

TEAM ID 6

ASSIGNED TA: RADWA MOUSTAFA



# PROPERTY FINDER

DBMS PROJECT - PHASE 2

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## DESCRIPTION:

### What is Property Finder?

Property finder is the Leading Real Estate Marketplace. It allows the client to Search Over 100K Listings of properties for Sale And Rent. It allows agents to offer available properties and enables the users to search and find their ideal property that meets their needs. Users can also report issues that belong to specific properties and also favor a property that matches their needs.

For the Property Finder Database System, there are four major canvases:

- Properties Canvas
- Agents Canvas
- Search Canvas
- Reports Canvas

## IMPLEMENTING TABLES USING SQL:

To create these canvases, we create the database tables in this order:

- 1.Agent\_
- 2.Agent\_Phone
- 3.User\_
- 4.User\_Phone
- 5.Property
- 6.Report\_Data
- 7.Report
- 8.Search
- 9.Favorites

Also, we created a sequence to increase the RID number.

10. RID / Report ID\_SEQUENCE

As well as we considered these assumptions in the creation process:

- The Same ssn can be used in 2 different accounts if one of them is agent acc. and the other is user ACC.
- It's not allowed to create a report many times if the report has the same (ssn, ref, category, and different comments)

## SQL code:

```
/*_____Start of Tables Creation_____*/
```

```
/*_____Agent_____*/
```

```
create table Agent_ (  
  Agent_SSN      number(14) constraint AS_PK primary key constraint AS_CH  
  check (Agent_SSN between 20000000000000 and 40000000000000),  
  email char(30) constraint AE_NN not null constraint AE_UK unique,  
  password_   varchar(20) constraint APW_NN not null,  
  First_Name  char(20) constraint AFN_NN not null,  
  Middle_Name char(20) constraint AMN_NN not null,  
  Last_Name   char(20) constraint ALN_NN not null  
);
```

```
create table Agent_Phone(  
  Agent_SSN      number(14) constraint ASSN_FK references  
  Agent_(Agent_SSN),  
  Phone          varchar2(14) constraint AP_UK unique,  
  Constraint A_P_CMP Primary Key(Agent_SSN, Phone)  
);
```

/\* \_\_\_\_\_User\_\_\_\_\_ \*/

```
create table User_ (  
  User_SSN      number(14) constraint US_PK primary key constraint US_CH  
check (User_SSN between 20000000000000 and 400000000000000),  
  email        char(30)  constraint UE_NN not null constraint UE_UK unique,  
  password_    varchar(20) constraint UPW_NN not null,  
  First_Name   char(20)  constraint UFN_NN not null,  
  Middle_Name  char(20)  constraint UMN_NN not null,  
  Last_Name    char(20)  constraint ULN_NN not null );
```

```
create table User_Phone (  
  User_SSN      number(14) constraint USSN_FK references User_(User_SSN),  
  User_Phone    varchar2(14) constraint UP_UK unique,  
  constraint U_P_CMP primary key (User_SSN, User_Phone) );
```

/\* \_\_\_\_\_Property\_\_\_\_\_ \*/

```
create table PROPERTY(  
  Reference_    varchar2(15) constraint R_PK PRIMARY KEY ,  
  Location_     varchar2(80) constraint L_NN not null,  
  Price         number(10) constraint P_NN not null constraint P_CH check (price  
> 0),  
  area         number(5)  constraint A_NN not null,  
  Num_Rooms     number(2)  constraint NR_NN not null,  
  Num_Toilets   number(1) constraint NT_NN not null,  
  Description   varchar2(800),  
  Status       char(9)   constraint Stt_NN not null,  
  Listing_Date  date,  
  Listed_for    number(4),  
  Property_Type char(20) constraint PT_NN not null,  
  Agent_SSN     number(14) constraint AS_FK references Agent_(Agent_SSN),  
  Offer_Type    char(12)  constraint OT_NN not null );
```

/\*\_\_\_\_\_Other\_\_\_\_\_\*/

```
create table Search(  
  User_SSN    number(14) constraint S_SSN_FK references User_(User_SSN),  
  Search_Query varchar2(50),  
  Query_Date  date,  
  constraint SSN_SQ_CMP primary key(User_SSN, Search_Query, Query_Date) );
```

```
create table REPORT_DATA(  
  RID        number(10) constraint RID_PK primary key,  
  REP_Date   date,  
  category_  varchar2(40) constraint C_NNnot null );
```

```
create table REPORT(  
  USER_SSN    number(14) constraint R_SSN_FK references USER_(User_SSN),  
  Reference_  varchar2(15) constraint R_REF_FK references  
Property(Reference_),  
  RID        number(10) constraint RID_FK references REPORT_DATA(RID),  
  Category_  varchar2(40) constraint CA_NN not null,  
  Comment_   varchar2(500) not null,  
  constraint SSN_REF_C_CMP primary key(USER_SSN, Reference_,RID) );
```

```
create table FAVORITES(  
  USER_SSN    number(14) constraint F_SSN_FK references User_(User_SSN),  
  Reference_  varchar2(15) constraint F_REF_FK references  
Property(Reference_),  
  constraint SSN_REF_CMP primary key(USER_SSN, Reference_) );
```

/\*\_\_\_\_\_End Of Tables\_\_\_\_\_\*/

/\* \_\_\_\_\_Sequence\_\_\_\_\_ \*/

```
create sequence RID_SEQ  
start with 1  
increment by 1  
maxvalue 9999999999
```

/\* \_\_\_\_\_End of sequence \_\_\_\_\_ \*/

/\* \_\_\_\_\_Modification\_\_\_\_\_ \*/

```
ALTER TABLE user_phone MODIFY user_phone VARCHAR(11) NOT NULL;
```

```
alter table property  
drop column listed_for;
```

```
ALTER TABLE AGENT_  
ADD Gender char(1);
```

```
ALTER TABLE USER_  
ADD Gender char(1);
```

