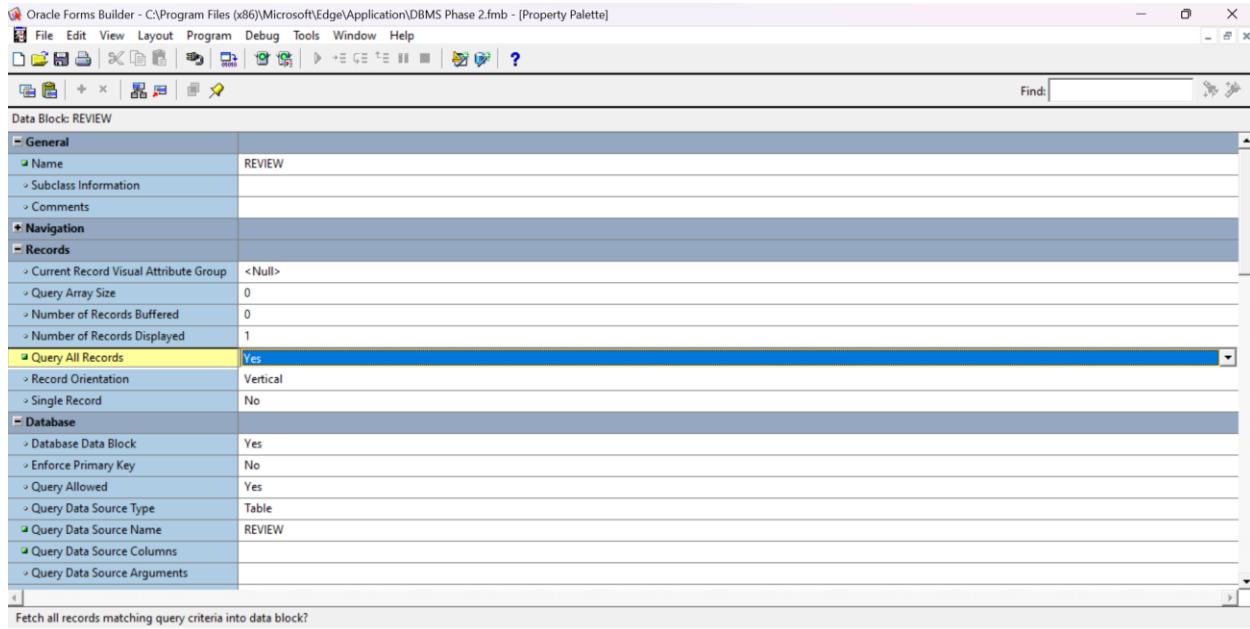
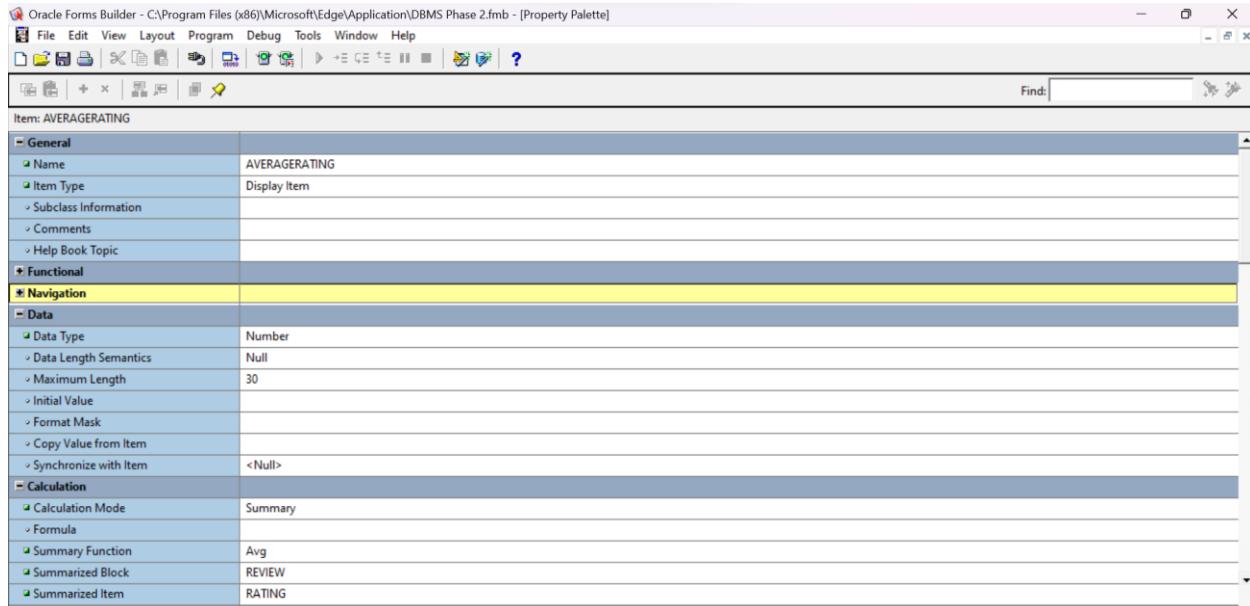
Cancel | Help | < Back | Next > | Finish | Show desktop

Mod: MODULE1 File: MODULE1

The screenshot shows the Oracle Forms Builder interface. The left pane displays the Object Navigator with a tree structure of forms, triggers, alerts, attached libraries, data blocks, relations, canvases, and graphics. The 'CLIENT' data block is expanded, showing items like CL\_ID, USERNAME, SSN, DATE\_OF\_BIRTH, CLIENT\_PASSWORD, GENDER, EMAIL, and PREFERRED\_CONTACT\_TYPE. The 'OWNER' data block is also expanded, showing items like SSN, GENDER, OWNER\_ID, USERNAME, OWNER\_PASSWORD, EMAIL, and PUSH\_BUTTON19. A blue arrow points from the 'OWNER\_PHONE' relation node in the Object Navigator towards the 'Relations' section of the Layout Wizard window.

