TEAM ID 6

ASSIGNED TA: RADWA MOUSTAFA



PROPERTY FINDER

DBMS PROJECT - PHASE

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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_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:

```
_____Agent____
create table Agent_(
Agent_SSN
            number(14) constraint AS_PK primary key constraint AS_CH
check (Agent_SSN between 200000000000 and 400000000000),
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 2000000000000 and 4000000000000),
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,
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);
```

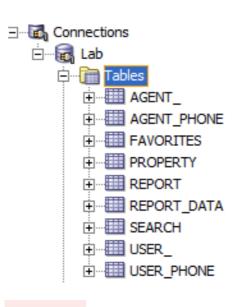
```
/*_____Other____
create table Search(
User_SSN number(14) constraint S_SSN_FK references User_(User_SSN),
Search_Query varchar2(50),
Query_Date date,
constraint SSN_SQ_CMP primary key(User_SSN, Search_Query, Query_Date) );
create table REPORT_DATA(
RID
         number(10) constraint RID_PK primary 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_____
```

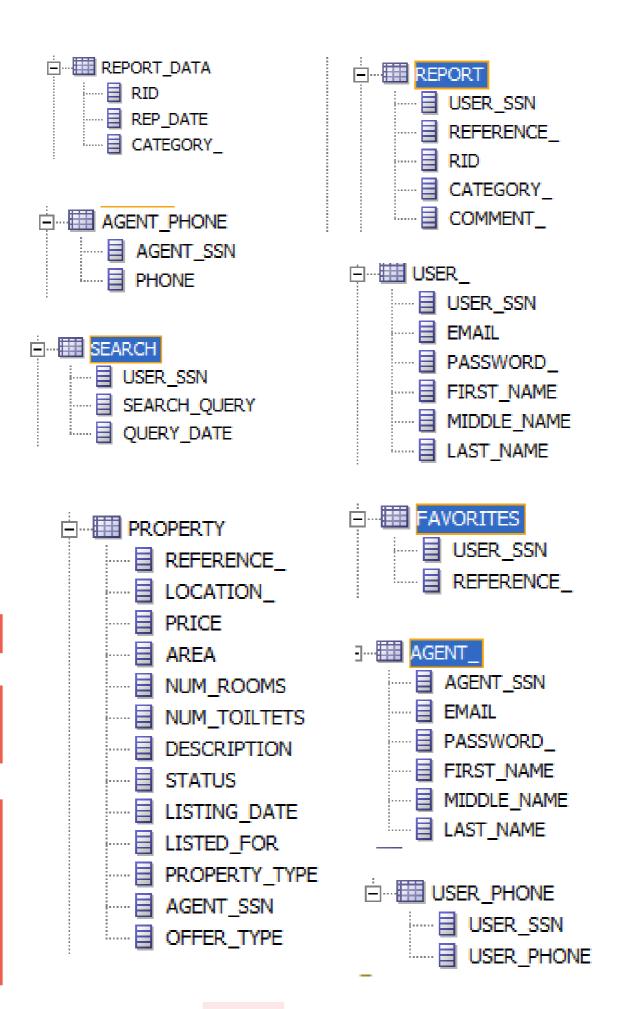
/*	Sequence	*/
create sequence RID_SEQ start with 1		
increment by 1		
maxvalue 9999999999		
	End of sequence	*/
<u>/*</u>	Modification	*/
ALTER TABLE user_phone N	MODIFY user_phone VARCHAR(11) NOT NULL;	
alter table property		
drop column listed_for;		
ALTER TABLE AGENT_		
ADD Gender char(1);		
ALTER TABLE USER_		
ADD Gender char(1);		
/ *	End of Modification	*/

Source code file:

https://drive.google.com/file/d/1mlKaUYwHkwTuI9vevHydAHKf7llaXhIH/view?usp=sharing

Screenshots for tables implementations:





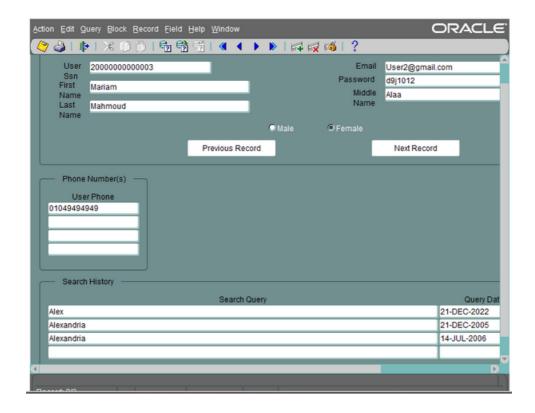
FORM CREATION:

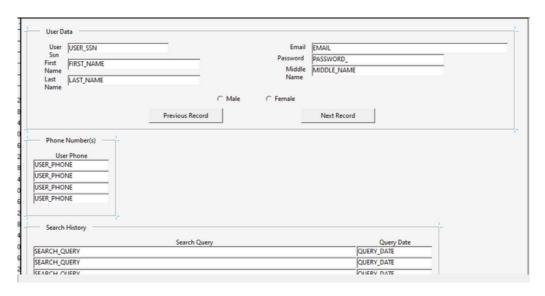
1- IMPLEMENTING USER/SEARCH CANVAS:

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:

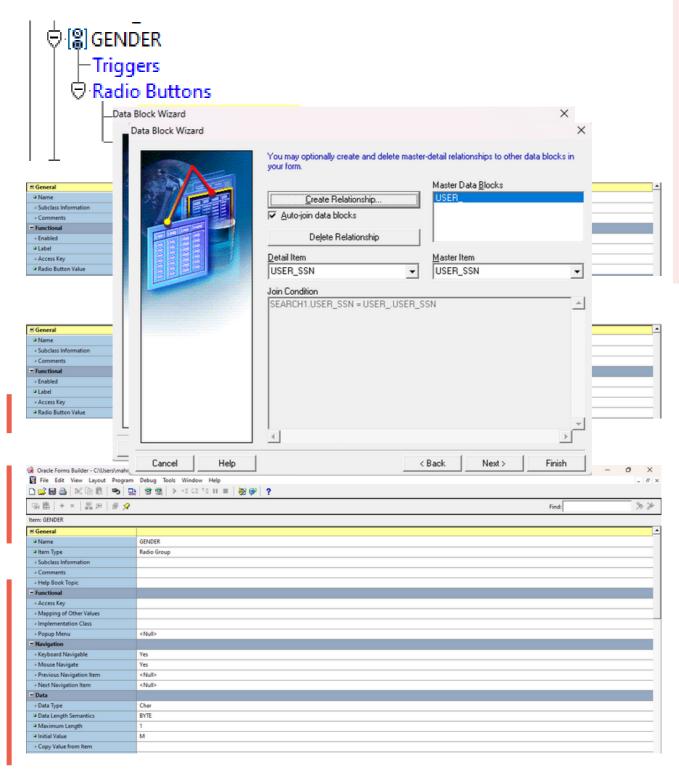




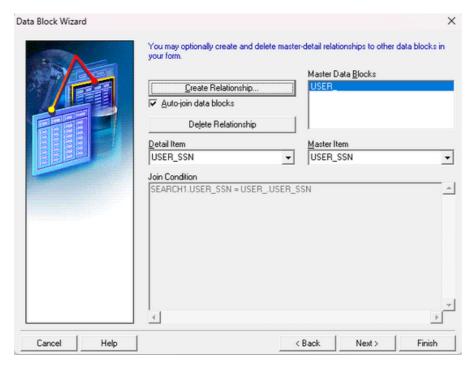
Buttons:

```
DEPUSH_BUTTON15
DEPUSH_BUTTON15
DEPUSH_BUTTON15
DEPUSH_BUTTON15
DEPUSH_BUTTON15
DEPUSH_BUTTON-PRESSED
DEPUSH_BUTTON-PRESSED
```

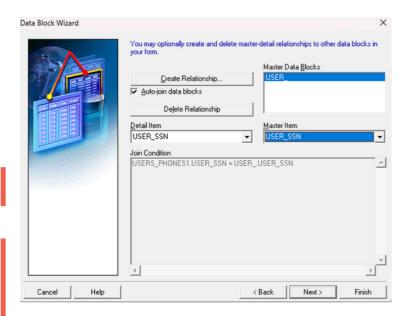
Gender:



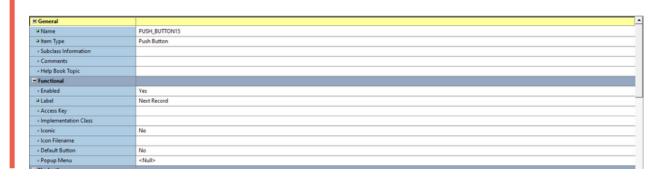
user to search join condition



user to user_phone joing condition:



Next record button 1:



Previous record button 1&2:





The source file of canvas .fmb:

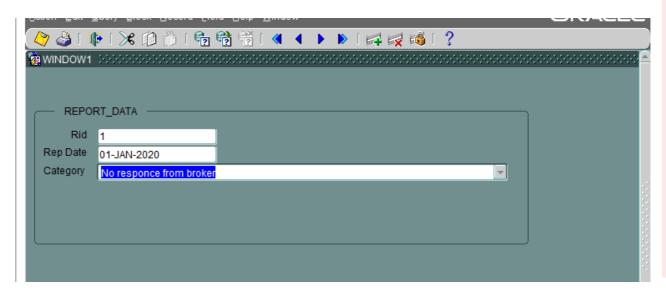
https://drive.google.com/file/d/1ODKHsebMgCifazA532OfMGxR3jBXLST4/view ?usp=sharing

2- IMPLEMENTING REPORT CANVAS:

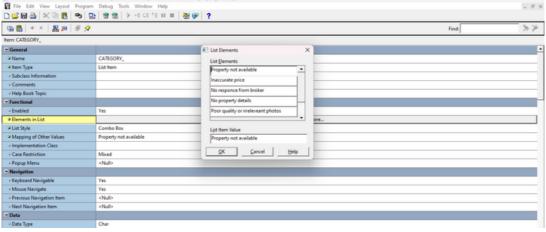
This canvas includes blocks related to the Report & Report Data tables. This canvas utilizes the following:

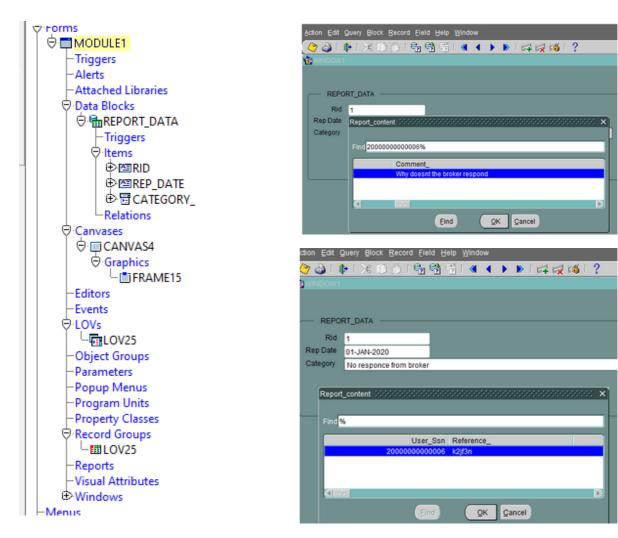
- Combo box
- List of Values

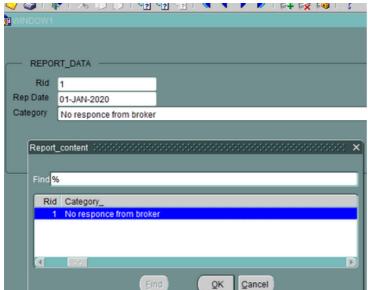
Screenshots for Report Canvas:











The source file of canvas .fmb:

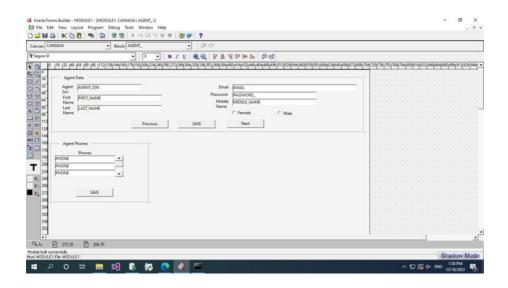
https://drive.google.com/file/d/IIvvgyXzP5ON8bUg8tvNqbtgkg1-iUJ1q/view?usp=sharing