/\* \_\_\_\_\_End of Modification \_\_\_\_\_ \*/

/\* \_\_\_\_\_Insertion Statements for AGENT\_ table\_\_\_\_\_ \*/

```
insert into agent_ values(20000000000000, 'Mahmoud@gmail.com',  
'1k1k1k1k', 'Mahmoud', 'Sayed', 'Abdein', 'M')
```

```
insert into agent_ values(20000000000001, 'Muaaz@gmail.com', '2l2l2l2l',  
'Muaaz', 'Sayed', 'Mahmoud', 'M')
```

```
insert into agent_ values(20000000000002, 'Marwa@gmail.com',  
'3m3m3m3m', 'Marwa', 'Ahmad', 'Muhammad', 'F')
```

```
insert into agent_ values(20000000000003, 'Khalid@gmail.com', '4n4n4n4n',  
'Khalid', 'Bilal', 'Saleh', 'M')
```

```
insert into agent_ values(20000000000004, 'Sayed@gmail.com', '5p5p5p5p',  
'Sayed', 'Mahmoud', 'Hussein', 'M')
```

### /\*Insertion Statements for AGENT\_PHONE table\*/

```
insert into Agent_Phone values(2000000000000000, 01060486231)
insert into Agent_Phone values(2000000000000000, 01148923108)
insert into Agent_Phone values(2000000000000001, 01293104823)
insert into Agent_Phone values(2000000000000002, 01142984102)
insert into Agent_Phone values(2000000000000003, 01148928121)
```

### /\*Insetion Statements for PROPERTIES\*/

```
insert into Property values('Ref#1', 'Cairo', 1000000, 170, 4, 2, 'A vast flat with a
lot of surrounding services', 'Y', '12-DEC-22', 'Flat', 2000000000000004, 'Rent' )
insert into Property values('Ref#2', 'Cairo', 200000000, 200, 5, 3, 'A luxurious
Villa with a fine looking garden', 'N', '14-JAN-02', 'Villa', 2000000000000004, 'Buy'
)
insert into Property values('Ref#3', 'Alexandria', 30000000, 190, 5, 2, 'An old villa
with a fine looking Lake', 'N', '02-JUN-19', 'Villa', 2000000000000002, 'Buy' )
insert into Property values('Ref#4', 'Aswan', 4000000000, 250, 6, 3, 'A big Place
that used to be a company', 'Y', '30-JUL-20', 'Corporate Building',
2000000000000000, 'Buy' )
insert into Property values('Ref#5', 'Giza', 350000000, 220, 5, 3, 'No Available
Data', 'Y', '24-MAY-14', 'Other', 2000000000000003, 'Buy' )
```

### /\*Insertion Statements for USER\_\*/

```
insert into USER_ values(26489103666540, 'Ahmed@abo.com', 'Podcast1#',
'Ahmed', 'Mostafa', 'Aboalesaad', 'M');
insert into USER_ values(30212291600052, 'Amr.Shoukry@gmail.com',
'Messi@Argentina*', 'Amr', 'Mohamed', 'Shoukry', 'M');
insert into USER_ values(26489400665540, 'Maha_Albetar@hotmail.com',
'gdic&_v', 'Maha', 'Elsayed', 'Albetar', 'F');
insert into USER_ values(36446103666569, 'El_Osta@YAYA.com',
'KholiolsGood', 'Abdo', 'Abdo', 'El-balf', 'M');
insert into USER_ values(26489156410250, 'Marwa.Ghoneim@gmail.com',
'alwaysup:)', 'Marwa', 'Mostafa', 'Ghoneim', 'F');
insert into USER_ values(20107688104388, 'BolBol@gmail.com', 'IshouldLive$',
'Ahmed', 'Samy', 'Salama', 'M');
insert into USER_ values(20358399640633, 'AbdulRahman@gmail.com',
'soi*%d', 'Abdulrahman', 'Mohamed', 'AbdelSalam', 'M');
```

```
insert into USER_ values(32850206833542, 'Dina.Aboalesaad@yahoo.com',  
'fashionalltheway&', 'Dina', 'Mostafa', 'Aboalesaad', 'F');  
insert into USER_ values(21348350369675,  
'Tasneem_Almokadem@gmail.com', 'coz7dl', 'Tasneem', 'Mohamed',  
'Almokadem', 'F');  
insert into USER_ values(35402986558800, 'Omar.Samir@hotmail.com',  
'savethe$earth', 'Omar', 'Samir', 'Bedair', 'M');
```

#### **/\*Insertion Statements for USERS\_PHONES\*/**

```
insert into USERS_PHONES values(26489103666540, 01025365907)  
insert into USERS_PHONES values(26489103666540, 01110464701);  
insert into USERS_PHONES values(30212291600052, 01127677059);  
insert into USERS_PHONES values(30212291600052, 01065978169);  
insert into USERS_PHONES values(26489400665540, 01598460053);  
insert into USERS_PHONES values(26489400665540, 01269451111);  
insert into USERS_PHONES values(36446103666569, 01515151515);
```

#### **/\*Insertion Statements for SEARCH\*/**

```
insert into SEARCH values(26489103666540, 'Nasr City Flats', '15-MAY-2019');  
insert into SEARCH values(32850206833542, 'Nasr City Duplex', '01-APR-2020');  
insert into SEARCH values(20358399640633, '5th settlement villahs', '29-DEC-  
2021');  
insert into SEARCH values(35402986558800, 'Abbaseya residential Buildings',  
'19-JUN-2022');  
insert into SEARCH values(26489156410250, 'cheap flats', '06-Feb-2017');
```

#### **/\*Insertion Statements for REPORT\_DATA\*/**

```
insert into report_data values(0, '12-DEC-22' , 'inaccurate price');  
insert into report_data values(1, '13-DEC-22', 'No property details');  
insert into report_data values(2, '14-DEC-22', 'No response from broker');  
insert into report_data values(3, '15-DEC-22', 'No property details');  
insert into report_data values(4, '16-DEC-22', 'poorly typed description');  
insert into report_data values(5, '17-DEC-22', 'poorly typed description');
```