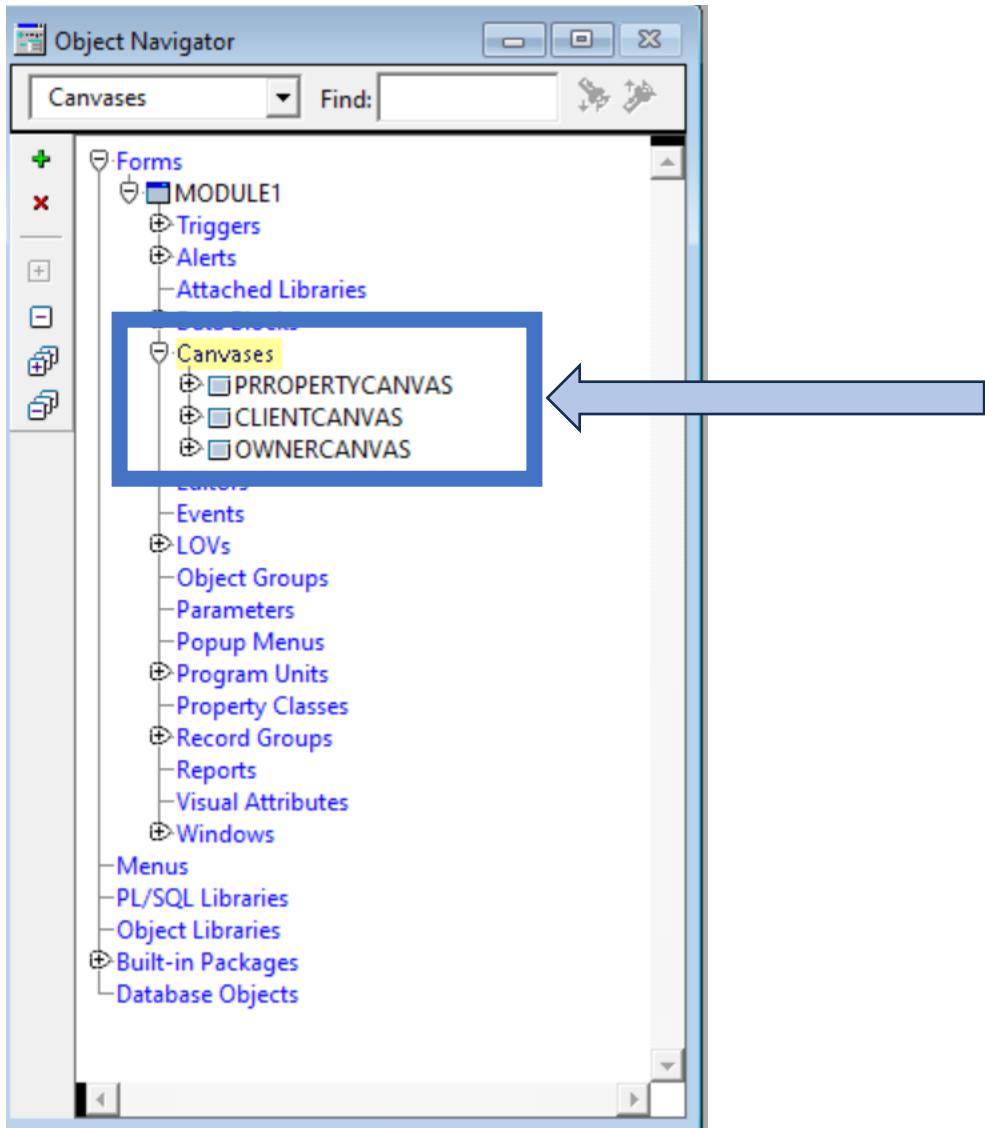
## Calculated Mode: Summary

(Average Rating)



Review Info	
Property Name	PROPERTY_NAME
Cli Id	CLI_ID
Review Comment	REVIEW_COMMENT
Rating	RATING AVERAGERATING
Review Day	REVIEW
Review Month	REVIEW
Review Year	REVIEW_YEAR

