IST 659
Sumegha Arora
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Syracuse Housing Database

IST 659 Final Report

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Contents

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PROJECT SUMMARY

In order to buy, rent or sell the property, customers have to rely on the property dealers for getting them the best prices or visit different websites, which in turn affects their decisions. However, all these do not provide them on the spot comparison or user reviews. Even student face a hard time while finding apartments if they are coming to a new country or city for studies. The proposed Information system would be a database, where the customers will be able to view property. The suggested database will include information about houses, localities, landlords, user reviews and comparison of various property retail websites. Since everything is online these days, it will turn out to be an easy option for the customers as it will save time and money. This would give the customer all the potential houses along with the prices offered by different websites and amenities present in the apartment. The target audience would be people who are potential buyers and leasers, viewing property for future transactions.

BUSINESS RULES

- All the property retail websites are limited to Syracuse.
- The value of the property is in terms of dollars.
- Every property must have only one landlord.
- A landlord can own zero or multiple properties.
- Every property retail website has at least one property to display.

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ENTITY AND ATTRIBUTE TABLE

1) Users – Different type of users like students and buyers who view the property

Entity Name: Users	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	UserId	INT	NOT NULL	Unique identifier for Users Entity
Other Attributes	FName	Varchar (255)	NOT NULL	First Name of the User
	LName	Varchar (255)	NOT NULL	Last Name of the User
	City	Varchar (255)	NOT NULL	Name of the City
	Country	Varchar (255)	NOT NULL	Name of the Country
	DOB	Date	Optional	Date of Birth of the User
	Gender	Varchar (255)	NOT NULL	Gender of the User
	Email	Varchar (255)	NOT NULL	Email ID of the User
	Contact	Varchar (255)	NOT NULL	Contact number of the User
	MinBudget	INT	Optional	Minimum Budget of the User in dollars
	MaxBudget	INT	Optional	Maximum Budget of the User in dollars
	UserType	Varchar (2)	NOT NULL	Type of the User(B- Buyer, S- Student)

2) Student – Students who view the property for leasing in the future

Entity Name: Student	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY and FOREIGN KEY	UserId	INT	NOT NULL	Primary key and Foreign key for the Student table to establish a supertype subtype relationship between Users and Student
Other Attributes	Age	INT	NOT NULL	Age of the Student
	University Name	Varchar (255)	NOT NULL	Name of the students University

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3) Buyer – Students who view the property for leasing in the future

Entity Name: Buyer	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY and FOREIGN KEY	UserId	INT	NOT NULL	Primary key and Foreign key for the Buyer table to establish a supertype subtype relationship between Users and Buyer
Other Attributes	Age	INT	NOT NULL	Age of the Student
	University Name	Varchar (255)	NOT NULL	Name of the students University

4) Landlord – People who own the property(Owner/Landlord)

Entity Name: Landlord	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	LandlordId	INT	NOT NULL	Unique identifier for Landlord Entity
Other Attributes	FName	Varchar (255)	NOT NULL	First Name of the Landlord
	LName	Varchar (255)	NOT NULL	Last Name of the Landlord
	Email	Varchar (255)	NOT NULL	Email ID of the Landlord
	Contact	Varchar (255)	NOT NULL	Contact number of the Landlord

5) Property – Types of property and its description (Rental or Property for Sale)

Entity Name: Property	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	PropertyId	INT	NOT NULL	Unique identifier for Property Entity
Other Attributes	PlotNumber	INT	NOT NULL	Apartment or House number
	FloorNumber	INT	Optional	Floor number(1 or 2)

	StreetName	Varchar (255)	NOT NULL	Name of the street where the property is located
	Zip	INT	NOT NULL	Zip code the area
	TotalArea	INT	Optional	Total Area of the property
	PropertyBuiltDate	Date	Optional	Date when the property was built
	PropertyType	Varchar (2)	NOT NULL	Type of the property(Rental ~R Property or Property for Sale ~ S)
	LandlordId	INT	NOT NULL	Foreign key for the Property table to establish a relationship between property and landlord

6) Rental Property – Details regarding the Rental Property and lease of the property

Entity Name: RentalProperty	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	PropertyId	INT	NOT NULL	Primary key and Foreign key for the RentalProperty table to establish a supertype subtype relationship between Property and RentalProperty
Other Attributes	LeaseStartDate	Date	NOT NULL	Start Date of the lease
	LeaseEndDate	Date	NOT NULL	End Date of the lease
	LeaseTerm	INT	NOT NULL	Term of the lease (6 months or 12 months)
	MonthlyRent	INT	NOT NULL	Monthly Rent of the apartment
	Security Deposit	INT	NOT NULL	Amount of the Security Deposit

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7) PropertyForSale – Details regarding the Rental Property and lease of the property

Entity Name: PropertyForSale	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	PropertyId	INT	NOT NULL	Primary key and Foreign key for the PropertyForSale table to establish a supertype subtype relationship between Property and PropertyForSale
Other Attributes	Price	INT	NOT NULL	Price of the property offered by the landlord in dollars
	Negotiable	Varchar (4)	Optional	Is the price negotiable (Y or N)

8) Feature – Details about various features of the property

Entity Name: Feature	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	FeatureId	INT	NOT NULL	Primary key for the Feature table
Other Attributes	FeatureName	Varchar (255)	NOT NULL	Name of the feature
	Value	INT	Optional	Value of a particular feature (ex. Parking-2, Heating–1)
FOREIGN KEY	PropertyId	INT	NOT NULL	Foreign key for the Feature table to establish a relationship between property and feature

9) FeatureDesc – Detailed Description about the Feature name

Entity Name: FeatureDesc	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	FeatureDescId	INT	NOT NULL	Primary key for the FeatureDesc table

Other Attributes	FeatureName	Varchar (255)	Optional	Name of the feature
	Description	Varchar (255)	Optional	For example: Description about the Parking feature

10) RetailWebsite – Details regarding different Websites

Entity Name: Retail Website	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	WebsiteId	INT	NOT NULL	Primary key for the RetailWebsite table
Other Attributes	WebsiteName	Varchar (255)	UNIQUE	Name of the Website
	Contact	Varchar (255)	Optional	Contact number of the website

11) Display – Associative entity between RetailWebsite and Property to show the details about the property on a particular website

Entity Name: Display	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	DisplayId	INT	NOT NULL	Primary key for the Display table
Other Attributes	DisplayDate	Date	Optional	Date when the property was displayed
	Availability	Varchar (4)	Optional	Depicting whether the property is available or not (Y or N)
	Price	INT	Optional	Price of the property on a particular website
	Rent	INT	Optional	Rent of the property on a particular website
FOREIGN KEY	PropertyId	INT	NOT NULL	Foreign key for the Display table to establish a relationship between property and display
	WebsiteId	INT	NOT NULL	Foreign key for the Display table to

				establish a relationship between RetailWebsite and feature

12) Review – Details regarding the review of the property

Entity Name: Review	Attribute Name	Field Type	Optional/NOT NULL	Explanation
PRIMARY KEY	ReviewId	INT	NOT NULL	Primary key for the Review table
Other Attributes	Rating	Decimal (5,2)	Optional	Rating for a property (1 to 5)
	Comments	Varchar (255)	Optional	Comments about a property (For ex. Good Location)
FOREIGN KEY	PropertyId	INT	NOT NULL	Foreign key for the Review table to establish a relationship between property and review
	WebsiteId	INT	NOT NULL	Foreign key for the Review table to establish a relationship between RetailWebsite and review

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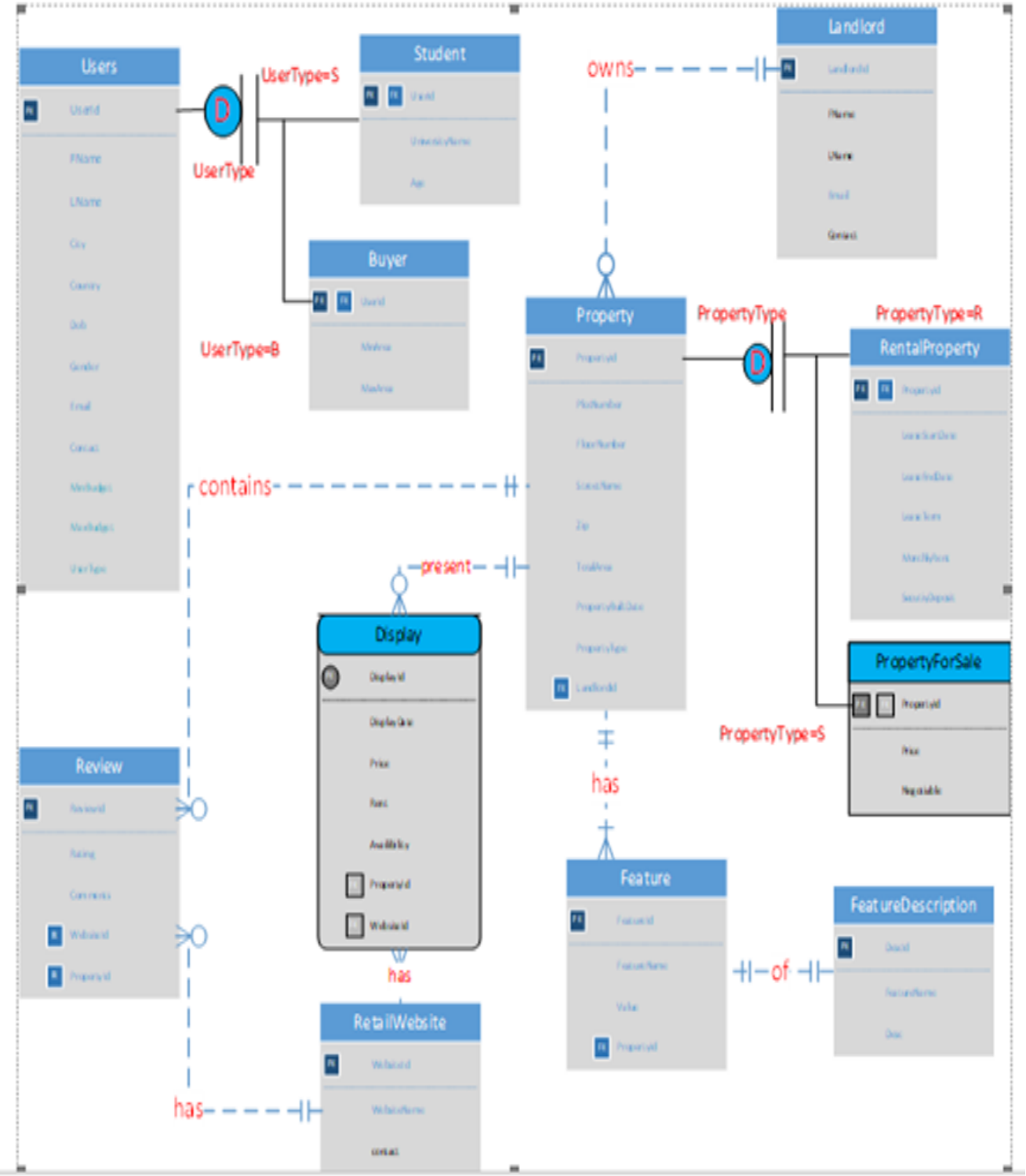
ENTITY-RELATIONSHIP DIAGRAM



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DATABASE INFRASTRUCTURE

The database system infrastructure used is based on a client-server model. SQL Server is used as the database engine and Access is used as the interface design tool. Data is inserted, deleted, updated, and queried from the SQL Server database with the help of forms on Access. Useful data stored on the SQL Server database can also be viewed with the help of reports generated through Access.