### **/\*Insertion Statements for REPORT\*/**

```
insert into REPORT values(26489103666540, 'Ref#1' , 5, 'inaccurate price', 'No other comments');
insert into REPORT values(26489103666540, 'Ref#1' , 5, 'poorly typed description', 'no comments');
insert into REPORT values(30212291600052, 'Ref#2', 1, 'No property details' , 'need to know more details');
insert into REPORT values(26489400665540, 'Ref#3', 2, 'No response from broker' , 'this broker doesn't respond anymore and I need this property');
insert into REPORT values(36446103666569, 'Ref#4', 3, 'No property details' , 'there is no enough details');
insert into REPORT values(26489156410250, 'Ref#5', 4, 'poorly typed description' , 'description is too short');
```

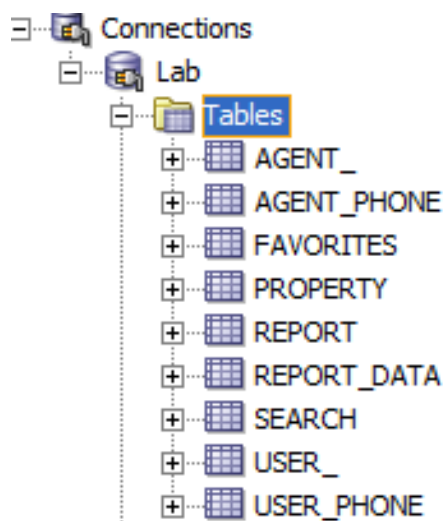
### **/\*Insertion Statements for Favorites\*/**

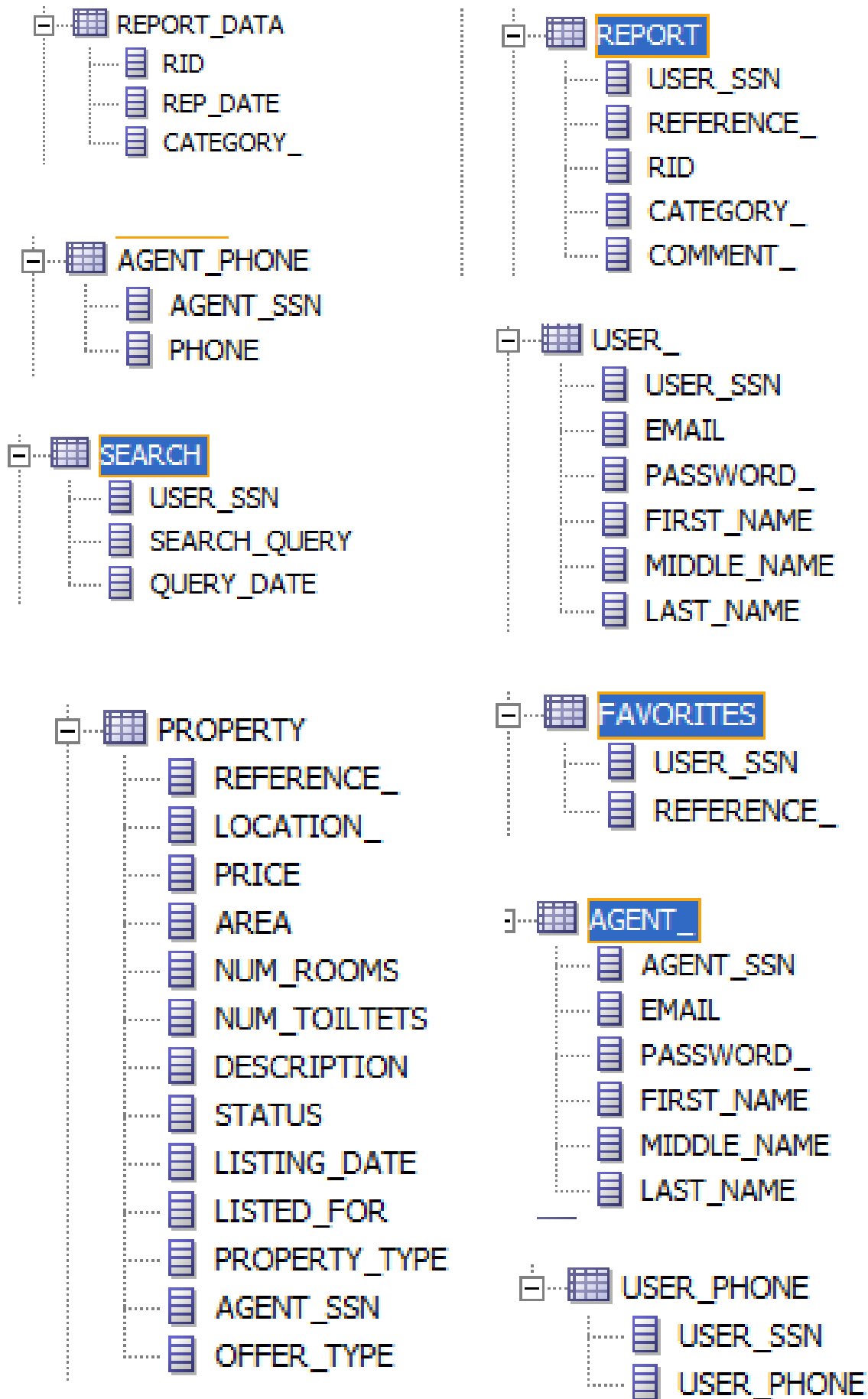
```
insert into FAVORITES values(26489103666540, 'Ref#1');
insert into FAVORITES values(30212291600052, 'Ref#2');
insert into FAVORITES values(26489400665540, 'Ref#3');
insert into FAVORITES values(36446103666569, 'Ref#4');
insert into FAVORITES values(35402986558800, 'Ref#4');
insert into FAVORITES values(26489156410250, 'Ref#5');
insert into FAVORITES values(26489156410250, 'Ref#6')04:18 AM
```

### **Source code file:**

[https://drive.google.com/file/d/1XdX96P8pkXQoIW7T2I5NsSjmXqaH84IK/view?usp=share\\_link](https://drive.google.com/file/d/1XdX96P8pkXQoIW7T2I5NsSjmXqaH84IK/view?usp=share_link)

### **Screenshots for tables implementations:**





## FORM CREATION:

### 1- IMPLEMENTING USER/SEARCH CANVAS:

This canvas includes blocks related to the User & Search tables.