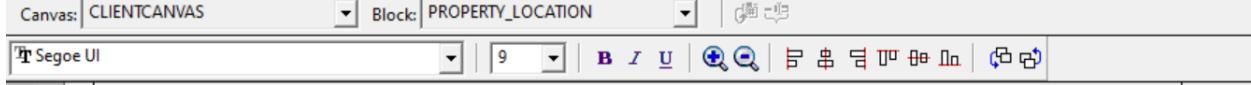
## Canvases



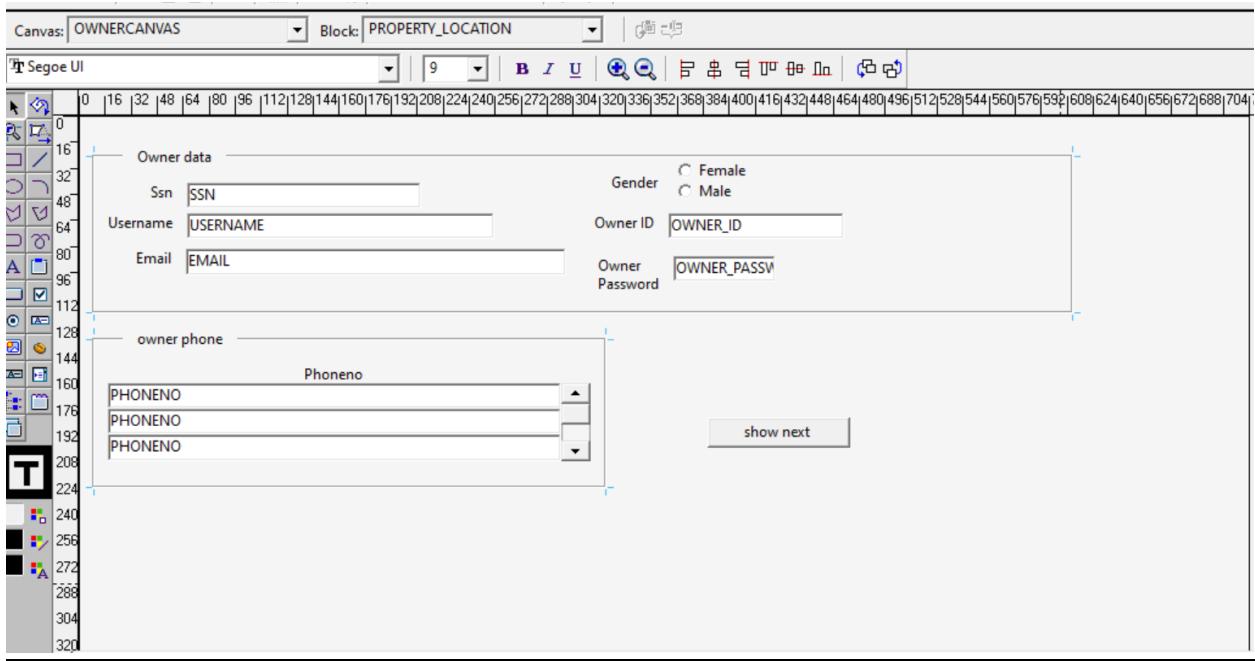
## Property Canvas

Property data			
Property Id	PROPERTY_ID	Property Type	PROPERTY_TYPE
Price	PRICE	Area	AREA
No Of Rooms	NO_OF_ROOMS	Owner Id	OWNER_ID
Status	STATUS	No Of Bathrooms	NO_OF_BATHROOMS
Average Rating	AVGRATING		
location			
City	CITY		
Country	COUNTRY		
Address	ADDRESS		
Location Id	LOCATION_ID		
Postal Code	POSTAL_CODE		
Review Info			
Property Name	PROPERTY_NAME		
Client Id	CLI_ID		
Review Comment	REVIEW_COMMENT		
Rating	RATING		
Review Day	REVIEW_	Anonymous	<input checked="" type="checkbox"/>
Review Month	REVIEW_		
Review Year	REVIEW_YEAR		

## Client Canvas

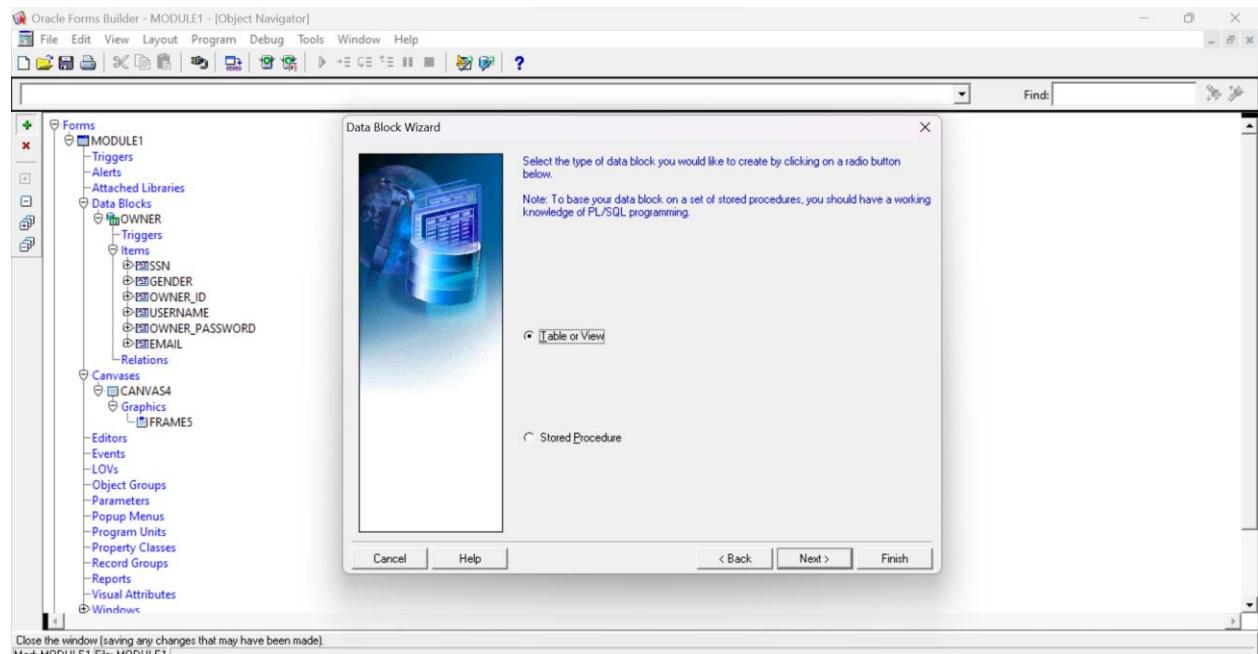
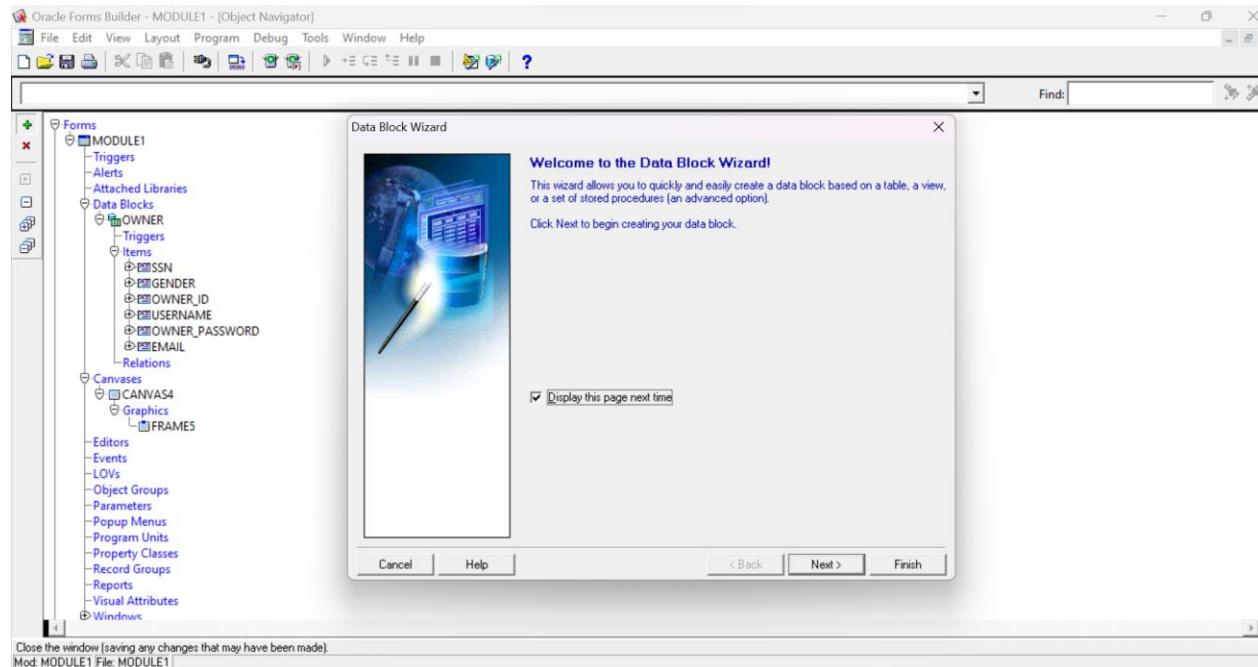
Canvas:	CLIENTCANVAS	Block:	PROPERTY_LOCATION																																			
																																						