CREATION OF TABLES

```
CREATE TABLE Users
(
        UserID int NOT NULL PRIMARY KEY,
        Fname varchar (255) NOT NULL,
        LName varchar (255) NOT NULL,
        City varchar (255) NOT NULL,
        Country varchar (255) NOT NULL,
        DOB date,
        Gender varchar (255) NOT NULL,
        Email varchar (255) NOT NULL,
        Contact varchar(255) NOT NULL,
        MinBudget int,
        MaxBudget int,
        UserType varchar(2) NOT NULL
);
```

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```
CREATE TABLE Users
(
    UserID int NOT NULL PRIMARY KEY,
    Fname varchar(255) NOT NULL,
    LName varchar(255) NOT NULL,
    City varchar(255) NOT NULL,
    Country varchar(255) NOT NULL,
    DOB date,
    Gender varchar(255) NOT NULL,
    Email varchar(255) NOT NULL,
    Contact varchar(255) NOT NULL,
    MinBudget int,
    MaxBudget int,
    UserType varchar(2) NOT NULL
);
```

```
100 %
Messages
Command(s) completed successfully.
```

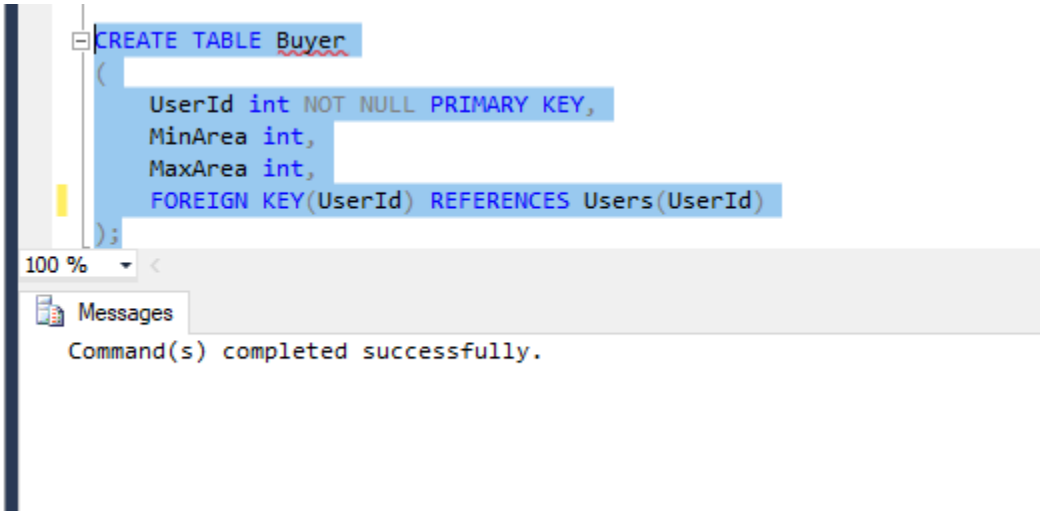
```
CREATE TABLE STUDENT
(
        UserId int NOT NULL PRIMARY KEY,
        UniversityName varchar(255) NOT NULL,
        Age int NOT NULL,
        FOREIGN KEY(UserId) REFERENCES Users(UserId)
);
```

```
CREATE TABLE STUDENT
(
    UserId int NOT NULL PRIMARY KEY,
    UniversityName varchar(255) NOT NULL,
    Age int NOT NULL,
    FOREIGN KEY(UserId) REFERENCES Users(UserId)
);
```

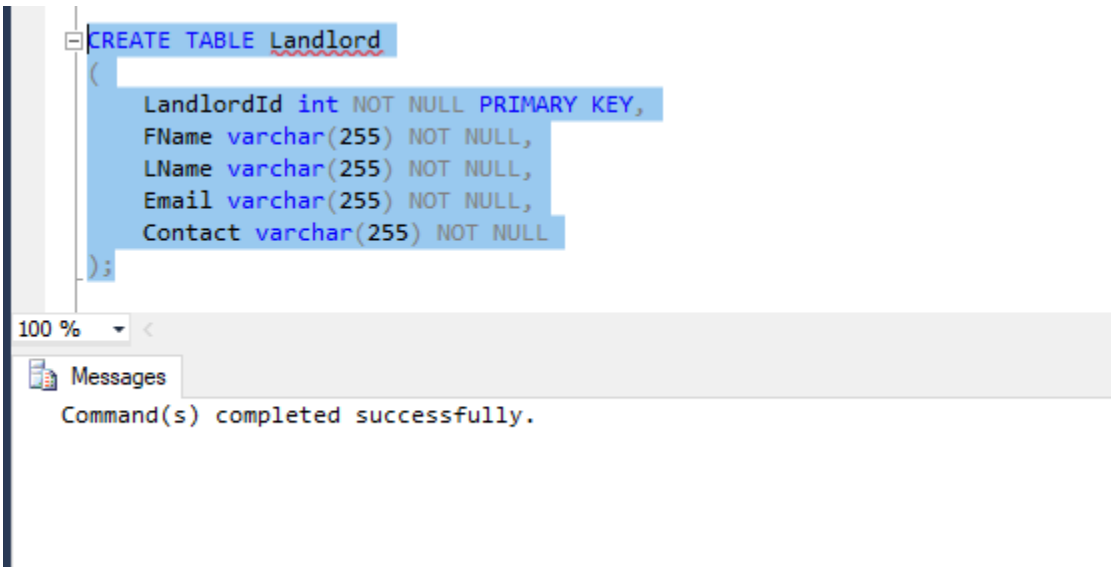
```
100 %
Messages
Command(s) completed successfully.
```

```
CREATE TABLE Buyer
(
        UserId int NOT NULL PRIMARY KEY,
```

```
        MinArea int,
        MaxArea int,
        FOREIGN KEY(UserId) REFERENCES Users(UserId)
);
```




```
CREATE TABLE Landlord
(
        LandlordId int NOT NULL PRIMARY KEY,
        FName varchar(255) NOT NULL,
        LName varchar(255) NOT NULL,
        Email varchar(255) NOT NULL,
        Contact varchar(255) NOT NULL
);
```



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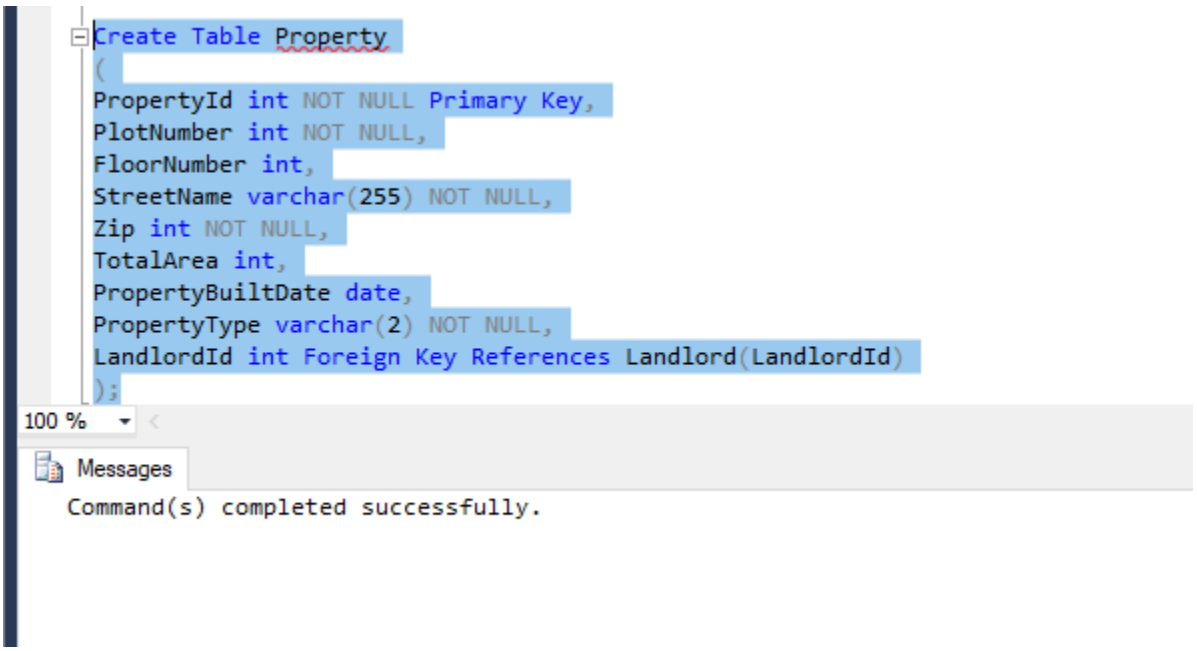
```
Create Table Property
(
PropertyId int NOT NULL Primary Key,
PlotNumber int NOT NULL,
FloorNumber int,
StreetName varchar(255) NOT NULL,
Zip int NOT NULL,
TotalArea int,
PropertyBuiltDate date,
PropertyType varchar(2) NOT NULL,
LandlordId int Foreign Key References Landlord(LandlordId)
);
```




```
Create Table RentalProperty
(
PropertyId int NOT NULL Primary key,
LeaseStartDate date NOT NULL,
LeaseEndDate date NOT NULL,
LeaseTerm int NOT NULL,
MonthlyRent int NOT NULL,
SecurityDeposit int NOT NULL,
FOREIGN KEY(PropertyId) REFERENCES Property(PropertyId)
);
```

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```
Create Table RentalProperty
(
PropertyId int NOT NULL Primary key,
LeaseStartDate date NOT NULL,
LeaseEndDate date NOT NULL,
LeaseTerm int NOT NULL,
MonthlyRent int NOT NULL,
SecurityDeposit int NOT NULL,
FOREIGN KEY(PropertyId) REFERENCES Property(PropertyId)
);
```

100 %

Messages

```
Command(s) completed successfully.
```

```
Create Table PropertyForSale
(
PropertyId int NOT NULL Primary key,
Price int NOT NULL,
Negotiable varchar(4),
FOREIGN KEY(PropertyId) REFERENCES Property(PropertyId)
);
```

```
Create Table PropertyForSale
(
PropertyId int NOT NULL Primary key,
Price int NOT NULL,
Negotiable varchar(4),
FOREIGN KEY(PropertyId) REFERENCES Property(PropertyId)
);

Create Table Feature
```

100 %

Messages

```
Command(s) completed successfully.
```

```
Create Table Feature
(
FeatureId int NOT NULL Primary Key,
FeatureName varchar(255),
Value int,
PropertyId int Foreign Key References Property(PropertyId)
);
```

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```
Create Table Feature
(
FeatureId int NOT NULL Primary Key,
FeatureName varchar(255),
Value int,
PropertyId int Foreign Key References Property(PropertyId)
);
```

100 %

Messages

```
Command(s) completed successfully.
```

```
Create Table FeatureDescription
(
FeatureDescId int NOT NULL Primary key,
FeatureName varchar(255),
Description varchar(255)
);
```

```
Create Table FeatureDescription
(
FeatureDescId int NOT NULL Primary key,
FeatureName varchar(255),
Description varchar(255)
);
```

100 %

Messages

```
Command(s) completed successfully.
```

```
Create Table RetailWebsite
(
WebsiteId int NOT NULL Primary Key,
WebsiteName varchar(255) UNIQUE,
Contact varchar(255)
);
```

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```
Create Table RetailWebsite
(
WebsiteId int NOT NULL Primary Key,
WebsiteName varchar(255) UNIQUE,
Contact varchar(255)
);
```

```
100 %
Messages
Command(s) completed successfully.
```

```
Create Table Display
(
DisplayId int NOT NULL Primary Key,
DisplayDate date,
Availibility varchar(4),
Price int,
Rent int,
PropertyId int Foreign Key References Property(PropertyId),
WebsiteId int Foreign Key References RetailWebsite(WebsiteId)
);
```

```
Create Table Display
(
DisplayId int NOT NULL Primary Key,
DisplayDate date,
Availibility varchar(4),
Price int,
Rent int,
PropertyId int Foreign Key References Property(PropertyId),
WebsiteId int Foreign Key References RetailWebsite(WebsiteId)
);
```

```
100 %
Messages
Command(s) completed successfully.
```

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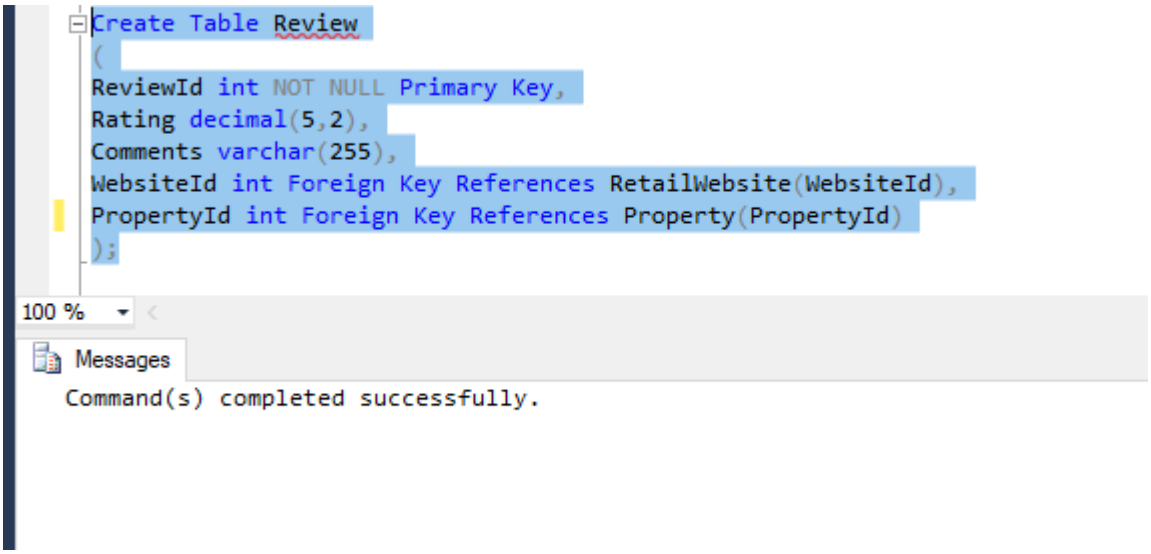
```
Create Table Review
(
ReviewId int NOT NULL Primary Key,
Rating decimal(5,2),
Comments varchar(255),
WebsiteId int Foreign Key References RetailWebsite(WebsiteId),
PropertyId int Foreign Key References Property(PropertyId)
);
```




```
----------Inserting the data----------

-------RetailWebsite----------
Insert into RetailWebsite
Values(1,'Orange Housing','315-545-4675');

Insert into RetailWebsite
Values(2,'Zillow','315-856-3376');

Insert into RetailWebsite
Values(3,'Syracuse Quality Living','315-346-6112');

Select * from RetailWebsite;
```

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```
Select * from RetailWebsite;

Select * from Landlord;
```

100 %

Results | Messages

	WebsiteId	WebsiteName	Contact
1	1	Orange Housing	315-545-4675
2	2	Zillow	315-856-3376
3	3	Syracuse Quality Living	315-346-6112

```
-----Inserting data in Landlord Table----------
Insert into Landlord
Values(1,'Becky','Xin','bxin@gmail.com','315-378-6733');

Insert into Landlord
Values(2,'Dave','Hornstein','dahornstein@gmail.com','315-436-4733');

Insert into Landlord
Values(3,'Joan','Grant','jgrant@gmail.com','315-413-4949');

Insert into Landlord
Values(4,'Brad','Stalter','bradStal@gmail.com','315-565-7689');

Insert into Landlord
Values(5,'Stacy','Romano','stromano@gmail.com','315-634-2778');