This canvas utilizes the following:

- radio button
- triggers
- master detail

### Screenshots for User/Search Canvas:

The screenshot shows the Oracle User/Search Canvas form. The top menu bar includes Action, Edit, Query, Block, Record, Field, Help, and Window. The form is divided into several sections:

- User Information:** Fields for User Ssn (200000000000003), Email (User2@gmail.com), Password (d9j1012), First Name (Mariam), Middle Name (Alaa), Last Name (Mahmoud), and Gender (Male/Female).
- Navigation:** Previous Record and Next Record buttons.
- Phone Number(s):** A section for User Phone with a list of phone numbers (01049494949).
- Search History:** A table with columns Search Query and Query Date.

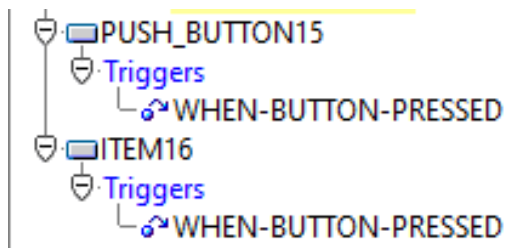
Search Query	Query Date
Alex	21-DEC-2022
Alexandria	21-DEC-2005
Alexandria	14-JUL-2006

The screenshot shows the User Data form. The form is divided into several sections:

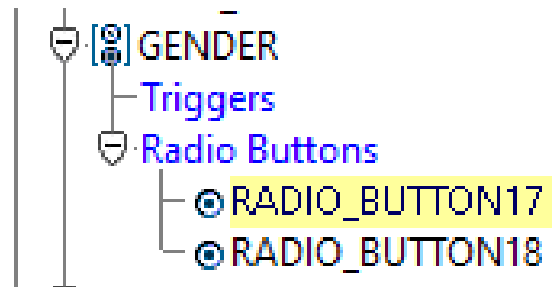
- User Data:** Fields for User Ssn (USER\_SSN), Email (EMAIL), Password (PASSWORD\_), Middle Name (MIDDLE\_NAME), First Name (FIRST\_NAME), Last Name (LAST\_NAME), and Gender (Male/Female).
- Navigation:** Previous Record and Next Record buttons.
- Phone Number(s):** A section for User Phone with a list of phone numbers (USER\_PHONE).
- Search History:** A table with columns Search Query and Query Date.

Search Query	Query Date
SEARCH_QUERY	QUERY_DATE
SEARCH_QUERY	QUERY_DATE
SEARCH_QUERY	QUERY_DATE

## Buttons:



## Gender:



General	
Name	RADIO_BUTTON18
Subclass Information	
Comments	
Functional	
Enabled	Yes
Label	Male
Access Key	
Radio Button Value	M

General	
Name	RADIO_BUTTON17
Subclass Information	
Comments	
Functional	
Enabled	Yes
Label	Female
Access Key	
Radio Button Value	F

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	
Keyboard Navigable	Yes
Mouse Navigate	Yes
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
Data	
Data Type	Char
Data Length Semantics	BYTE
Maximum Length	1
Initial Value	M
Copy Value from Item	

user to search join condition

Data Block Wizard

You may optionally create and delete master-detail relationships to other data blocks in your form.

Create Relationship...

☒ Auto-join data blocks

Delete Relationship

Master Data Blocks

USER

Detail Item

USER\_SSN

Master Item

USER\_SSN

Join Condition

SEARCH1.USER\_SSN = USER\_USER\_SSN

Cancel Help < Back Next > Finish

user to user\_phone joining condition:

Data Block Wizard

You may optionally create and delete master-detail relationships to other data blocks in your form.

Create Relationship...

☒ Auto-join data blocks

Delete Relationship

Master Data Blocks

USER

Detail Item

USER\_SSN

Master Item

USER\_SSN

Join Condition

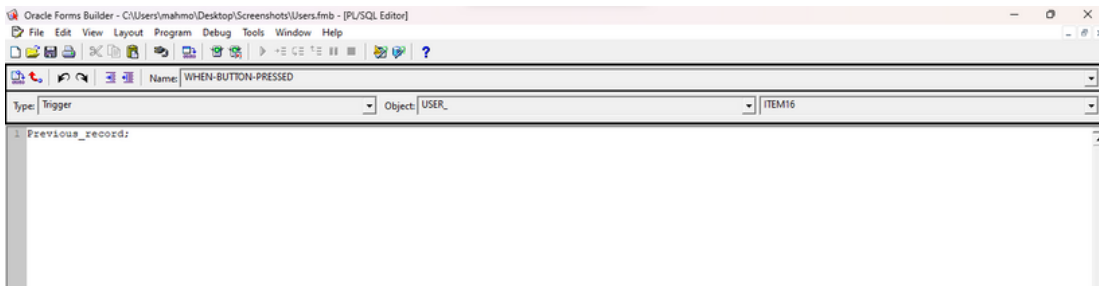
USERS\_PHONES1.USER\_SSN = USER\_USER\_SSN

Cancel Help < Back Next > Finish

Next record button 1:

General	
Name	PUSH_BUTTON15
Item Type	Push Button
Subclass Information	
Comments	
Help Book Topic	
Functional	
Enabled	Yes
Label	Next Record
Access Key	
Implementation Class	
Iconic	No
Icon Filename	
Default Button	No
Popup Menu	<Null>

## Previous record button 1&2:



General	
Name	ITEM16
Item Type	Push Button
Subclass Information	
Comments	
Help Book Topic	
Functional	
Enabled	Yes
Label	Previous Record
Access Key	
Implementation Class	
Iconic	No
Icon Filename	
Default Button	No
Popup Menu	<Null>
Navigation	
Keyboard Navigable	Yes