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432	448	464	480	496	512	528	544	560	576	592	608
16	Client data																																					
32	Client Id	CLI_ID																																				
48	Username	USERNAME																																				
64	Ssn	SSN																																				
80	Date Of Birth	DATE_OF_BIRTH																																				
96	Client Password	CLIENT_PASS																																				
112	Gender	GENDER																																				
128	Email	EMAIL																																				
144	Preferred Contact Type	PREFERRED_CONTACT_TYPE																																				
160																																						
176																																						
192																																						

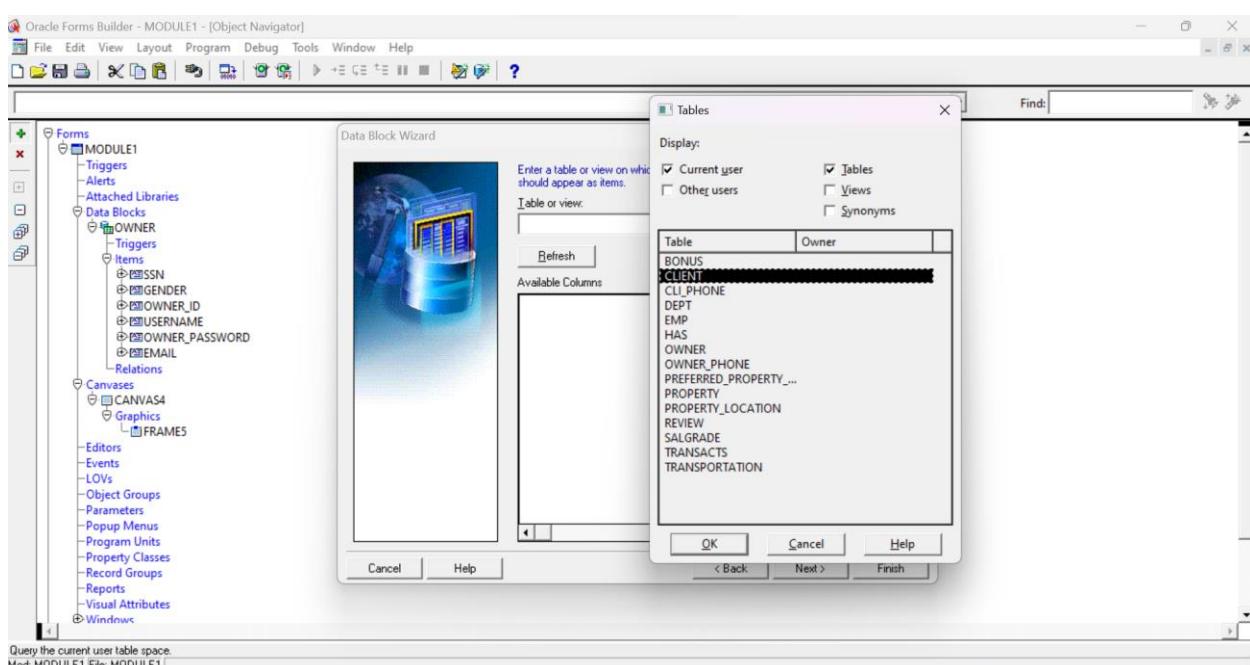
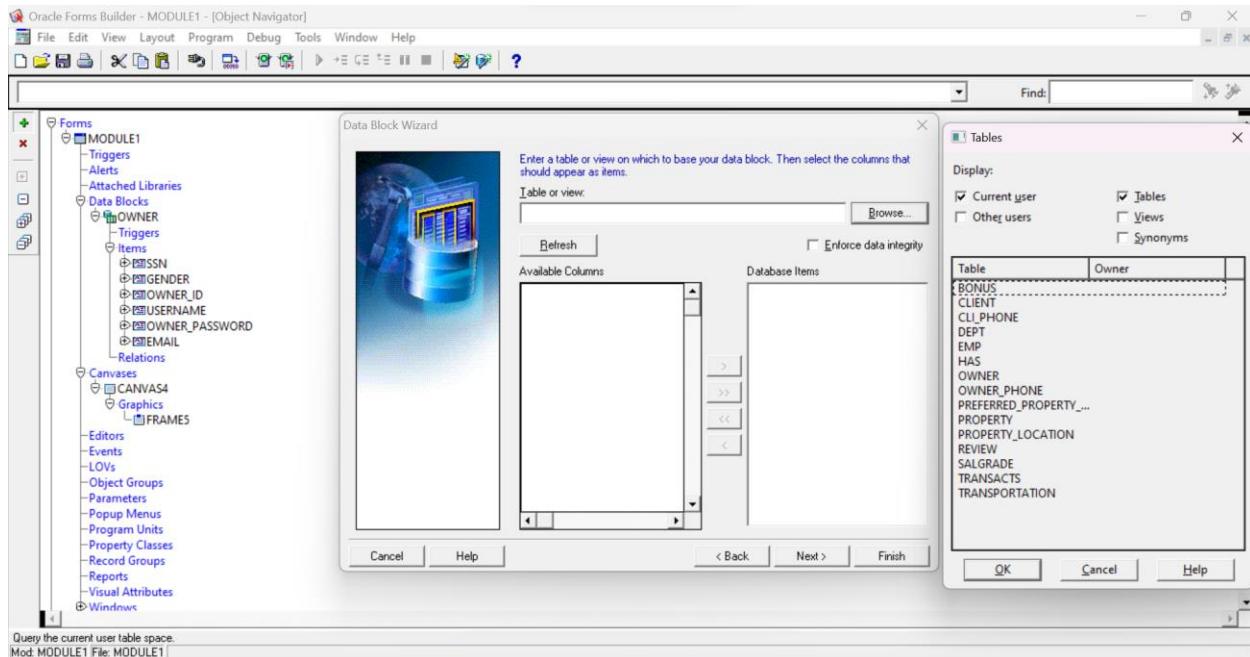
## Owner Canvas