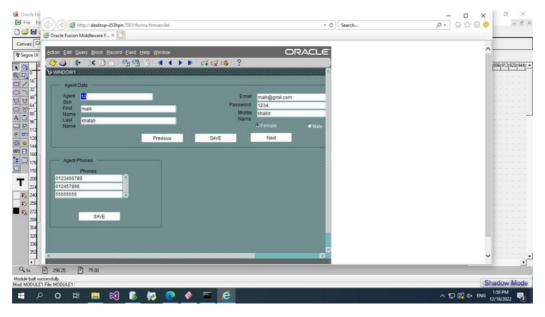
2- IMPLEMENTING AGENT CANVAS:

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:





The source file of canvas .fmb:

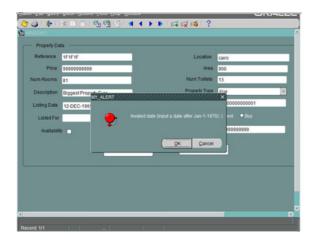
https://drive.google.com/file/d/1qR7631liO5ovcS_4cVec0VUvRHi43Ny_/view?usp=sharing

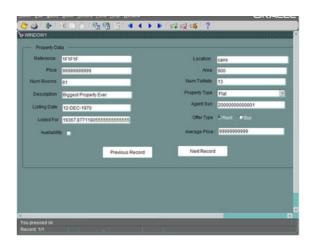
3- IMPLEMENTING PROPERTY CANVAS:

This canvas includes blocks related to the Proberties tables. This canvas utilizes the following:

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

Screenshots for Agent Canvas:







Listing data alert:

```
Declare

b number;

Begin

If :property.Listing_Date < '01-JAN-1970' then

b:= show_alert('My_Alert');

If b = 88 then

Message('You pressed ok');

Message('You pressed ok');

Raise form_trigger_failure;

Elsif b = 89 then

Message('You pressed ok');

Message('You pressed ok');

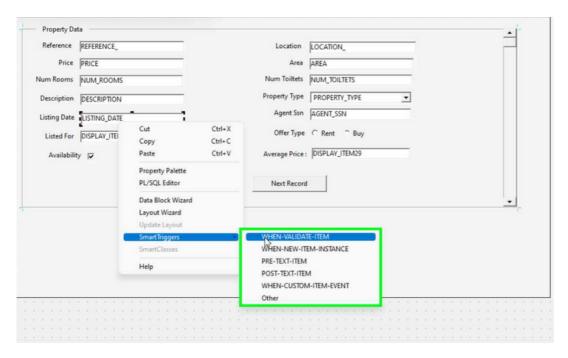
Message('You pressed ok');

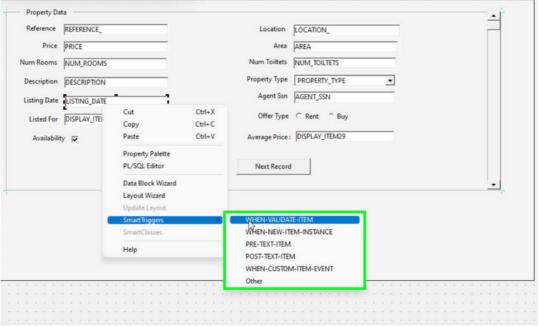
End if;

End if;

End;
```

```
Declare
b number;
Begin
If :property.Listing_Date < '01-JAN-1970' then
b:= show_alert('My_Alert');
If b = 88 then
Message('You pressed ok');
Raise form_trigger_failure;
Elsif b = 89 then
Message('You pressed ok');
Message('You pressed ok');
Elsif b = 89 then
Message('You pressed ok');
End if;
End if;
End if;
End;
```