## The source file of canvas .fmb:

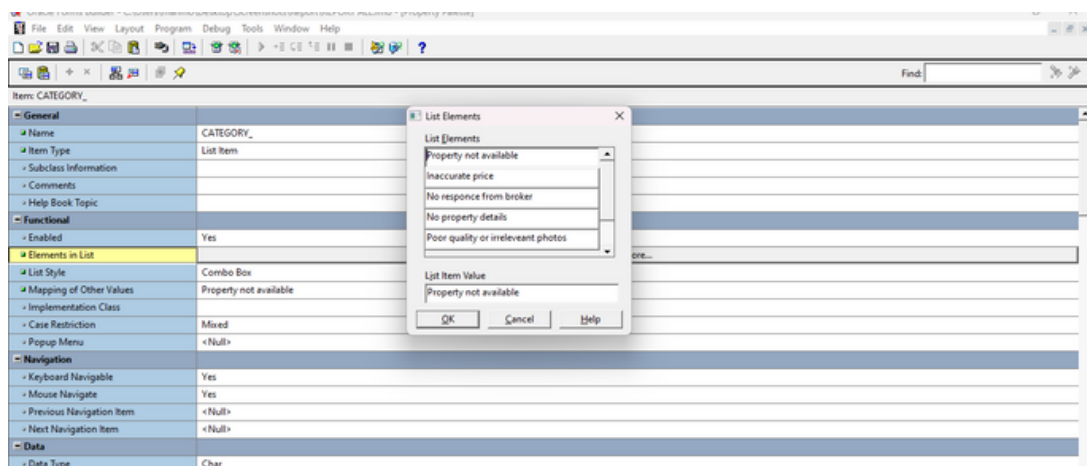
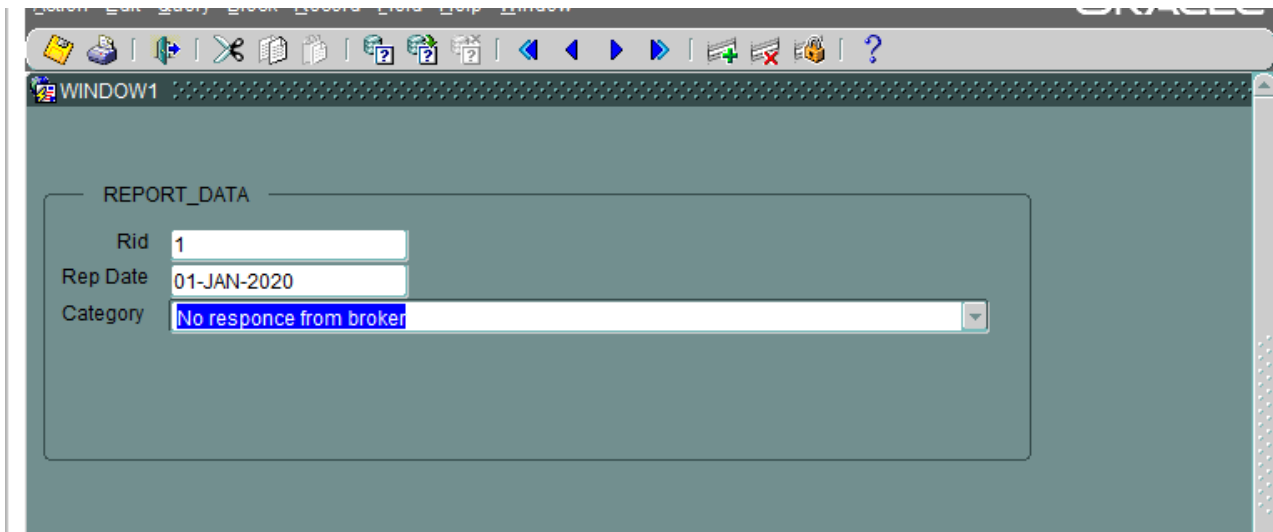
<https://drive.google.com/file/d/1ODKHsebMgCifazA532OfMGxR3jBXLST4/view?usp=sharing>

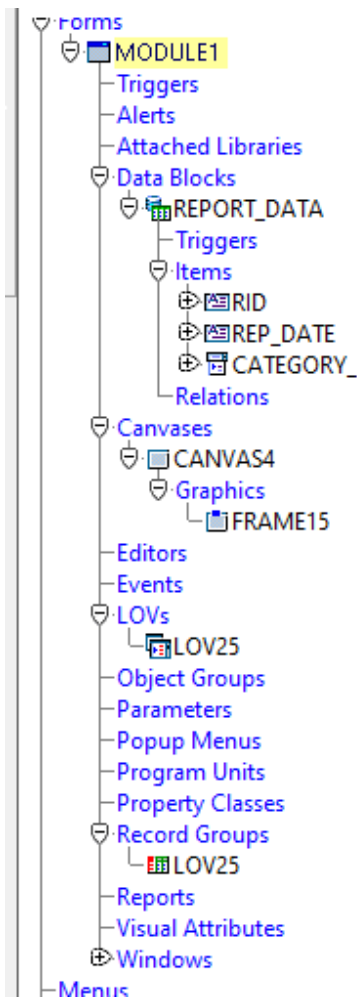
## 2- IMPLEMENTING REPORT CANVAS:

This canvas includes blocks related to the Report & Report Data tables.  
This canvas utilizes the following:

- Combo box
- List of Values

### Screenshots for Report Canvas:





REPORT\_DATA

Rid: 1

Rep Date:

Category: Report\_content

Find: 200000000000006%

Comment\_: Why doesnt the broker respond

Find OK Cancel

REPORT\_DATA

Rid: 1

Rep Date: 01-JAN-2020

Category: No response from broker

Find: 200000000000006

User\_Ssn: k2/f3n

Find OK Cancel

REPORT\_DATA

Rid: 1

Rep Date: 01-JAN-2020

Category: No response from broker

Find: 1

Rid: 1

Category: No response from broker

Find OK Cancel

**The source file of canvas .fmb:**

<https://drive.google.com/file/d/1IvvgyXzP5ON8bUg8tvNqbtgkg1-iUJ1q/view?usp=sharing>