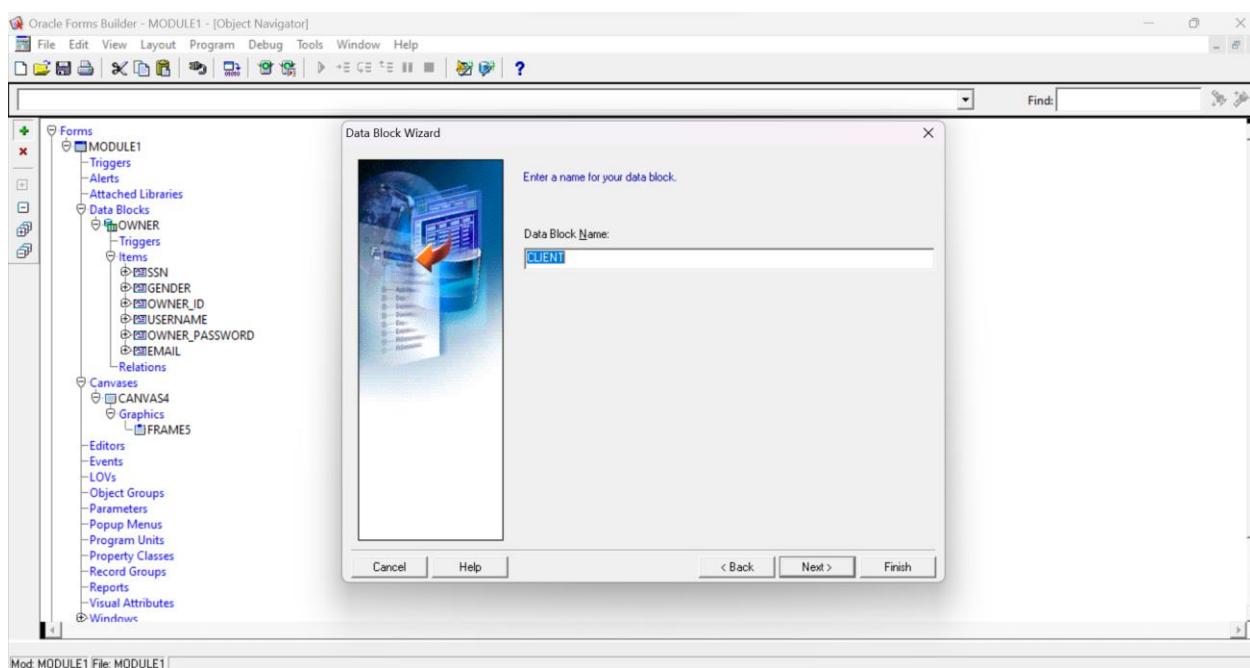
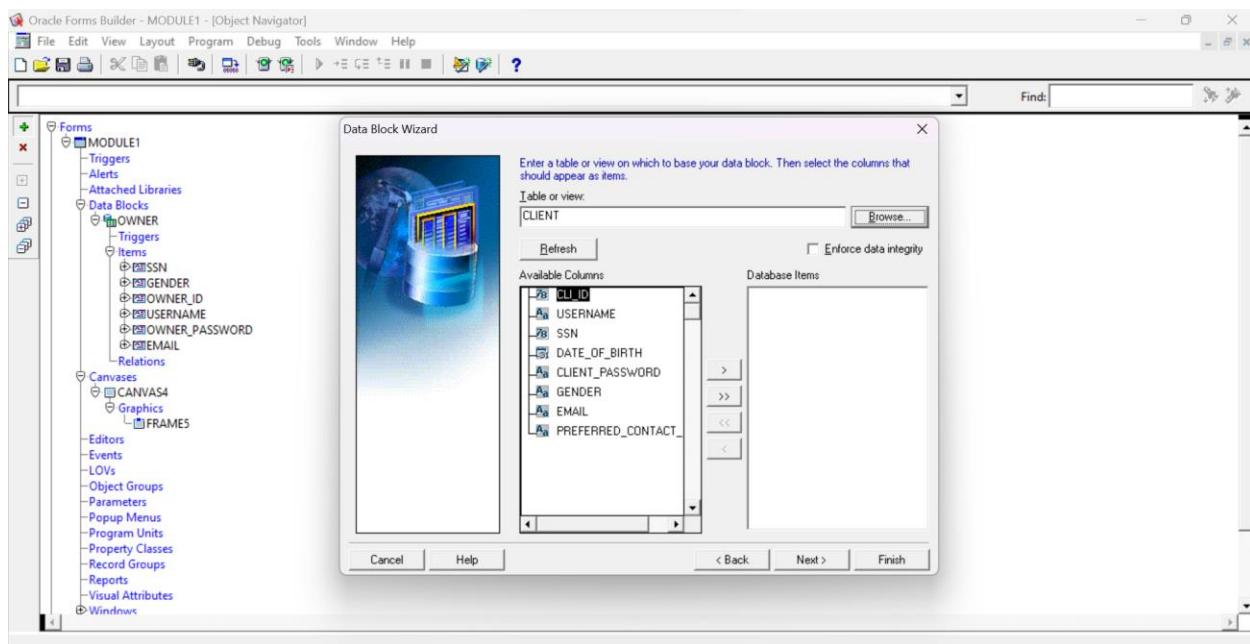