Insert into Landlord
Values(6,'Azan','Hosein','ahosein@gmail.com','315-776-4487');

Insert into Landlord
Values(7,'Robert','Frank','rfrank@gmail.com','315-386-4629');

Insert into Landlord
Values(8,'Sean','Corcoran','scorcor@gmail.com','315-721-6733');

Insert into Landlord
Values(9,'Ryan','Mone','rmone@gmail.com','315-267-2418');

Insert into Landlord
Values(10,'Erica','Ramos','eramos@gmail.com','315-298-9933');

Select * from Landlord;
```

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```
Select * from Landlord;
```

100 %

Results | Messages

	LandlordId	FName	LName	Email	Contact
1	1	Becky	Xin	bxin@gmail.com	315-378-6733
2	2	Dave	Hornstein	dahornstein@gmail.com	315-436-4733
3	3	Joan	Grant	jgrant@gmail.com	315-413-4949
4	4	Brad	Stalter	bradStal@gmail.com	315-565-7689
5	5	Stacy	Romano	stromano@gmail.com	315-634-2778
6	6	Azan	Hosein	ahosein@gmail.com	315-776-4487
7	7	Robert	Frank	rfrank@gmail.com	315-386-4629
8	8	Sean	Corcoran	scorcor@gmail.com	315-721-6733
9	9	Ryan	Mone	rmone@gmail.com	315-267-2418
10	10	Erica	Ramos	eramos@gmail.com	315-298-9933

```
------Inserting data in Property table----------
Insert into Property
Values(1,710,1,'South Beech',13210,1000,'1910','R',1)

Insert into Property
Values(2,716,1,'South Beech',13210,1500,'1903','R',2)

Insert into Property
Values(3,514,2,'Clarendon',13210,1250,'1990','R',3)

Insert into Property
Values(4,1021,2,'Lancaster',13210,1050,'1965','R',4)

Insert into Property
Values(5,440,2,'Westcott',13210,1300,'1948','R',5)

Insert into Property
Values(6,543,1,'Columbus',13210,800,'1969','R',6)

Insert into Property
Values(7,555,1,'Columbus',13210,750,'1985','R',7)

Insert into Property
Values(8,620,2,'Westcott',13210,1200,'1936','R',8)

Insert into Property
Values(9,1110,1,'Lexington',13210,1400,'1974','R',9)
```

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```
Insert into Property
Values(10,258,2,'Ackerman',13210,900,'2000','R',10)

Insert into Property
Values(11,700,1,'Westcott',13210,1570,'1910','S',1)

Insert into Property
Values(12,111,3,'Westcott',13210,1070,'1980','S',2)

Insert into Property
Values(13,490,2,'Clarendon',13210,800,'2005-05-04','S',3)

Insert into Property
Values(14,1090,2,'Lancaster',13210,500,'2007-05-04','S',4)

Insert into Property
Values(15,220,1,'Westcott',13210,2000,'1880-05-04','S',5)

Insert into Property
Values(16,320,1,'Westcott',13210,2050,'1890-05-04','S',6)

Insert into Property
Values(17,420,1,'Westcott',13210,1150,'1990-05-04','S',7)

Insert into Property
Values(18,490,3,'Westcott',13210,1750,'1992-05-04','S',8)

Insert into Property
Values(19,900,2,'Westcott',13210,1700,'1995-05-04','S',9)

Insert into Property
Values(20,970,2,'Westcott',13210,1480,'1998-05-04','S',10)

Insert into Property
Values(21,870,2,'Westcott',13210,1080,'1998-05-04','R',1)

Insert into Property
Values(22,333,3,'Westcott',13210,1880,'1999-04-04','R',2)

Insert into Property
Values(23,343,3,'Ackerman',13210,2280,'2000-04-04','R',2)

Insert into Property
Values(24,943,2,'Basset',13210,1080,'2001-04-04','R',3)

Insert into Property
Values(25,43,2,'Basset',13210,1080,'2003-06-04','R',4)

Insert into Property
Values(26,123,2,'Westcott',13210,3080,'2003-07-04','S',5)

Insert into Property
Values(27,3,2,'Westcott',13210,1600,'2000-06-08','S',6)
```

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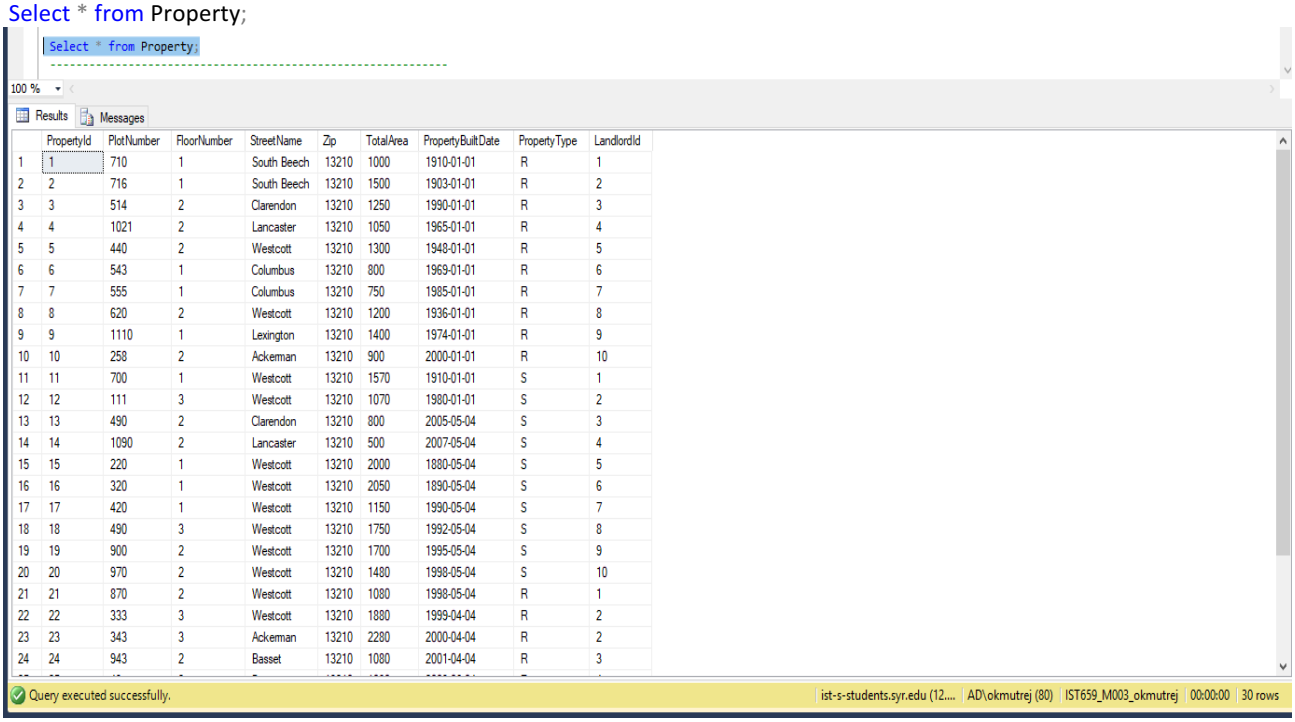
```
Insert into Property
Values(28,738,2,'Basset',13210,2040,'1993-06-04','S',7)

Insert into Property
Values(29,803,2,'Ackerman',13210,1000,'1801-06-04','S',8)

Insert into Property
Values(30,582,2,'Lexington',13210,1090,'1903-06-04','S',9)

Select * from Property;
```



Select * from Property;

100 %

Results | Messages

	PropertyId	PlotNumber	FloorNumber	StreetName	Zip	TotalArea	PropertyBuiltDate	PropertyType	LandlordId
1	1	710	1	South Beech	13210	1000	1910-01-01	R	1
2	2	716	1	South Beech	13210	1500	1903-01-01	R	2
3	3	514	2	Clarendon	13210	1250	1990-01-01	R	3
4	4	1021	2	Lancaster	13210	1050	1965-01-01	R	4
5	5	440	2	Westcott	13210	1300	1948-01-01	R	5
6	6	543	1	Columbus	13210	800	1969-01-01	R	6
7	7	555	1	Columbus	13210	750	1985-01-01	R	7
8	8	620	2	Westcott	13210	1200	1936-01-01	R	8
9	9	1110	1	Lexington	13210	1400	1974-01-01	R	9
10	10	258	2	Ackerman	13210	900	2000-01-01	R	10
11	11	700	1	Westcott	13210	1570	1910-01-01	S	1
12	12	111	3	Westcott	13210	1070	1980-01-01	S	2
13	13	490	2	Clarendon	13210	800	2005-05-04	S	3
14	14	1090	2	Lancaster	13210	500	2007-05-04	S	4
15	15	220	1	Westcott	13210	2000	1880-05-04	S	5
16	16	320	1	Westcott	13210	2050	1890-05-04	S	6
17	17	420	1	Westcott	13210	1150	1990-05-04	S	7
18	18	490	3	Westcott	13210	1750	1992-05-04	S	8
19	19	900	2	Westcott	13210	1700	1995-05-04	S	9
20	20	970	2	Westcott	13210	1480	1998-05-04	S	10
21	21	870	2	Westcott	13210	1080	1998-05-04	R	1
22	22	333	3	Westcott	13210	1880	1999-04-04	R	2
23	23	343	3	Ackerman	13210	2280	2000-04-04	R	2
24	24	943	2	Basset	13210	1080	2001-04-04	R	3

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\okmutrej (80) | IST659_M003_okmutrej | 00:00:00 | 30 rows

```
------Insert data in RentalProperty table----------
Insert into RentalProperty
Values(1,'08-01-2018','08-01-2019',12,385,1200)

Insert into RentalProperty
Values(2,'08-05-2018','08-05-2019',12,400,1500)

Insert into RentalProperty
Values(3,'07-31-2018','07-31-2019',12,440,2000)

Insert into RentalProperty
Values(4,'08-02-2018','01-31-2019',6,350,1000)

Insert into RentalProperty
Values(5,'08-04-2018','01-31-2019',6,450,2000)

Insert into RentalProperty
Values(6,'08-01-2018','08-01-2019',12,325,900)
```

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```
Insert into RentalProperty
Values(7,'08-10-2018','08-10-2019',12,350,1000)

Insert into RentalProperty
Values(8,'07-25-2018','07-25-2019',12,500,2500)

Insert into RentalProperty
Values(9,'07-27-2018','07-27-2019',12,475,2250)

Insert into RentalProperty
Values(10,'07-01-2018','12-31-2019',6,430,1800)

Insert into RentalProperty
Values(21,'01-01-2018','06-30-2018',6,440,2000)

Insert into RentalProperty
Values(22,'07-05-2018','07-04-2019',12,490,800)

Insert into RentalProperty
Values(23,'09-06-2018','03-05-2019',6,520,1500)

Insert into RentalProperty
Values(24,'02-01-2018','01-31-2019',12,380,2000)

Insert into RentalProperty
Values(25,'10-11-2018','04-10-2019',6,600,1800)


Select * from RentalProperty;
```

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```
Select * from RentalProperty;
```

100 %

Results | Messages

	PropertyId	LeaseStartDate	LeaseEndDate	LeaseTerm	MonthlyRent	SecurityDeposit
1	1	2018-08-01	2019-08-01	12	385	1200
2	2	2018-08-05	2019-08-05	12	400	1500
3	3	2018-07-31	2019-07-31	12	440	2000
4	4	2018-08-02	2019-01-31	6	350	1000
5	5	2018-08-04	2019-01-31	6	450	2000
6	6	2018-08-01	2019-08-01	12	325	900
7	7	2018-08-10	2019-08-10	12	350	1000
8	8	2018-07-25	2019-07-25	12	500	2500
9	9	2018-07-27	2019-07-27	12	475	2250
10	10	2018-07-01	2019-12-31	6	430	1800
11	21	2018-01-01	2018-06-30	6	440	2000
12	22	2018-07-05	2019-07-04	12	490	800
13	23	2018-09-06	2019-03-05	6	520	1500
14	24	2018-02-01	2019-01-31	12	380	2000
15	25	2018-10-11	2019-04-10	6	600	1800

----------Inserting data in PropertyForSale table----------

```
Insert into PropertyForSale
Values(11,80000,'Y')

Insert into PropertyForSale
Values(12,90000,'Y')

Insert into PropertyForSale
Values(13,75000,'N')

Insert into PropertyForSale
Values(14,85000,'Y')

Insert into PropertyForSale
Values(15,65000,'N')

Insert into PropertyForSale
Values(16,95000,'Y')

Insert into PropertyForSale
Values(17,100000,'Y')

Insert into PropertyForSale
Values(18,85000,'Y')

Insert into PropertyForSale
```

```
Values(19,60000,'N')

Insert into PropertyForSale
Values(20,65000,'N')

Insert into PropertyForSale
Values(26,58000,'N')

Insert into PropertyForSale
Values(27,75000,'N')

Insert into PropertyForSale
Values(28,88000,'Y')

Insert into PropertyForSale
Values(29,105000,'Y')

Insert into PropertyForSale
Values(30,92000,'Y')

Select * from PropertyForSale;
```

```
Select * from PropertyForSale;
```

100 %

Results | Messages

	PropertyId	Price	Negotiable
1	11	80000	Y
2	12	90000	Y
3	13	75000	N
4	14	85000	Y
5	15	65000	N
6	16	95000	Y
7	17	100000	Y
8	18	85000	Y
9	19	60000	N
10	20	65000	N
11	26	58000	N
12	27	75000	N
13	28	88000	Y
14	29	105000	Y
15	30	92000	Y