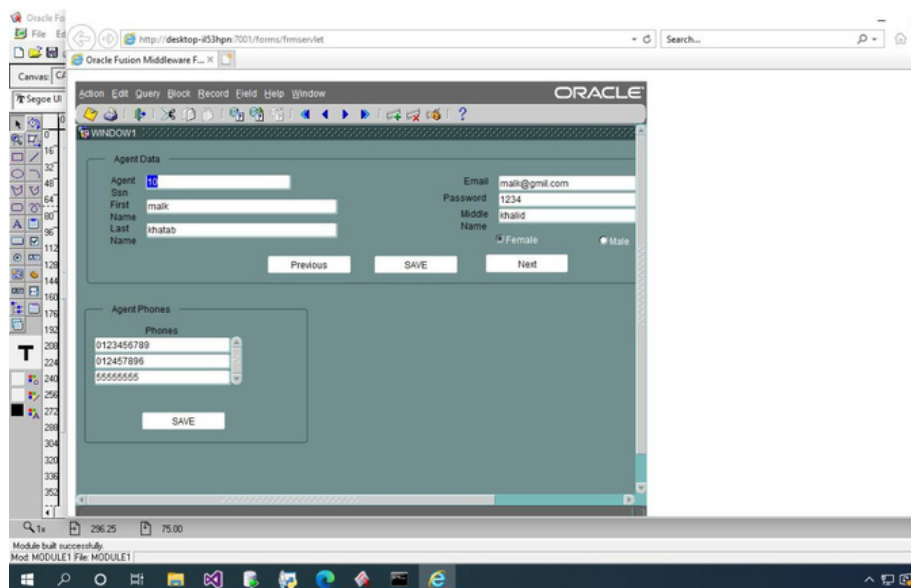
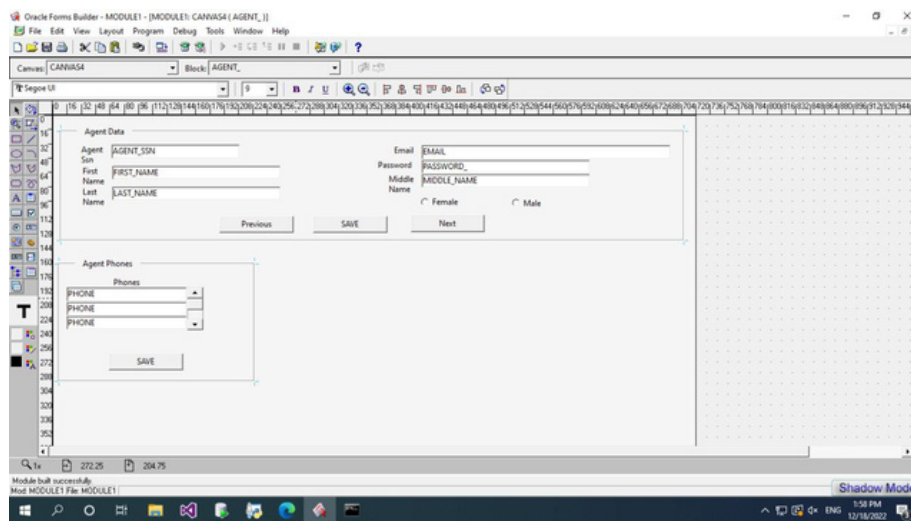


### 3- IMPLEMENTING AGENT CANVAS:

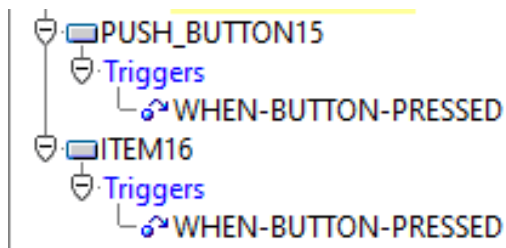
This canvas includes blocks related to the Agent phone & Agent Data tables. This canvas utilizes the following:

- radio button
- triggers
- master detail

#### Screenshots for Agent Canvas:



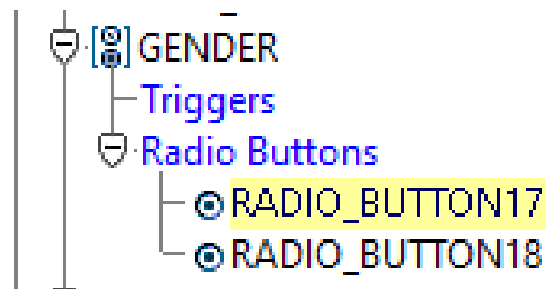
## Buttons:



```
Type: Trigger
1 previous_record;
```

```
Type: Trigger
1 commit;
```

## Gender:



```
Type: Trigger
1 next_record;
```

General	
Name	RADIO_BUTTON18
Subclass Information	
Comments	
Functional	
Enabled	Yes
Label	Male
Access Key	
Radio Button Value	M

General	
Name	RADIO_BUTTON17
Subclass Information	
Comments	
Functional	
Enabled	Yes
Label	Female
Access Key	
Radio Button Value	F

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	
Keyboard Navigable	Yes
Mouse Navigate	Yes
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
Data	
Data Type	Char
Data Length Semantics	BYTE
Maximum Length	1
Initial Value	M
Copy Value from Item	

## The source file of canvas .fmb:

[https://drive.google.com/file/d/1qR7631liO5ovcS\\_4cVec0VUvRHi43Ny\\_/view?usp=sharing](https://drive.google.com/file/d/1qR7631liO5ovcS_4cVec0VUvRHi43Ny_/view?usp=sharing)

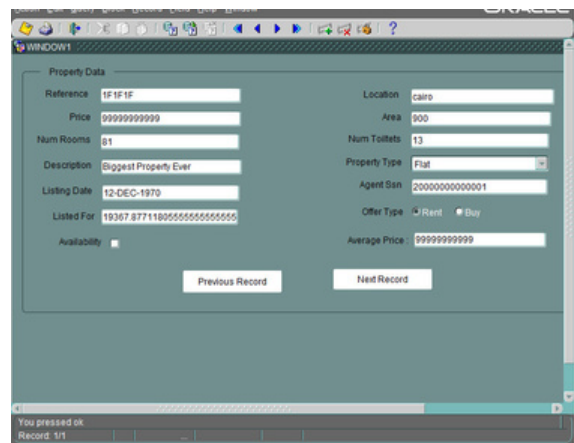
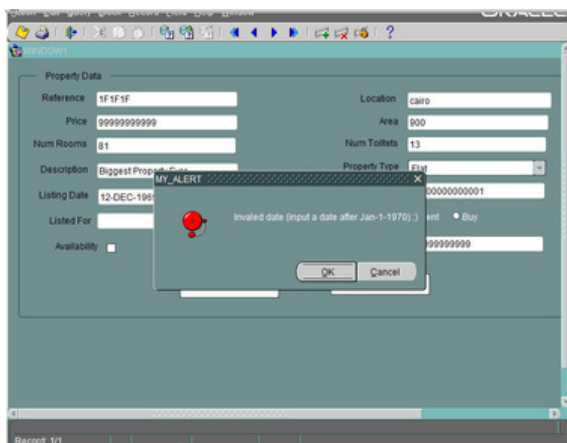
## 4- IMPLEMENTING PROPERTY CANVAS:

This canvas includes blocks related to the Properties tables.