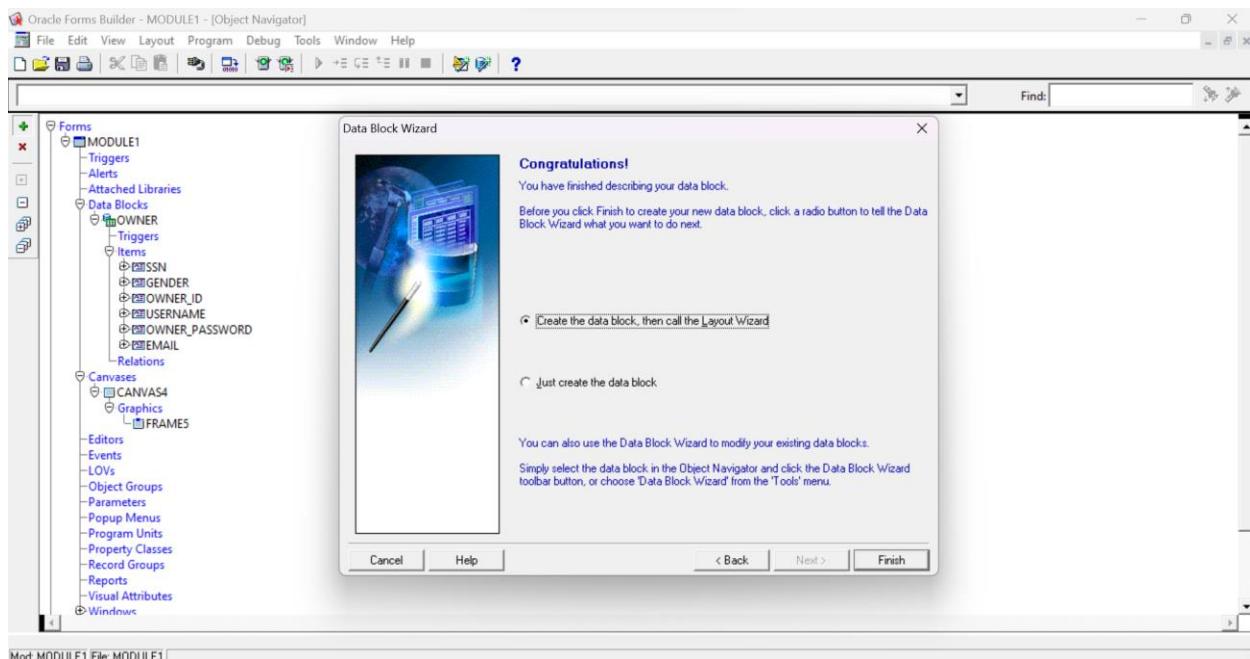
# Creating Data Blocks

(Client)