```
------Inserting data in Users table----------
Insert into Users
Values(1,'Omkar','Mutreja','Syracuse','USA','11-02-1993','Male','okmutrej@syr.edu','315-  440-2418',300,500,'S')
```

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```
Insert into Users
Values(2,'Sumegha','Arora','Syracuse','USA','06-21- 1992','Female','suarora@syr.edu','315-440-5567',300,550,'S')

Insert into Users
Values(3,'Rohan','Kunwer','Syracuse','USA','01-18-1993','Male','rkunwer@syr.edu','315- 440-3367',350,525,'S')

Insert into Users
Values(4,'Ankita','Nagar','Syracuse','USA','10-29-1993','Female','anagar@syr.edu','315- 476-3898',200,500,'S')

Insert into Users
Values(5,'Vamsee','Metlapalli','Syracuse','USA','06-05-1991','Male','vmetlpalli@syr.edu','315-657-9485',200,400,'S')

Insert into Users
Values(6,'Shreya','Chowdhary','Syracuse','USA','10-18-1993','Female','schowdhary@gmail.com','315-454-
6634',200,500,'S')

Insert into Users
Values(7,'Savni','Ankalikar','Syracuse','USA','02-15-1993','Female','sankaikar@gmail.com','667-445-9485',200,600,'S')

Insert into Users
Values(8,'Kirti','Hassani','Syracuse','USA','03-25-1996','Female','khassani@syr.edu','315-223-5488',250,550,'S')

Insert into Users
Values(9,'Ritesh','Dhakkad','Syracuse','USA','08-14-1993','Male','rdhakkad@syr.edu','315-445-3667',300,520,'S')

Insert into Users
Values(10,'Ananya','Bhupathli','Syracuse','USA','04-17-1993','Female','abhupathali@syr.edu','315-221-4533',300,600,'S')

Insert into Users
Values(11,'Chris','Adams','Boston','USA','09-27-1983','Male','chadams@gmail.com','617-221-3533',70000,90000,'B')

Insert into Users
Values(12,'Loki','Ferguson','Boston','USA','04-27-1985','Male','lferguson@gmail.com','617-556-7634',65000,85000,'B')

Insert into Users
Values(13,'Jazz','Kerry','Texas','USA','04-17-1993','Female','jazzkerry@gmail.com','915-554-4533',75000,90000,'B')

Insert into Users
Values(14,'Luiana','Williams','Maryland','USA','07-07-1979','Female','lwilliams@gmail.com','667-445-
6745',75000,100000,'B')

Insert into Users
Values(15,'Josua','Patterson','Syracuse','USA','02-13-1986','Male','jpatterson@gmail.com','315-445-
4699',60000,75000,'B')

Insert into Users
Values(16,'Jack','Samuel','California','USA','01-13-1984','Male','jacks@gmail.com','315-444-7679',60000,85000,'B')

Insert into Users
Values(17,'Annie','Hattway','New York','USA','10-12-1969','Female','ann@gmail.com','315-544-7779',90000,105000,'B')

Insert into Users
```

```
Values(18,'Harley','Davidson','Colorado','USA','06-21-1959','Female','harldavid@gmail.com','315-484-1979',80000,95000,'B')

Insert into Users
Values(19,'Jennifer','Aniston','Denver','USA','11-02-1967','Female','jena@gmail.com','315-443-0009',60000,70000,'B')

Insert into Users
Values(20,'Sean','Sam','Pittsburgh','USA','06-15-1984','Male','sean@gmail.com','315-242-7119',70000,125000,'B')

Select * from Users;
```

```
Select * from Users;
```

100 %

Results | Messages

	UserID	Fname	LName	City	Country	DOB	Gender	Email	Contact	MinBudget	MaxBudget	UserType
1	1	Omkar	Mutreja	Syracuse	USA	1993-11-02	Male	okmutrej@syr.edu	315-440-2418	300	500	S
2	2	Sumegha	Arora	Syracuse	USA	1992-06-21	Female	suarora@syr.edu	315-440-5567	300	550	S
3	3	Rohan	Kunwer	Syracuse	USA	1993-01-18	Male	rkunwer@syr.edu	315-440-3367	350	525	S
4	4	Ankita	Nagar	Syracuse	USA	1993-10-29	Female	anagar@syr.edu	315-476-3898	200	500	S
5	5	Vamsee	Metlapalli	Syracuse	USA	1991-06-05	Male	vmetlpalli@syr.edu	315-657-9485	200	400	S
6	6	Shreya	Chowdhary	Syracuse	USA	1993-10-18	Female	schowdhary@gmail.com	315-454-6634	200	500	S
7	7	Savni	Ankalikar	Syracuse	USA	1993-02-15	Female	sankaikar@gmail.com	667-445-9485	200	600	S
8	8	Kirti	Hassani	Syracuse	USA	1996-03-25	Female	khassani@syr.edu	315-223-5488	250	550	S
9	9	Ritesh	Dhakkad	Syracuse	USA	1993-08-14	Male	rdhakkad@syr.edu	315-445-3667	300	520	S
10	10	Ananya	Bhupathli	Syracuse	USA	1993-04-17	Female	abhupathali@syr.edu	315-221-4533	300	600	S
11	11	Chris	Adams	Boston	USA	1983-09-27	Male	chadams@gmail.com	617-221-3533	70000	90000	B
12	12	Loki	Ferguson	Boston	USA	1985-04-27	Male	lferguson@gmail.com	617-556-7634	65000	85000	B
13	13	Jazz	Kerry	Texas	USA	1993-04-17	Female	jazzkerry@gmail.com	915-554-4533	75000	90000	B
14	14	Luiana	Williams	Maryland	USA	1979-07-07	Female	lwilliams@gmail.com	667-445-6745	75000	100000	B
15	15	Josua	Patterson	Syracuse	USA	1986-02-13	Male	jpatterson@gmail.com	315-445-4699	60000	75000	B
16	16	Jack	Samuel	California	USA	1984-01-13	Male	jacks@gmail.com	315-444-7679	60000	85000	B
17	17	Annie	Hattway	New Y...	USA	1969-10-12	Female	ann@gmail.com	315-544-7779	90000	105000	B
18	18	Harley	Davidson	Colorado	USA	1959-06-21	Female	harldavid@gmail.com	315-484-1979	80000	95000	B
19	19	Jennifer	Aniston	Denver	USA	1967-11-02	Female	jena@gmail.com	315-443-0009	60000	70000	B
20	20	Sean	Sam	Pittsbur...	USA	1984-06-15	Male	sean@gmail.com	315-242-7119	70000	125000	B

```
------Insert data in Student table----------
Insert into STUDENT
Values(1,'Syracuse University',24)

Insert into STUDENT
Values(2,'Syracuse University',25)

Insert into STUDENT
Values(3,'Syracuse University',24)

Insert into STUDENT
Values(4,'Syracuse University',24)

Insert into STUDENT
Values(5,'Syracuse University',26)

Insert into STUDENT
Values(6,'Syracuse University',23)
```

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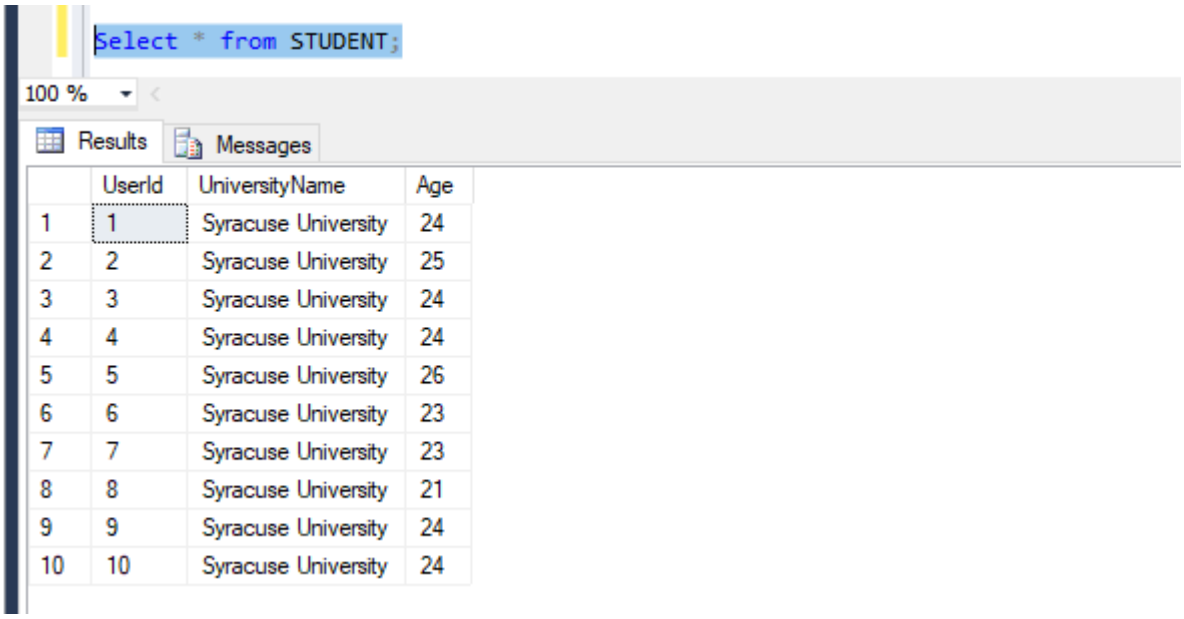
```
Insert into STUDENT
Values(7,'Syracuse University',23)

Insert into STUDENT
Values(8,'Syracuse University',21)

Insert into STUDENT
Values(9,'Syracuse University',24)

Insert into STUDENT
Values(10,'Syracuse University',24)

Select * from STUDENT;
```



	UserId	UniversityName	Age
1	1	Syracuse University	24
2	2	Syracuse University	25
3	3	Syracuse University	24
4	4	Syracuse University	24
5	5	Syracuse University	26
6	6	Syracuse University	23
7	7	Syracuse University	23
8	8	Syracuse University	21
9	9	Syracuse University	24
10	10	Syracuse University	24

```
----------Insert in Buyer table----------
Insert into Buyer
Values(11,'1050','2500')

Insert into Buyer
Values(12,'1500','3000')

Insert into Buyer
Values(13,'2000','3500')

Insert into Buyer
Values(14,'3000','3500')

Insert into Buyer
Values(15,'2000' ,'3000' )
```

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```
Insert into Buyer
Values(16,'1500','3750')

Insert into Buyer
Values(17, '2500','3500')

Insert into Buyer
Values(18, '1575','2575')

Insert into Buyer
Values(19,'2050','3500')

Insert into Buyer
Values(20,'2750','3575')

Select * from Buyer;
```

```
Select * from Buyer;
```

100 %

Results | Messages

	UserId	MinArea	MaxArea
1	11	1050	2500
2	12	1500	3000
3	13	2000	3500
4	14	3000	3500
5	15	2000	3000
6	16	1500	3750
7	17	2500	3500
8	18	1575	2575
9	19	2050	3500
10	20	2750	3575

```
-----Insert data in Feature table----------
Insert into Feature
Values(1,'Parking',2,12)

Insert into Feature
Values(2,'Parking',1,15)

Insert into Feature
Values(3,'Parking',1,13)

Insert into Feature
Values(4,'Parking',2,16)
```

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```
Insert into Feature
Values(5,'Parking',3,17)

Insert into Feature
Values(6,'Parking',2,18)

Insert into Feature
Values(7,'Parking',1,19)

Insert into Feature
Values(8,'Parking',1,28)

Insert into Feature
Values(9,'Parking',2,29)

Insert into Feature
Values(10,'Parking',3,30)

----------Inserting Heating Feature----------
Insert into Feature
Values
(11,'Heating',1,1),
(12,'Heating',1,2),
(13,'Heating',1,3),
(14,'Heating',1,4),
(15,'Heating',1,5),
(16,'Heating',1,6),
(17,'Heating',1,7),
(18,'Heating',1,8),
(19,'Heating',1,9),
(20,'Heating',1,10),
(21,'Heating',1,11),
(22,'Heating',1,12),
(23,'Heating',1,13),
(24,'Heating',1,14),
(25,'Heating',1,15),
(26,'Heating',1,16),
(27,'Heating',1,17),
(28,'Heating',1,18),
(29,'Heating',1,19),
(30,'Heating',1,20),
(31,'Heating',1,21),
(32,'Heating',1,22),
(33,'Heating',1,23),
(34,'Heating',1,24),
(35,'Heating',1,25),
(36,'Heating',1,26),
(37,'Heating',1,27),
(38,'Heating',1,28),
(39,'Heating',1,29),
(40,'Heating',1,30);

-------Inserting Laundry Feature----------
```