This canvas utilizes the following:

- radio buttons
- push buttons
- check box
- formula
- summary
- alert
- combo box

### Screenshots for Agent Canvas:



Property Data	
Reference: REFERENCE_	Location: LOCATION_
Price: PRICE	Area: AREA
Num Rooms: NUM_ROOMS	Num Toilets: NUM_TOILETS
Description: DESCRIPTION	Property Type: PROPERTY_TYPE
Listing Date: LISTING_DATE	Agent Ssn: AGENT_SSN
Listed For: DISPLAY_ITEM17	Offer Type: <input type="radio"/> Rent <input type="radio"/> Buy
Availability: <input checked="" type="checkbox"/>	Average Price: DISPLAY_ITEM29
<div>Previous RecordNext Record</div>	

```
Type: Trigger
1 previous_record;
```

```
Type: Trigger
1 commit;
```

```
Type: Trigger
1 next_record;
```

## Listing data alert:

```
1 Declare
2   b number;
3 Begin
4   If :property.Listing_Date < '01-JAN-1970' then
5     b:= show_alert('My_Alert');
6     If b = 88 then
7       Message('You pressed ok');
8       Message('You pressed ok');
9       Raise form_trigger_failure;
10    Elsf b = 89 then
11      Message('You pressed ok');
12      Message('You pressed ok');
13    End if;
14  End if;
15 End;
```

```
1 Declare
2   b number;
3 Begin
4   If :property.Listing_Date < '01-JAN-1970' then
5     b:= show_alert('My_Alert');
6     If b = 88 then
7       Message('You pressed ok');
8       Message('You pressed ok');
9       Raise form_trigger_failure;
10    Elsf b = 89 then
11      Message('You pressed ok');
12      Message('You pressed ok');
13    End if;
14  End if;
15 End;
```

Property Data

Reference: REFERENCE\_  
Price: PRICE  
Num Rooms: NUM\_ROOMS  
Description: DESCRIPTION  
Listing Date: LISTING\_DATE  
Listed For: DISPLAY\_ITEM1  
Availability: ☒

Location: LOCATION\_  
Area: AREA  
Num Toilets: NUM\_TOILETS  
Property Type: PROPERTY\_TYPE  
Agent Ssn: AGENT\_SSN  
Offer Type: ☐ Rent ☐ Buy  
Average Price: DISPLAY\_ITEM29

Next Record

Context Menu:

- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Paste (Ctrl+V)
- Property Palette
- PL/SQL Editor
- Data Block Wizard
- Layout Wizard
- Update Layout
- Smart Triggers**
- SmartClasses
- Help

Smart Triggers Sub-menu:

- WHEN-VALIDATE-ITEM**
- WHEN-NEW-ITEM-INSTANCE
- PRE-TEXT-ITEM
- POST-TEXT-ITEM
- WHEN-CUSTOM-ITEM-EVENT
- Other

Property Data

Reference: REFERENCE\_  
Price: PRICE  
Num Rooms: NUM\_ROOMS  
Description: DESCRIPTION  
Listing Date: LISTING\_DATE  
Listed For: DISPLAY\_ITEM1  
Availability: ☒

Location: LOCATION\_  
Area: AREA  
Num Toilets: NUM\_TOILETS  
Property Type: PROPERTY\_TYPE  
Agent Ssn: AGENT\_SSN  
Offer Type: ☐ Rent ☐ Buy  
Average Price: DISPLAY\_ITEM29

Next Record

Context Menu:

- Cut (Ctrl+X)
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- SmartClasses
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Smart Triggers Sub-menu:

- WHEN-VALIDATE-ITEM**
- WHEN-NEW-ITEM-INSTANCE
- PRE-TEXT-ITEM
- POST-TEXT-ITEM
- WHEN-CUSTOM-ITEM-EVENT
- Other

## AVAILABILITY\_CHECKBOX

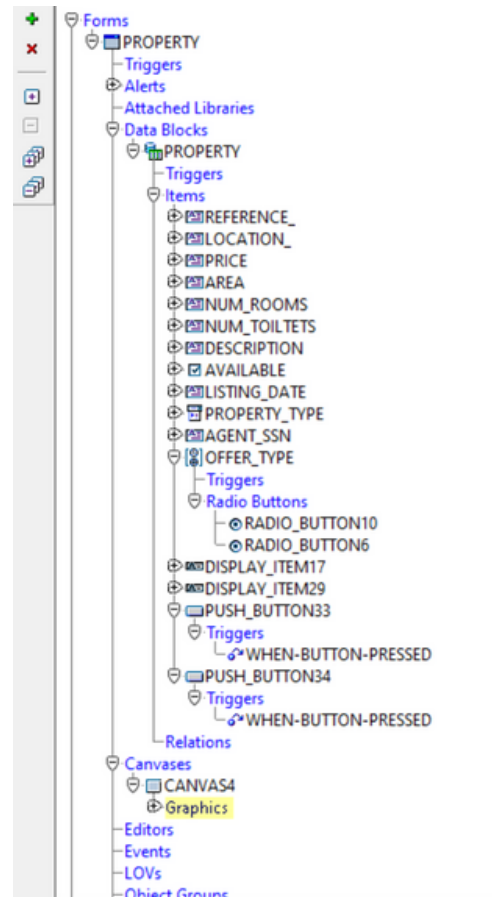
Item: AVAILABLE	
<b>General</b>	
Name	AVAILABLE
Item Type	Check Box
Subclass Information	
Comments	
Help Book Topic	
<b>Functional</b>	
Enabled	Yes
Label	
Access Key	
Implementation Class	
Value when Checked	Y
Value when Unchecked	N
Check Box Mapping of Other Values	Unchecked
Popup Menu	<Null>
<b>Navigation</b>	
Keyboard Navigable	Yes
Mouse Navigate	Yes
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
<b>Data</b>	
Data Type	Char
Data Length Semantics	BYTE
Maximum Length	9
Initial Value	Yes
Copy Value from Item	
Synchronize with Item	<Null>
<b>Calculation</b>	