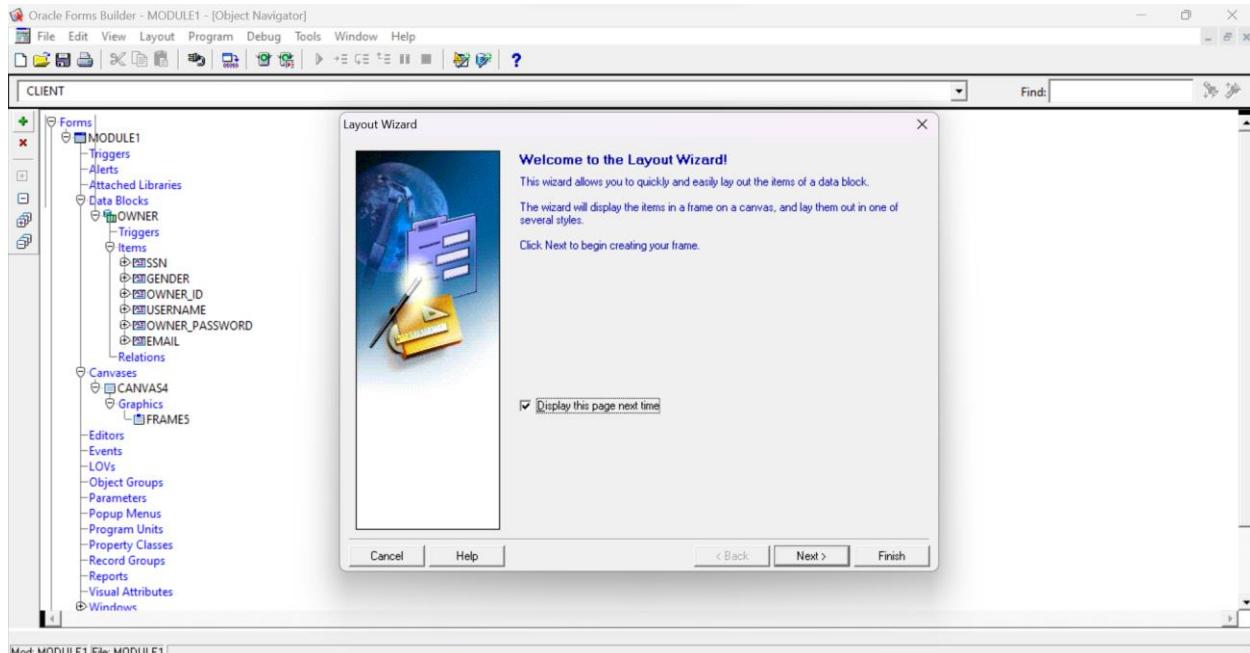




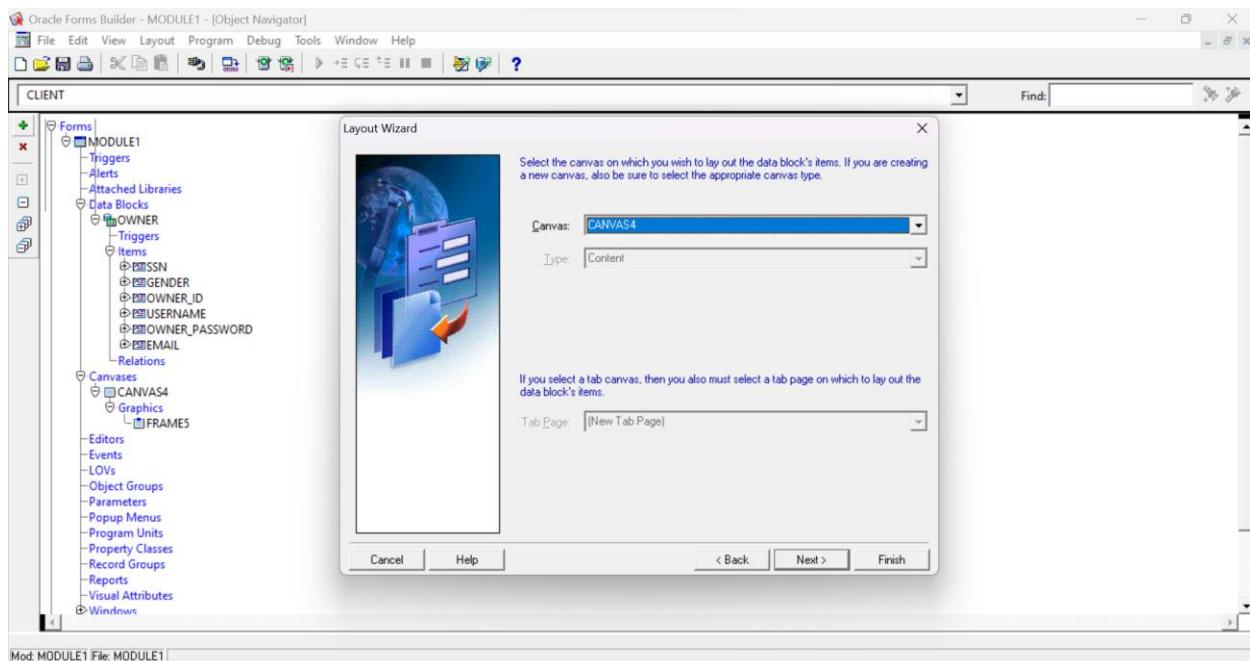




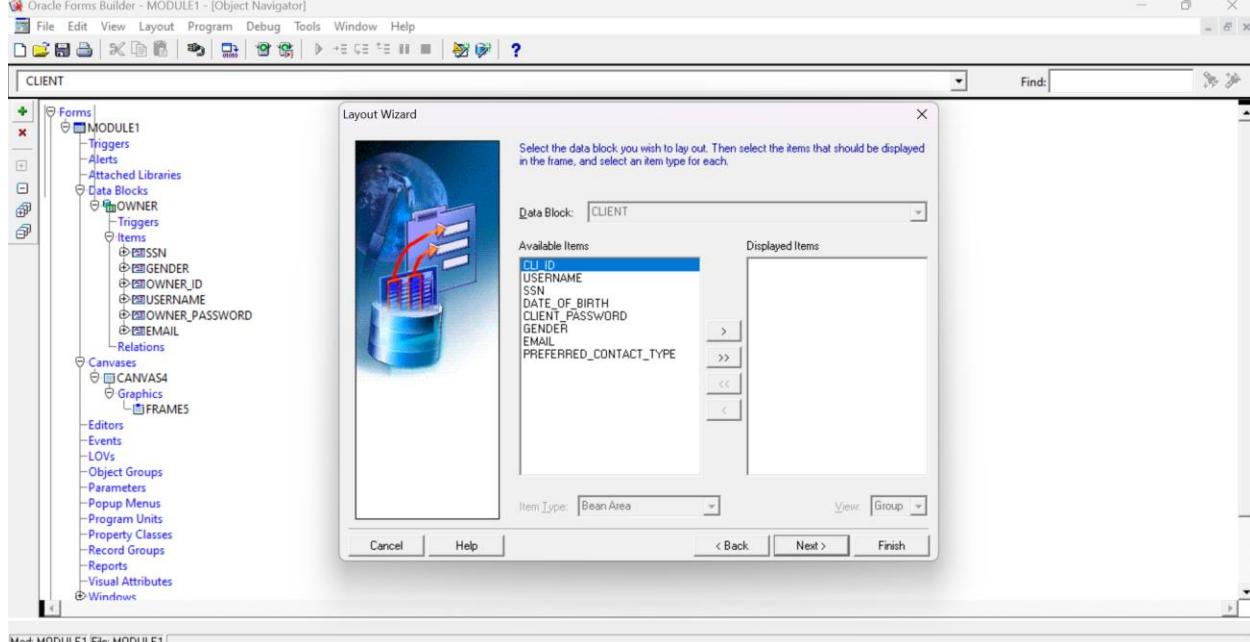
Mod: MODULE1 File: MODULE1



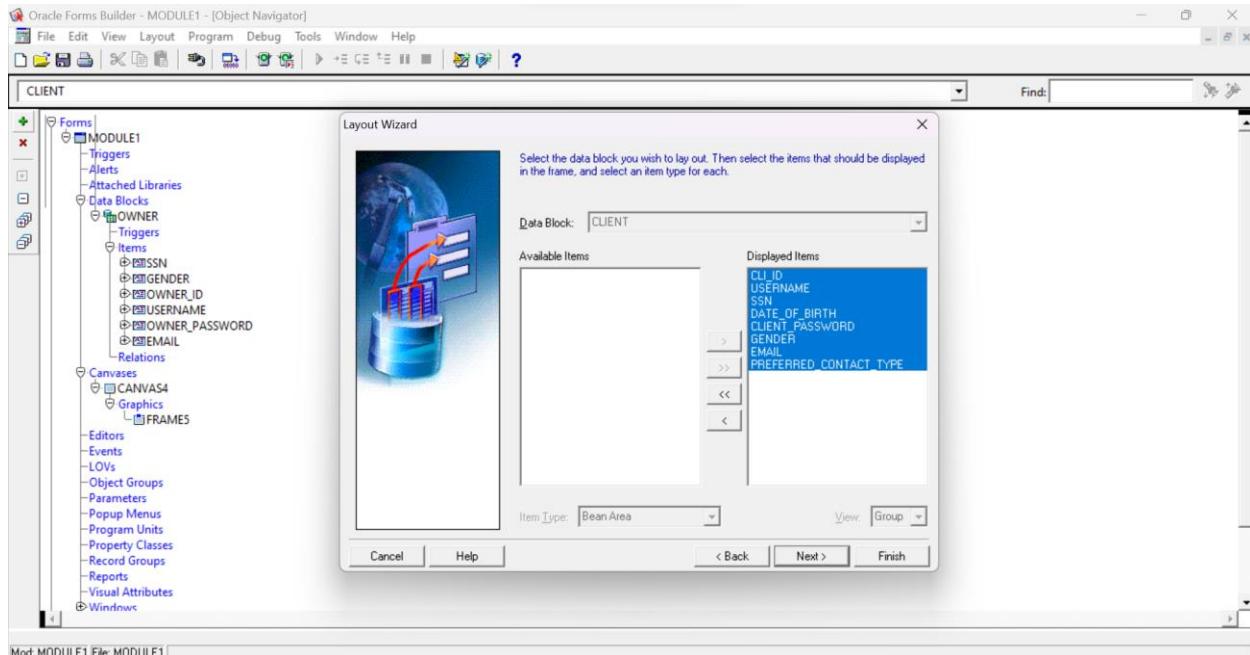