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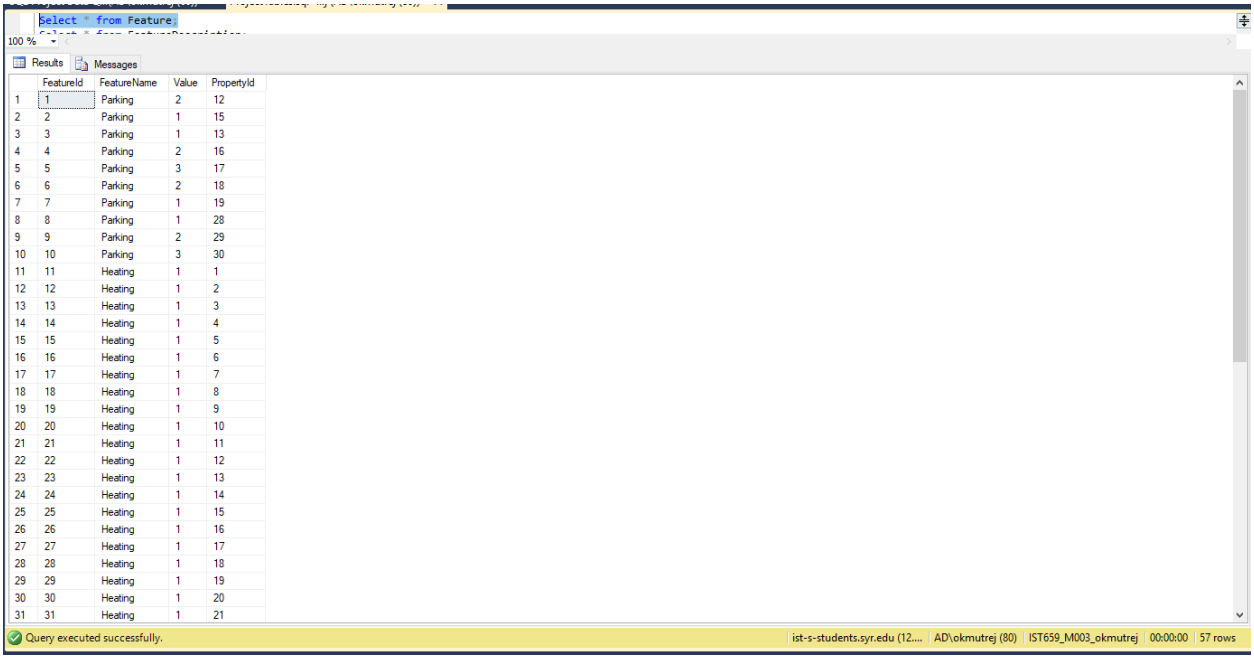
```
Insert into Feature
Values
(41,'Laundary',3,26),
(42,'Laundary',3,23),
(43,'Laundary',3,16),
(44,'Laundary',3,28),
(45,'Laundary',3,15),
(46,'Laundary',2,22),
(47,'Laundary',2,18),
(48,'Laundary',2,19),
(49,'Laundary',2,11),
(50,'Laundary',3,26),
(51,'Laundary',3,20),
(52,'Laundary',2,9),
(53,'Laundary',2,5),
(54,'Laundary',2,17),
(55,'Laundary',1,21),
(56,'Laundary',1,4),
(57,'Laundary',1,13);

Select * from Feature;
```



Results | Messages

	FeatureId	FeatureName	Value	PropertyId
1	1	Parking	2	12
2	2	Parking	1	15
3	3	Parking	1	13
4	4	Parking	2	16
5	5	Parking	3	17
6	6	Parking	2	18
7	7	Parking	1	19
8	8	Parking	1	28
9	9	Parking	2	29
10	10	Parking	3	30
11	11	Heating	1	1
12	12	Heating	1	2
13	13	Heating	1	3
14	14	Heating	1	4
15	15	Heating	1	5
16	16	Heating	1	6
17	17	Heating	1	7
18	18	Heating	1	8
19	19	Heating	1	9
20	20	Heating	1	10
21	21	Heating	1	11
22	22	Heating	1	12
23	23	Heating	1	13
24	24	Heating	1	14
25	25	Heating	1	15
26	26	Heating	1	16
27	27	Heating	1	17
28	28	Heating	1	18
29	29	Heating	1	19
30	30	Heating	1	20
31	31	Heating	1	21

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\okmutrej (80) | IST659_M003_okmutrej | 00:00:00 | 57 rows

```
----------Insert in FeatureDesc table----------
Insert into FeatureDescription
Values
(1,'Parking','Details about whether the apartment has space reserved for parking and if yes how many slots are available'),
(2,'Heating','Details about the Heating system and of the house and whether the heater is present in the house or not'),
(3,'Laundary','Details about the Laundry system of the house and the number of laundry units present in that particular house');
```

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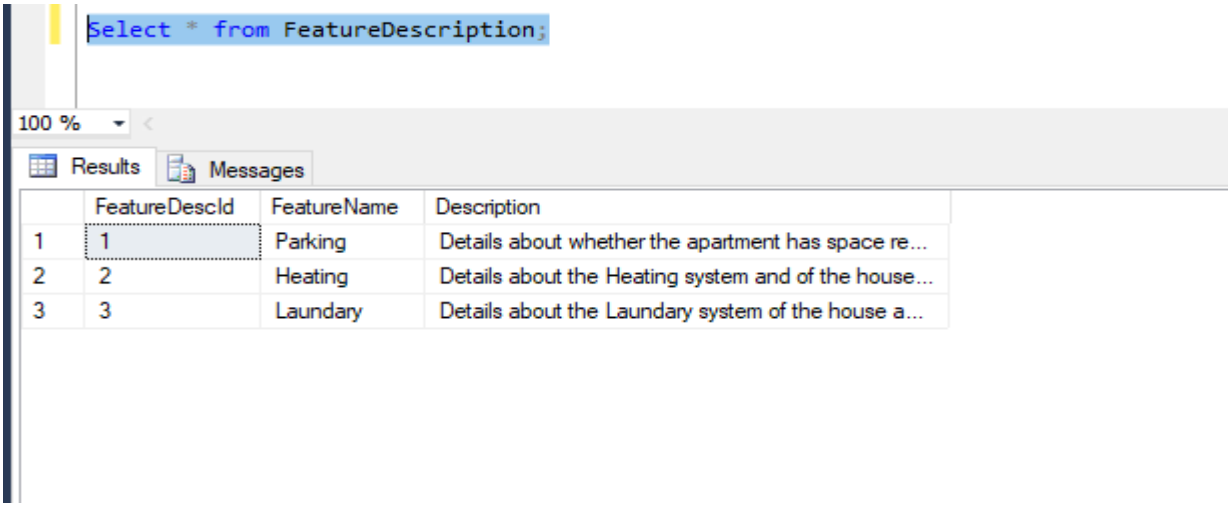
```
Select * from FeatureDescription;
```

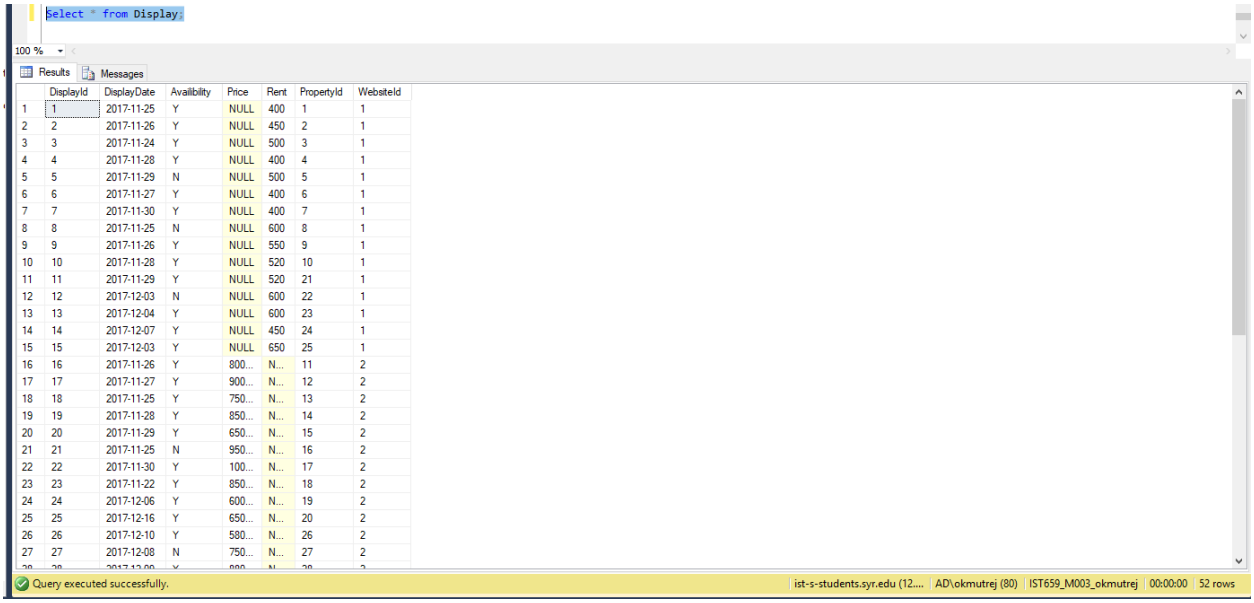


	FeatureDescId	FeatureName	Description
1	1	Parking	Details about whether the apartment has space re...
2	2	Heating	Details about the Heating system and of the house...
3	3	Laundary	Details about the Laundary system of the house a...

```
----------Inserting into Display----------
Insert into Display(DisplayId,DisplayDate,Availibility,Rent,PropertyId,WebsiteId)
Values
(1,'11-25-2017','Y',400,1,1),
(2,'11-26-2017','Y',450,2,1),
(3,'11-24-2017','Y',500,3,1),
(4,'11-28-2017','Y',400,4,1),
(5,'11-29-2017','N',500,5,1),
(6,'11-27-2017','Y',400,6,1),
(7,'11-30-2017','Y',400,7,1),
(8,'11-25-2017','N',600,8,1),
(9,'11-26-2017','Y',550,9,1),
(10,'11-28-2017','Y',520,10,1),
(11,'11-29-2017','Y',520,21,1),
(12,'12-03-2017','N',600,22,1),
(13,'12-04-2017','Y',600,23,1),
(14,'12-07-2017','Y',450,24,1),
(15,'12-03-2017','Y',650,25,1),
(16,'11-26-2017','Y',80000,11,2),
(17,'11-27-2017','Y',90000,12,2),
(18,'11-25-2017','Y',75000,13,2),
(19,'11-28-2017','Y',85000,14,2),
(20,'11-29-2017','Y',65000,15,2),
(21,'11-25-2017','N',95000,16,2),
(22,'11-30-2017','Y',100000,17,2),
(23,'11-22-2017','Y',85000,18,2),
(24,'12-06-2017','Y',60000,19,2),
(25,'12-16-2017','Y',65000,20,2),
(26,'12-10-2017','Y',58000,26,2),
(27,'12-08-2017','N',75000,27,2),
(28,'12-09-2017','Y',88000,28,2),
(29,'12-13-2017','Y',105000,29,2),
(30,'12-19-2017','Y',92000,30,2),
(31,'11-25-2017','Y',385,1,2),
(32,'11-29-2017','N',450,5,2),
```

```
(33,'11-27-2017','Y',325,6,2),
(34,'11-30-2017','Y',350,7,2),
(35,'11-25-2017','N',500,8,2),
(36,'11-26-2017','Y',475,9,2),
(37,'11-28-2017','Y',430,10,2),
(38,'11-29-2017','Y',440,21,2),
(39,'12-03-2017','N',490,22,2),
(40,'12-04-2017','Y',520,23,2),
(41,'12-03-2017','N',550,22,3),
(42,'12-04-2017','Y',575,23,3),
(43,'12-07-2017','Y',500,24,3),
(44,'12-03-2017','Y',675,25,3),
(45,'11-29-2017','Y',70000,15,3),
(46,'11-25-2017','N',97000,16,3),
(47,'11-30-2017','Y',105000,17,3),
(48,'11-22-2017','Y',89000,18,3),
(49,'12-06-2017','Y',70000,19,3),
(50,'12-16-2017','Y',68000,20,3),
(51,'12-10-2017','Y', 58000,26,3),
(52,'12-08-2017','N', 75000, 27,3)
```

```
Select * from Display;
```



Select * from Display;

100 %

Results | Messages

	DisplayId	DisplayDate	Availibility	Price	Rent	PropertyId	WebsiteId
1	1	2017-11-25	Y	NULL	400	1	1
2	2	2017-11-26	Y	NULL	450	2	1
3	3	2017-11-24	Y	NULL	500	3	1
4	4	2017-11-28	Y	NULL	400	4	1
5	5	2017-11-29	N	NULL	500	5	1
6	6	2017-11-27	Y	NULL	400	6	1
7	7	2017-11-30	Y	NULL	400	7	1
8	8	2017-11-25	N	NULL	600	8	1
9	9	2017-11-26	Y	NULL	550	9	1
10	10	2017-11-28	Y	NULL	520	10	1
11	11	2017-11-29	Y	NULL	520	21	1
12	12	2017-12-03	N	NULL	600	22	1
13	13	2017-12-04	Y	NULL	600	23	1
14	14	2017-12-07	Y	NULL	450	24	1
15	15	2017-12-03	Y	NULL	650	25	1
16	16	2017-11-26	Y	800...	N...	11	2
17	17	2017-11-27	Y	900...	N...	12	2
18	18	2017-11-25	Y	750...	N...	13	2
19	19	2017-11-28	Y	850...	N...	14	2
20	20	2017-11-29	Y	650...	N...	15	2
21	21	2017-11-25	N	950...	N...	16	2
22	22	2017-11-30	Y	100...	N...	17	2
23	23	2017-11-22	Y	850...	N...	18	2
24	24	2017-12-06	Y	600...	N...	19	2
25	25	2017-12-16	Y	650...	N...	20	2
26	26	2017-12-10	Y	580...	N...	26	2
27	27	2017-12-08	N	750...	N...	27	2

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\okmutrej (80) | IST659_M003_okmutrej | 00:00:00 | 52 rows

```
----------Insert data in Review table----------
Insert into Review
Values (1,'2','unhygenic house, not cooperative landlord','1','1')

Insert into Review
Values (2,'3','decent house, not cooperative landlord','2','2')
```

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```
Insert into Review
Values (3,'4','nice house, cooperative landlord','2','3')

Insert into Review
Values (4,'3','lot of robbery','3','4')

Insert into Review
Values (5,'4','good house, cooperative landlord','1','5')