Item: AVAILABLE	
<b>General</b>	
Name	AVAILABLE
Item Type	Check Box
Subclass Information	
Comments	
Help Book Topic	
<b>Functional</b>	
Enabled	Yes
Label	
Access Key	
Implementation Class	
Value when Checked	Y
Value when Unchecked	N
Check Box Mapping of Other Values	Unchecked
Popup Menu	<Null>
<b>Navigation</b>	
Keyboard Navigable	Yes
Mouse Navigate	Yes
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
<b>Data</b>	
Data Type	Char
Data Length Semantics	BYTE
Maximum Length	9
Initial Value	Yes
Copy Value from Item	
Synchronize with Item	<Null>
<b>Calculation</b>	

## SUMMARY\_AVERAGE\_PRICE:

Item: DISPLAY_ITEM29	
<b>General</b>	
Item Type	Display Item
Subclass Information	
Comments	
Help Book Topic	
<b>Functional</b>	
Justification	Start
Popup Menu	<Null>
<b>Navigation</b>	
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
<b>Data</b>	
Data Type	Number
Data Length Semantics	Null
Maximum Length	30
Initial Value	
Format Mask	
Copy Value from Item	
Synchronize with Item	<Null>
<b>Calculation</b>	
Calculation Mode	Summary
Formula	
Summary Function	Avg
Summarized Block	PROPERTY
Summarized Item	PRICE
<b>Records</b>	
Current Record Visual Attribute Group	<Null>
Distance Between Records	0
Number of Items Displayed	0

## PROPERTY\_OBJECT\_NAVIGATOR



# PROPERTY\_TYPE\_COMBOBOX

Item: PROPERTY_TYPE	
Item Type	List Item
Subclass Information	
Comments	
Help Book Topic	
Functional	
Enabled	Yes
Elements in List	
List Style	Combo Box
Mapping of Other Values	
Implementation Class	
Case Restriction	Mixed
Popup Menu	<Null>
Navigation	
Keyboard Navigable	Yes
Mouse Navigate	Yes
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
Data	
Data Type	Char
Data Length Semantics	BYTE
Maximum Length	20
Initial Value	Other
Required	Yes
Copy Value from Item	
Synchronize with Item	<Null>
Calculation	
Calculation Mode	None
Formula	

List Elements

Villa

Flat

Duplex

Bedroom

Residential Building

List Item Value

Villa

OKCancelHelp

# LISTED\_FOR

Item: DISPLAY_ITEM17	
General	
Name	DISPLAY_ITEM17
Item Type	Display Item
Subclass Information	
Comments	
Help Book Topic	
Functional	
Justification	Start
Popup Menu	<Null>
Navigation	
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
Data	
Data Type	Integer
Data Length Semantics	Null
Maximum Length	30
Initial Value	
Format Mask	
Copy Value from Item	
Synchronize with Item	<Null>
Calculation	
Calculation Mode	Formula
Formula	SYSDATE - LISTING_DATE
Summary Function	None
Summarized Block	<Null>
Summarized Item	<Null>
Records	
Current Record Visual Attribute Group	<Null>

Item: DISPLAY_ITEM17	
General	
Name	DISPLAY_ITEM17
Item Type	Display Item
Subclass Information	
Comments	
Help Book Topic	
Functional	
Justification	Start
Popup Menu	<Null>
Navigation	
Previous Navigation Item	<Null>
Next Navigation Item	<Null>
Data	
Data Type	Integer
Data Length Semantics	Null
Maximum Length	30
Initial Value	
Format Mask	
Copy Value from Item	
Synchronize with Item	<Null>
Calculation	
Calculation Mode	Formula
Formula	SYSDATE - LISTING_DATE
Summary Function	None
Summarized Block	<Null>
Summarized Item	<Null>
Records	
Current Record Visual Attribute Group	<Null>

Item: DISPLAY_ITEM17	
<b>General</b>	
✓ Name	DISPLAY_ITEM17
✓ Item Type	Display Item
✓ Subclass Information	
✓ Comments	
✓ Help Book Topic	
<b>Functional</b>	
✓ Justification	Start
✓ Popup Menu	<Null>
<b>Navigation</b>	
✓ Previous Navigation Item	<Null>
✓ Next Navigation Item	<Null>
<b>Data</b>	
✓ Data Type	Integer
✓ Data Length Semantics	Null
✓ Maximum Length	30
✓ Initial Value	
✓ Format Mask	
✓ Copy Value from Item	
✓ Synchronize with Item	<Null>
<b>Calculation</b>	
✓ Calculation Mode	Formula
✓ Formula	SYSDATE - :LISTING_DATE
✓ Summary Function	None
✓ Summarized Block	<Null>
✓ Summarized Item	<Null>
<b>Records</b>	
✓ Current Record Visual Attribute Group	<Null>

## The source file of canvas .fmb:

[https://drive.google.com/file/d/1xweaOWfHwk48G85PD5c2wELR5q\\_uPzwN/view?usp=sharing](https://drive.google.com/file/d/1xweaOWfHwk48G85PD5c2wELR5q_uPzwN/view?usp=sharing)

## SUMMARY :

In our project, we utilize all the requirements in the canvases above.

Link of All canvas together:

<https://drive.google.com/drive/folders/1mmRXL61HuiyOcFQ7Thhg06itLvLfo-LE?usp=sharing>

You can navigate our project through our website here:

<https://dinasolita.github.io/Property-Finder---DBMS-PROJECT/>