Mod: MODULE1 File: MODULE1



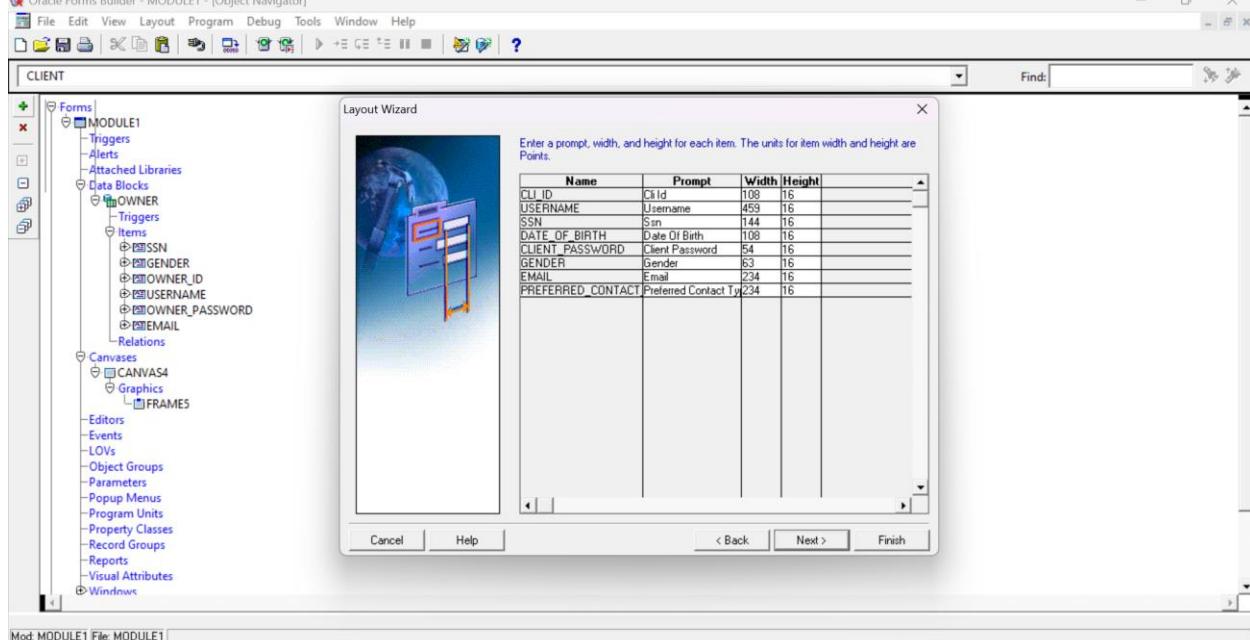
Mod: MODULE1 File: MODULE1



Mod: MODULE1 File: MODULE1



Mod: MODULE1 File: MODULE1



Mod: MODULE1 File: MODULE1