Insert into Review
Values (6,'3.5','decent house, cooperative landlord, bad heater','3','6')

Insert into Review
Values (7,'4.5','good house','2','7')

Insert into Review
Values (8,'4.5','good house, cooperative landlord','2','8')

Insert into Review
Values (9,'2.5','decent house, not good neighburhood','1','9')

Insert into Review
Values (10,'4','good house, near to university','3','10')

Insert into Review
Values (11,'4','good house, near to market','2','11')

Insert into Review
Values (12,'5','good house, near to university, cooperative landlord','2','12')

Insert into Review
Values (13,'4.5','recently renovated good house','3','13')

Insert into Review
Values (14,'3.8','good house','1','14')

Insert into Review
Values (15,'3.5',' issues with heater, rest good house','1','15')

Insert into Review
Values (16,'4.2','beautiful house','2','16')

Insert into Review
Values (17,'4',’ parking issues, rest good house','3','17')

Insert into Review
Values (18,'3.8',' not so friendly neighborhood, rest good house','2','18')

Insert into Review
Values (19,'4',’ good house','3','19')

Insert into Review
Values (20,'4',' decent house','1','20')
```

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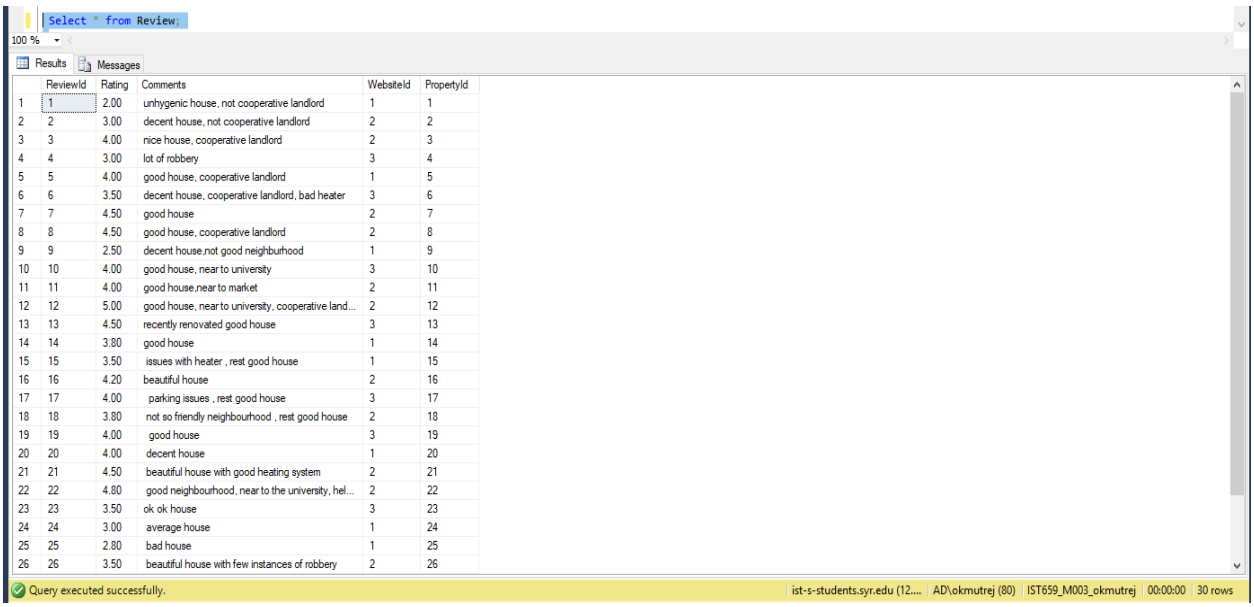
```
Insert into Review
Values (21,'4.5',' beautiful house with good heating system','2','21')

Insert into Review
Values (22,'4.8',' good neighborhood, near to the university, helpful landlord','2','22')

Insert into Review
Values (23,'3.5','ok ok house','3','23')

Insert into Review
Values (24,'3',' average house','1', and'24')

Insert into Review
Values (25,'2.8',' bad house','1','25')

Insert into Review
Values (26,'3.5',' beautiful house with few instances of robbery','2','26')

Insert into Review
Values (27,'4.3','great house with good locality','2','27')

Insert into Review
Values (28,'2.7',' creepy house','1','28')

Insert into Review
Values (29,'3.3',' parking is an issue','3','29')

Insert into Review
Values (30,'2.5','not good neighbourhood','1','30')

Select * from Review;
```



```
Select * from Review;
```

100 %

Results | Messages

	ReviewId	Rating	Comments	WebsiteId	PropertyId
1	1	2.00	unhygenic house, not cooperative landlord	1	1
2	2	3.00	decent house, not cooperative landlord	2	2
3	3	4.00	nice house, cooperative landlord	2	3
4	4	3.00	lot of robbery	3	4
5	5	4.00	good house, cooperative landlord	1	5
6	6	3.50	decent house, cooperative landlord, bad heater	3	6
7	7	4.50	good house	2	7
8	8	4.50	good house, cooperative landlord	2	8
9	9	2.50	decent house,not good neighburhood	1	9
10	10	4.00	good house, near to university	3	10
11	11	4.00	good house,near to market	2	11
12	12	5.00	good house, near to university, cooperative land...	2	12
13	13	4.50	recently renovated good house	3	13
14	14	3.80	good house	1	14
15	15	3.50	issues with heater , rest good house	1	15
16	16	4.20	beautiful house	2	16
17	17	4.00	parking issues , rest good house	3	17
18	18	3.80	not so friendly neighbourhood , rest good house	2	18
19	19	4.00	good house	3	19
20	20	4.00	decent house	1	20
21	21	4.50	beautiful house with good heating system	2	21
22	22	4.80	good neighbourhood, near to the university, hel...	2	22
23	23	3.50	ok ok house	3	23
24	24	3.00	average house	1	24
25	25	2.80	bad house	1	25
26	26	3.50	beautiful house with few instances of robbery	2	26

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\okmutrej (80) | IST659_M003_okmutrej | 00:00:00 | 30 rows

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MAJOR DATA QUESTIONS

---What percentage of users are students and buyers----
Select CASE when UserType='B' then 'Buyer' else 'Student' END 'UserType',
(count(UserId)*100/(Select count(*) from Users)) 'Percentage' from Users
group by CASE when UserType='B' then 'Buyer' else 'Student' END

```
---What percentage of users are students and buyers----
Select  CASE when UserType='B' then 'Buyer' else 'Student' END  'UserType',
(count(UserId)*100/(Select count(*) from Users)) 'Percentage' from Users
group by  CASE when UserType='B' then 'Buyer' else 'Student' END
```

100 %

Results | Messages

	UserType	Percentage
1	Buyer	50
2	Student	50

---What percentage of Users are male and female----
Select Gender,CASE when UserType='B' then 'Buyer' else 'Student' END 'UserType',
(count(UserID)*100/(Select count(*) from Users)) 'Percentage' from Users
group by CASE when UserType='B' then 'Buyer' else 'Student' END, Gender

```
---What percentage of Users are male and female----
Select Gender,CASE when UserType='B' then 'Buyer' else 'Student' END  'UserType',
(count(UserID)*100/(Select count(*) from Users)) 'Percentage' from Users
group by CASE when UserType='B' then 'Buyer' else 'Student' END, Gender
```

100 %

Results | Messages

	Gender	UserType	Percentage
1	Female	Buyer	25
2	Female	Student	30
3	Male	Buyer	25
4	Male	Student	20

----What is the age range of students----
Select Age, (count(UserID)*100/(select count(*) from Student)) 'Percentage' from Student
group by age

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```
----What is the age range of students----
Select Age, (count(UserID)*100/(select count(*) from Student)) 'Percentage' from Student
group by age
```

100 %

Results | Messages

	Age	Percentage
1	21	10
2	23	20
3	24	50
4	25	10
5	26	10

```
-------•  What perentage of properties does each website display?----------
Select D.WebsiteId, W.WebsiteName,count(D.PropertyId) AS 'Count',
(count(D.PropertyId)*100/(Select count(*) from Display)) 'Percentage' from Display D,RetailWebsite W
where D.WebsiteId=W.WebsiteId
group by D.WebsiteId,W.WebsiteName
--having count(D.PropertyId) >= ALL (Select count(*) from Display group by WebsiteId)
```

```
--------•  What perentage of properties does each website display?----------
Select D.WebsiteId, W.WebsiteName,count(D.PropertyId) AS 'Count',
(count(D.PropertyId)*100/(Select count(*) from Display)) 'Percentage' from Display D,RetailWebsite W
where D.WebsiteId=W.WebsiteId
group by D.WebsiteId,W.WebsiteName
--having count(D.PropertyId) >= ALL (Select count(*) from Display group by WebsiteId)
```

100 %

Results | Messages

	WebsiteId	WebsiteName	Count	Percentage
1	1	Orange Housing	15	28
2	2	Zillow	25	48
3	3	Syracuse Quality Living	12	23

```
----------What is the average rating of each website----------
Select Rw.WebsiteId,RW.WebsiteName,AVG(R.Rating) 'Average Rating' from RetailWebsite RW, Review R,Display D
where RW.WebsiteId=D.WebsiteId
and RW.WebsiteId=R.WebsiteId
group by Rw.WebsiteId,RW.WebsiteName
order by AVG(R.Rating) desc
```

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```
------------What is the average rating of each website----------------
Select Rw.WebsiteId,RW.WebsiteName,AVG(R.Rating) 'Average Rating' from RetailWebsite RW, Review R,Display D
where RW.WebsiteId=D.WebsiteId
and RW.WebsiteId=R.WebsiteId
group by Rw.WebsiteId,RW.WebsiteName
order by AVG(R.Rating) desc
```

100 %

Results | Messages

	WebsiteId	WebsiteName	Average Rating
1	2	Zillow	4.175000
2	3	Syracuse Quality Living	3.725000
3	1	Orange Housing	3.080000

```
---What percentage of property is for renting and buying------
Select CASE when PropertyType='R' then 'RentalProperty' else 'Property for Sale' END,
(count(PropertyId)*100/(Select count(*) from Property)) 'Percentage' from Property
group by PropertyType
```

```
---What percentage of property is for renting and buying------
Select CASE when PropertyType='R' then 'RentalProperty' else 'Property for Sale' END,
(count(PropertyId)*100/(Select count(*) from Property)) 'Percentage' from Property
group by PropertyType
```

100 %

Results | Messages

	(No column name)	Percentage
1	RentalProperty	50
2	Property for Sale	50

```
------What are the total number of rental properties in different rent range-?
--select min (Rent), max (Rent), min (Price), max (Price) from Display
Select
(CASE when Rent between 325 and 425 then 'Affordable 325 to 425'
when Rent between 425 and 525 then 'Moderate 425 to 525'
when Rent between 525 and 675 then 'Expensive 525 to 675'
ELSE 'NA' END) AS 'Rent_Range', count(P.PropertyId) 'Total Rental Properties'
from Display D, Property P
where D.PropertyId=P.PropertyId
and P.PropertyType='R'
group by (CASE when Rent between 325 and 425 then 'Affordable 325 to 425'
when Rent between 425 and 525 then 'Moderate 425 to 525'
when Rent between 525 and 675 then 'Expensive 525 to 675'
ELSE 'NA' END)
```

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```
--------------What are the total number of rental properties in different rent range-----------------------
--select min(Rent),max(Rent),min(Price),max(Price) from Display
 Select
(CASE when Rent between 325 and 425 then 'Affordable 325 to 425'
when Rent between 425 and 525 then 'Moderate 425 to 525'
when Rent between 525 and 675 then 'Expensive 525 to 675'
ELSE 'NA' END) AS 'Rent_Range', count(P.PropertyId) 'Total Rental Properties'
from Display D, Property P
where D.PropertyId=P.PropertyId
and P.PropertyType='R'
group by (CASE when Rent between 325 and 425 then 'Affordable 325 to 425'
when Rent between 425 and 525 then 'Moderate 425 to 525'
when Rent between 525 and 675 then 'Expensive 525 to 675'
ELSE 'NA' END)

--------------CASE - Sale Properties-----------------------
```

100 %

Results | Messages

	Rent_Range	Total Rental Properties
1	Affordable 325 to 425	7
2	Expensive 525 to 675	8
3	Moderate 425 to 525	14

```
--------------What are the total number of sale properties in different price range------
Select
(CASE when Price between 58000 and 70000 then 'Affordable 58000 to 70000'
when Price between 70000 and 90000 then 'Moderate 70000 to 90000'
when Price between 90000 and 105000 then 'Expensive 90000 to 105000'
ELSE 'NA' END) AS 'Price_Range', count(P.PropertyId) 'Total Sale Properties'
from Display D, Property P
where D.PropertyId=P.PropertyId
and P.PropertyType='S'
group by (CASE when Price between 58000 and 70000 then 'Affordable 58000 to 70000'
when Price between 70000 and 90000 then 'Moderate 70000 to 90000'
when Price between 90000 and 105000 then 'Expensive 90000 to 105000'
ELSE 'NA' END)
```

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```
--------------What are the total number of sale properties in different price range-----------------------
Select
(CASE when Price between 58000 and 70000 then 'Affordable 58000 to 70000'
when Price between 70000 and 90000 then 'Moderate 70000 to 90000'
when Price between 90000 and 105000 then 'Expensive 90000 to 105000'
ELSE 'NA' END) AS 'Price_Range', count(P.PropertyId) 'Total Sale Properties'
from Display D, Property P
where D.PropertyId=P.PropertyId
and P.PropertyType='S'
group by (CASE when Price between 58000 and 70000 then 'Affordable 58000 to 70000'
when Price between 70000 and 90000 then 'Moderate 70000 to 90000'
when Price between 90000 and 105000 then 'Expensive 90000 to 105000'
ELSE 'NA' END)