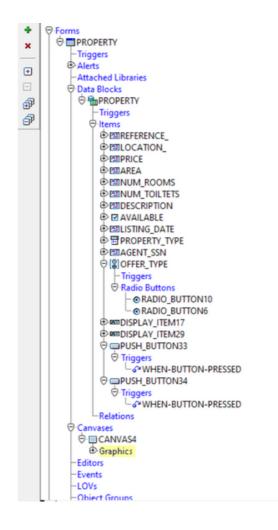


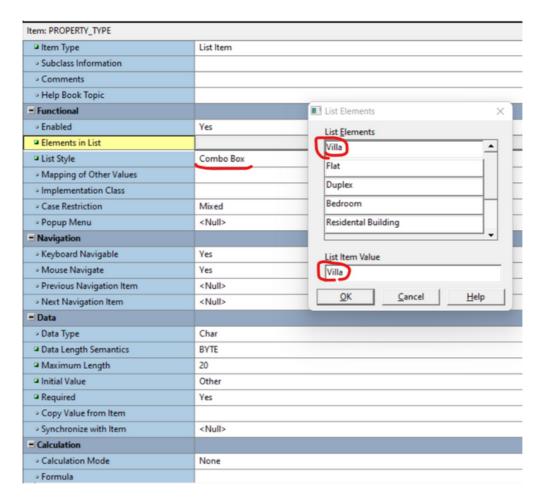


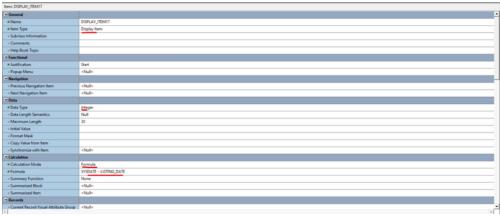
General	
Name	AVAILABLE
■ Item Type	Check Box
Subclass Information	
Comments	
Help Book Topic	
Functional	
∘ Enabled	Yes
∘ Label	
Access Key	
∘ Implementation Class	
■ Value when Checked	Υ
☑ Value when Unchecked	N
■ Check Box Mapping of Other Values	Unchecked
Popup Menu	<null></null>
Navigation	
 Keyboard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

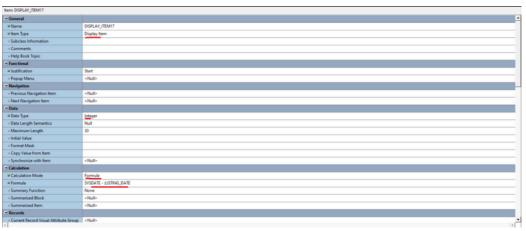
General	
■ Name	AVAILABLE
☑ Item Type	Check Box
∘ Subclass Information	
Comments	
∘ Help Book Topic	
Functional	
∘ Enabled	Yes
∘ Label	
→ Access Key	
∘ Implementation Class	
² Value when Checked	Υ
☑ Value when Unchecked	N
Check Box Mapping of Other Values	Unchecked
Popup Menu	<null></null>
Navigation	
Keyboard Navigable	Yes
Mouse Navigate	Yes
Previous Navigation Item	<null></null>
 Next Navigation Item 	<null></null>
- Data	
∘ Data Type	Char
☐ Data Length Semantics	BYTE
Maximum Length	9
☐ Initial Value	Yes
Copy Value from Item	
Synchronize with Item	<null></null>

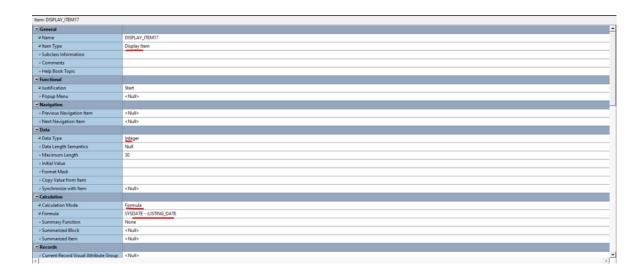
☑ Item Type	Display Item
∘ Subclass Information	
Comments	
∘ Help Book Topic	
Functional	
□ Justification	Start
Popup Menu	<null></null>
Navigation	
Previous Navigation Item	<null></null>
Next Navigation Item	<null></null>
Data	
□ Data Type	Number
Data Length Semantics	Null
Maximum Length	30
∘ Initial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











The source file of canvas .fmb:

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/ImmRXL61HuiyOcFQ7Thhg06itLvLfo-LE?usp=sharing

You can navigate our project through our website here:

https://dinasolitah.github.io/Property-Finder---DBMS-PROJECT/