----Which is most expensive expensive Rental property and Property for Sale in the entire database-----
```

100 %

Results | Messages

	Price_Range	Total Sale Properties
1	Affordable 58000 to 70000	8
2	Expensive 90000 to 105000	6
3	Moderate 70000 to 90000	9

```
----Which is most expensive Rental property and Property for Sale in the entire database-----
Select distinct R.WebsiteName,P.PlotNumber,P.StreetName,Case when PropertyType='S' then 'Property for Sale' else
'Rental Property' END As 'PropertyType',
D.Price,D.Rent from Property P, Display D, RetailWebsite R
where P.PropertyId=D.PropertyId
and D.WebsiteId=R.WebsiteId
--and P.PropertyType='S'
group by R.WebsiteName,P.PlotNumber,P.StreetName,D.Price,D.Rent,Case when PropertyType='S' then 'Property for
Sale' else 'Rental Property' END
having D.Price >= ALL (Select D.Price from Display D, Property P where D.PropertyId=P.PropertyId and P.PropertyType='S'
group by Price)
OR D.Rent >= ALL (Select D.Rent from Display D, Property P where D.PropertyId=P.PropertyId and P.PropertyType='R'
group by Rent)
```

```
----Which is most expensive expensive Rental property and Property for Sale in the entire database-----
Select distinct R.WebsiteName,P.PlotNumber,P.StreetName,Case when PropertyType='S' then 'Property for Sale' else 'Rental Property' END As 'PropertyType',
D.Price,D.Rent from Property P, Display D, RetailWebsite R
where P.PropertyId=D.PropertyId
and D.WebsiteId=R.WebsiteId
--and P.PropertyType='S'
group by R.WebsiteName,P.PlotNumber,P.StreetName,D.Price,D.Rent,Case when PropertyType='S' then 'Property for Sale' else 'Rental Property' END
having D.Price >= ALL (Select D.Price from Display D, Property P where D.PropertyId=P.PropertyId and P.PropertyType='S' group by Price)
OR D.Rent >= ALL (Select D.Rent from Display D, Property P where D.PropertyId=P.PropertyId and P.PropertyType='R' group by Rent)
--order by D.Price desc

  ----Which is least expensive expensive Rental property and Property for Sale in the entire database-----
Select distinct R.WebsiteName,P.PlotNumber,P.StreetName,Case when PropertyType='S' then 'Property for Sale' else 'Rental Property' END As 'PropertyType',
```

100 %

Results | Messages

	WebsiteName	PlotNumber	StreetName	PropertyType	Price	Rent
1	Syracuse Quality Living	43	Basset	Rental Property	NULL	675
2	Syracuse Quality Living	420	Westcott	Property for Sale	105000	NULL
3	Zillow	803	Ackerman	Property for Sale	105000	NULL

----Which is least expensive expensive Rental property and Property for Sale in the entire database-----

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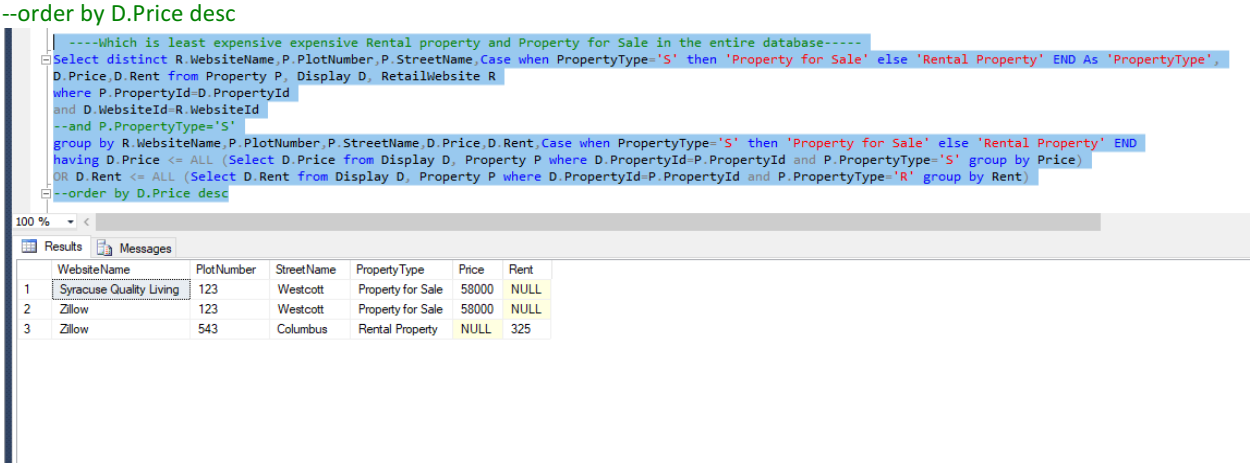
```
Select distinct R.WebsiteName,P.PlotNumber,P.StreetName,Case when PropertyType='S' then 'Property for Sale' else
'Rental Property' END As 'PropertyType',
D.Price,D.Rent from Property P, Display D, RetailWebsite R
where P.PropertyId=D.PropertyId
and D.WebsiteId=R.WebsiteId
--and P.PropertyType='S'
group by R.WebsiteName,P.PlotNumber,P.StreetName,D.Price,D.Rent,Case when PropertyType='S' then 'Property for
Sale' else 'Rental Property' END
having D.Price <= ALL (Select D.Price from Display D, Property P where D.PropertyId=P.PropertyId and P.PropertyType='S'
group by Price)
OR D.Rent <= ALL (Select D.Rent from Display D, Property P where D.PropertyId=P.PropertyId and P.PropertyType='R'
group by Rent)
--order by D.Price desc
```




```
--------What is the street wise rating of different  Rental properties and how many rental properties are there on a single
street-------------
Select P.StreetName,AVG(R.Rating) 'Rating', count(P.PropertyId) 'Total Number of Rental Apartments'
from Property P, Feature F, Review R
where P.PropertyId=F.PropertyId
and R.PropertyId=P.PropertyId
and P.PropertyType='R'
group by P.StreetName
order by AVG(R.Rating) desc
```

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```
--------What is the street wise rating of different properties and how many properties are there on a single street-------------
Select P.StreetName,AVG(R.Rating) 'Rating', count(P.PropertyId) 'Total Number of Rental Apartments'
from Property P, Feature F, Review R
where P.PropertyId=F.PropertyId
and R.PropertyId=P.PropertyId
and P.PropertyType='R'
group by P.StreetName
order by AVG(R.Rating) desc
```

100 %

Results | Messages

	StreetName	Rating	Total Number of Rental Apartments
1	Westcott	4.442857	7
2	Clarendon	4.000000	1
3	Columbus	4.000000	2
4	Ackerman	3.666666	3
5	Lancaster	3.000000	2
6	Basset	2.900000	2
7	Lexington	2.500000	2
8	South Beech	2.500000	2

--------What is the street wise rating of different Sale properties and how many Sale properties are there on a single street-------------

```
Select P.StreetName,AVG(R.Rating) 'Rating', count(P.PropertyId) 'Total Number of Sale Apartments'
from Property P, Feature F, Review R
where P.PropertyId=F.PropertyId
and R.PropertyId=P.PropertyId
and P.PropertyType='S'
group by P.StreetName
order by AVG(R.Rating) desc
```

```
--------What is the street wise rating of different  Sale properties and how many Sale properties are there on a single street-------------
Select P.StreetName,AVG(R.Rating) 'Rating', count(P.PropertyId) 'Total Number of Sale Apartments'
from Property P, Feature F, Review R
where P.PropertyId=F.PropertyId
and R.PropertyId=P.PropertyId
and P.PropertyType='S'
group by P.StreetName
order by AVG(R.Rating) desc
```

100 %

Results | Messages

	StreetName	Rating	Total Number of Sale Apartments
1	Clarendon	4.500000	3
2	Westcott	3.972000	25
3	Lancaster	3.800000	1
4	Ackerman	3.300000	2
5	Basset	2.700000	3
6	Lexington	2.500000	2

-------Which feature is present in most houses-------

```
Select F.FeatureName,count(P.PropertyId) 'Total Number Of Apartments'  from Feature F, Property P
where F.PropertyId=P.PropertyId
group by F.FeatureName
order by count(P.PropertyId) desc
```

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```
-------Which feature is present in most houses-------
Select F.FeatureName,count(P.PropertyId) 'Total Number Of Apartments'  from Feature F, Property P
where F.PropertyId=P.PropertyId
group by F.FeatureName
order by count(P.PropertyId) desc
```

100 %

Results | Messages

	FeatureName	Total Number Of Apartments
1	Heating	30
2	Laundary	17
3	Parking	10

```
----What are the total number of distinct features present in all the properties
Select P.PlotNumber,P.StreetName,count(distinct FeatureName) 'Distinct Feature Count'
from Feature F, Property P
where F.PropertyId=P.PropertyId
group by P.PlotNumber,P.StreetName
order by count(distinct FeatureName) desc
```

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```
----What are the total number of distinct features present in all the properties ----------
Select P.PlotNumber,P.StreetName,count(distinct FeatureName) 'Distinct Feature Count'
from Feature F, Property P
where F.PropertyId=P.PropertyId
group by P.PlotNumber,P.StreetName
order by count(distinct FeatureName) desc
```

100 %

Results | Messages

	PlotNumber	StreetName	Distinct Feature Count
1	738	Basset	3
2	490	Clarendon	3
3	220	Westcott	3
4	320	Westcott	3
5	420	Westcott	3
6	490	Westcott	3
7	900	Westcott	3
8	970	Westcott	2
9	700	Westcott	2
10	870	Westcott	2
11	440	Westcott	2
12	333	Westcott	2
13	343	Ackerman	2
14	803	Ackerman	2
15	582	Lexington	2
16	1110	Lexington	2

Query executed successfully. | ist-s-students.syr.edu (12.... | AD\okmutrej (90) | IST659_M003_okmutrej | 00:00:00 | 30 rows

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Interfaces

Home Page:

Login Page:

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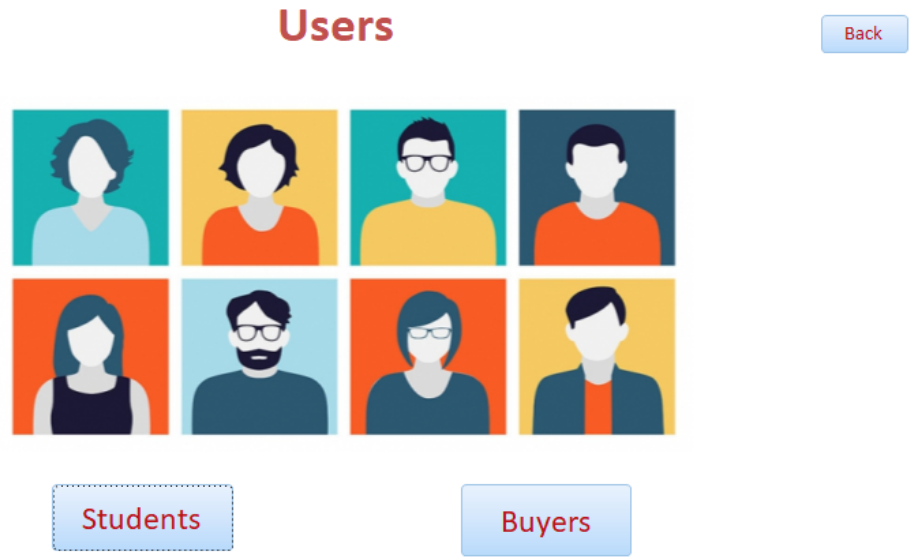
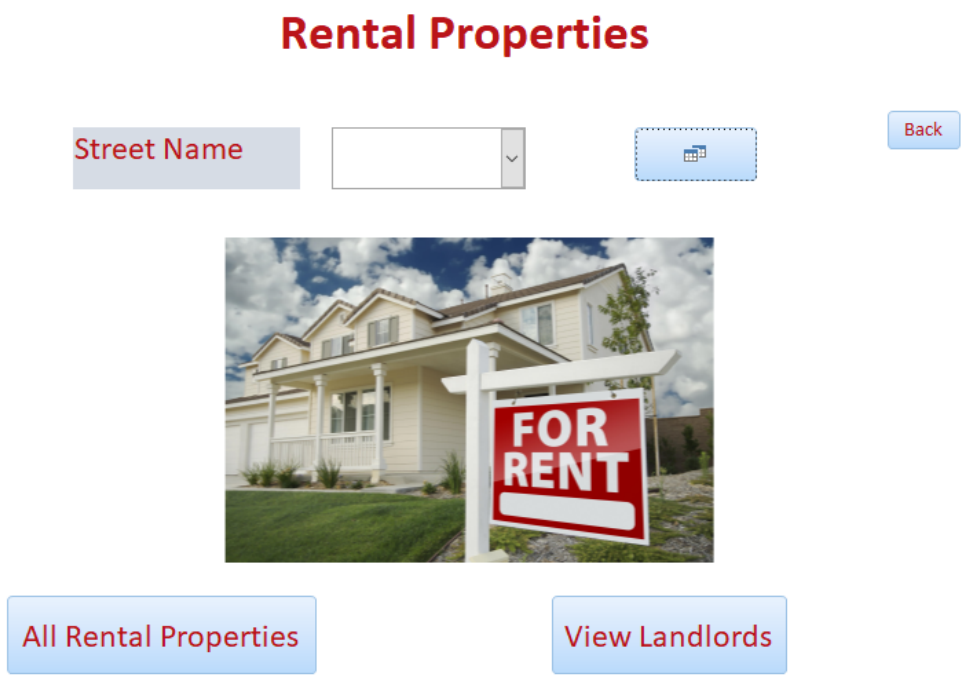
When you enter as a User:



When you enter as Students:



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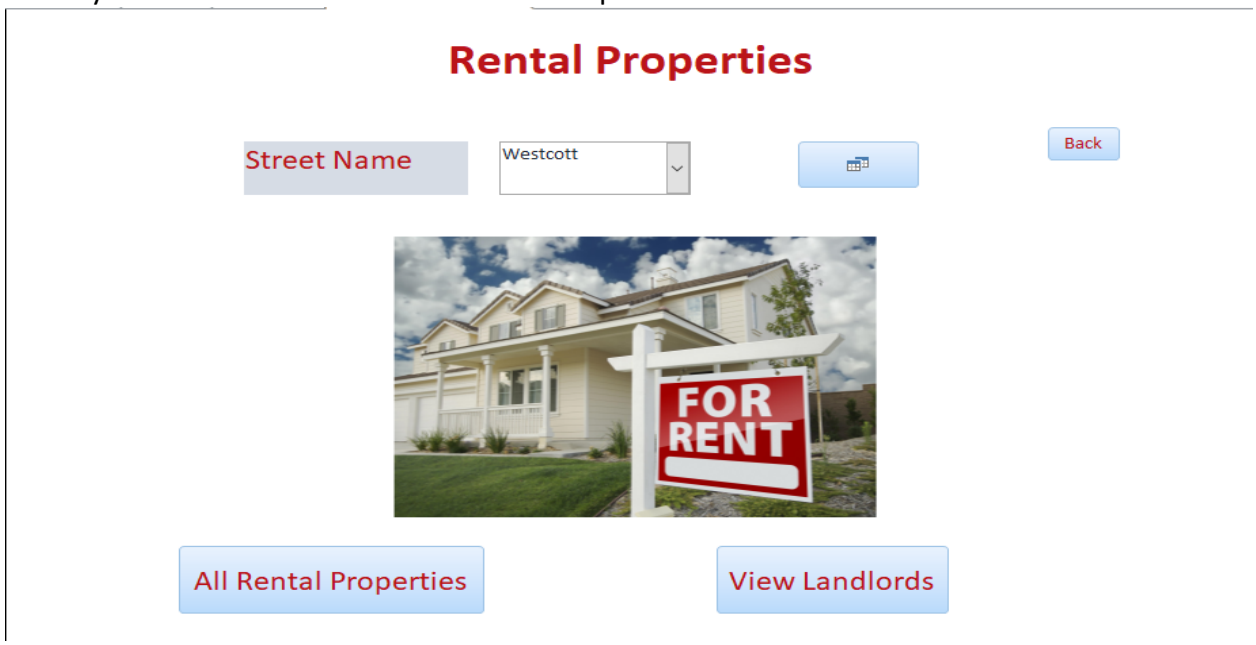
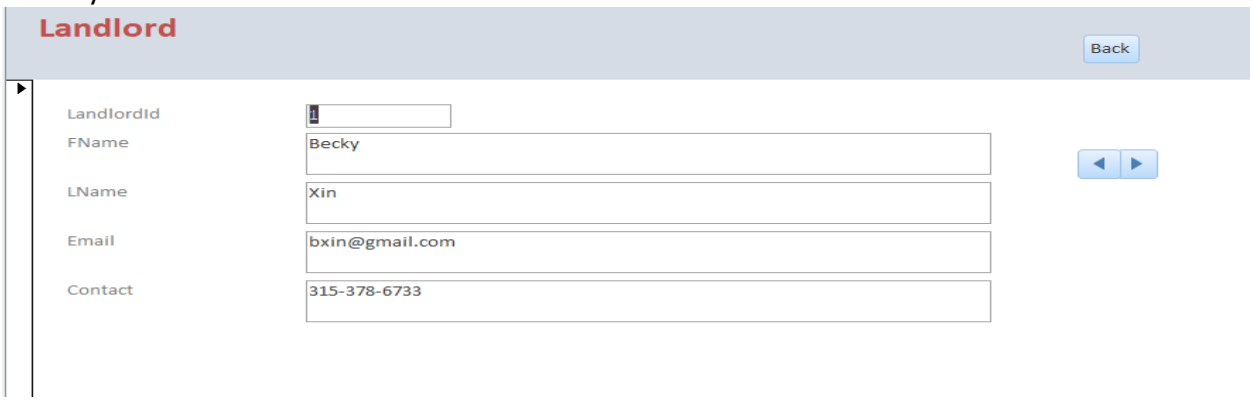
When you choose a street name from the drop down menu:



When you hit the button besides the drop down menu:

StreetName	WebsiteId	WebsiteNan	DisplayDate	Availibility	Expr1005	PropertyId	PlotNumber	FloorNumbe	Zip	TotalArea	PropertyBui	Feat
Westcott	1	Orange Housin	2017-11-25	N	600	8	620	2	13210	1200	1936-01-01	
Westcott	1	Orange Housin	2017-11-29	N	500	5	440	2	13210	1300	1948-01-01	
Westcott	1	Orange Housin	2017-11-29	N	500	5	440	2	13210	1300	1948-01-01	
Westcott	1	Orange Housin	2017-11-29	Y	520	21	870	2	13210	1080	1998-05-04	
Westcott	1	Orange Housin	2017-11-29	Y	520	21	870	2	13210	1080	1998-05-04	
Westcott	1	Orange Housin	2017-12-03	N	600	22	333	3	13210	1880	1999-04-04	
Westcott	1	Orange Housin	2017-12-03	N	600	22	333	3	13210	1880	1999-04-04	
Westcott	2	Zillow	2017-11-25	N	500	8	620	2	13210	1200	1936-01-01	
Westcott	2	Zillow	2017-11-29	N	450	5	440	2	13210	1300	1948-01-01	
Westcott	2	Zillow	2017-11-29	N	450	5	440	2	13210	1300	1948-01-01	
Westcott	2	Zillow	2017-11-29	Y	440	21	870	2	13210	1080	1998-05-04	
Westcott	2	Zillow	2017-11-29	Y	440	21	870	2	13210	1080	1998-05-04	
Westcott	2	Zillow	2017-12-03	N	490	22	333	3	13210	1880	1999-04-04	
Westcott	2	Zillow	2017-12-03	N	490	22	333	3	13210	1880	1999-04-04	
Westcott	3	Syracuse Quali	2017-12-03	N	550	22	333	3	13210	1880	1999-04-04	
Westcott	3	Syracuse Quali	2017-12-03	N	550	22	333	3	13210	1880	1999-04-04	

When you click on View Landlords:



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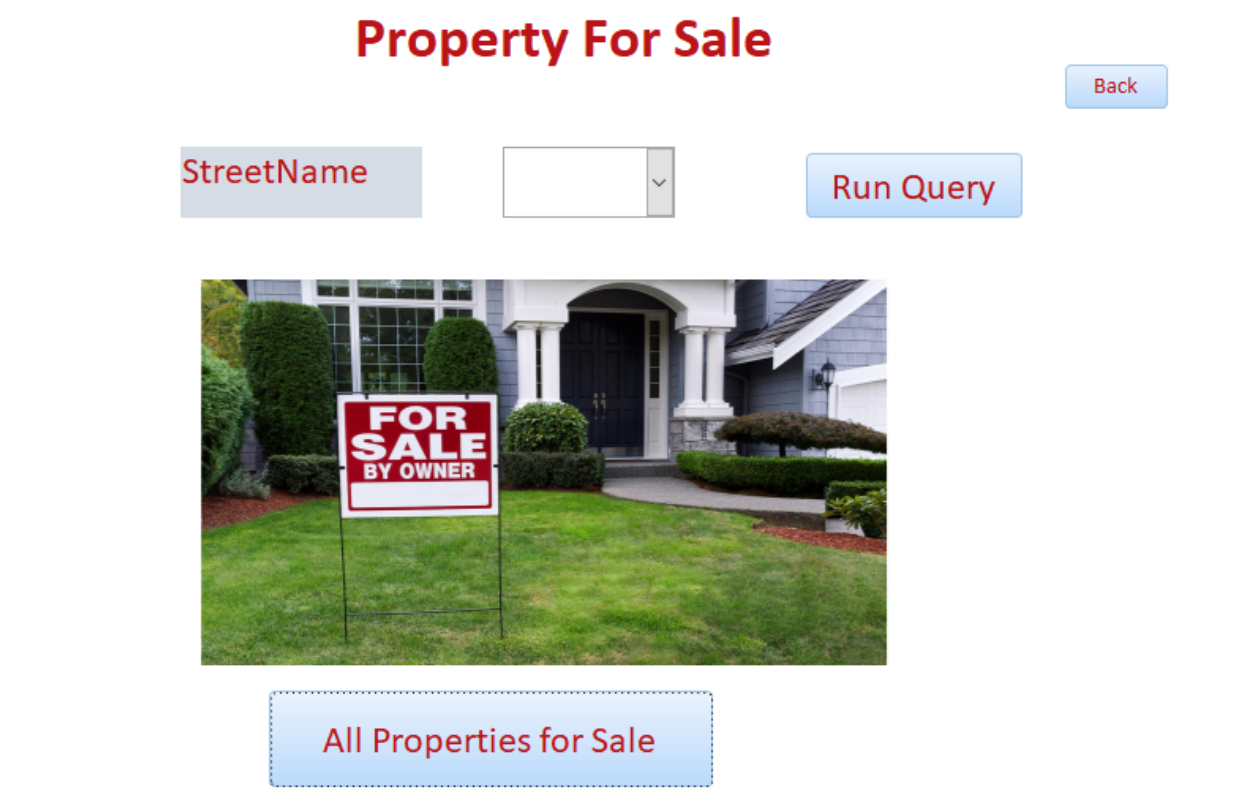
When you enter as Buyers:



When you select a street from the drop down menu and hit the Run Query button

StreetName	WebsiteId	WebsiteNan	DisplayDate	Availibility	PropertyId	PlotNumber	FloorNumbe	Zip	TotalArea	PropertyBui	FeatureId	Featu
Lancaster	2	Zillow	2017-11-28	Y	14	1090	2	13210	500	2007-05-04	24	Heati

Entering as an Admin:

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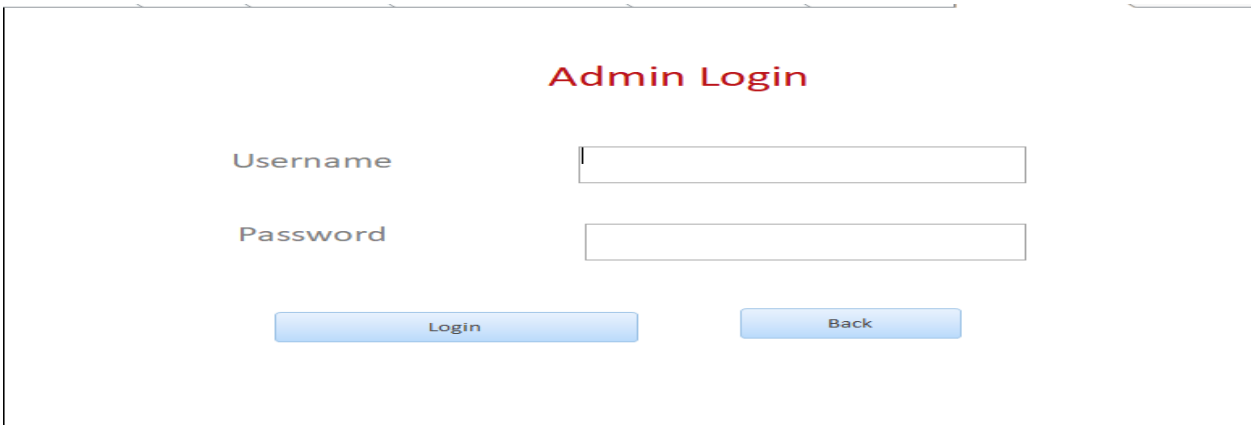
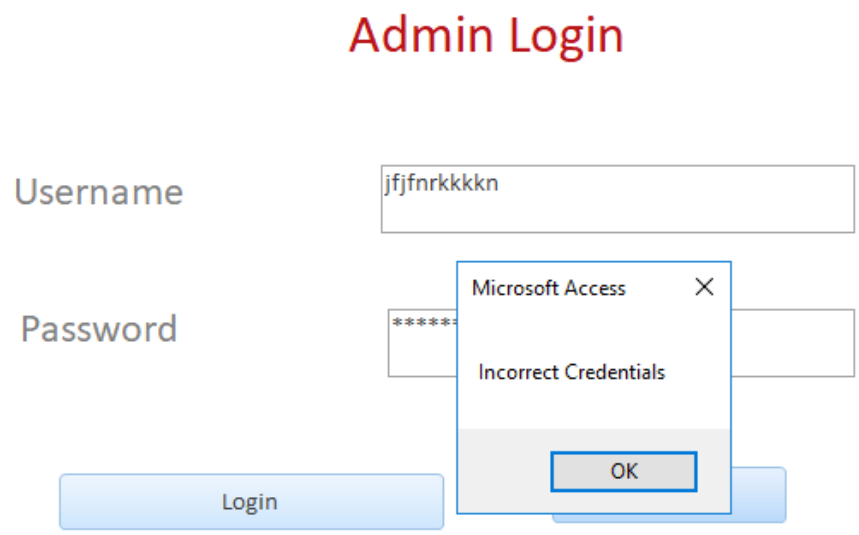
Omkar Mutreja



On entering the wrong Username or password:



On entering the correct Username and password:

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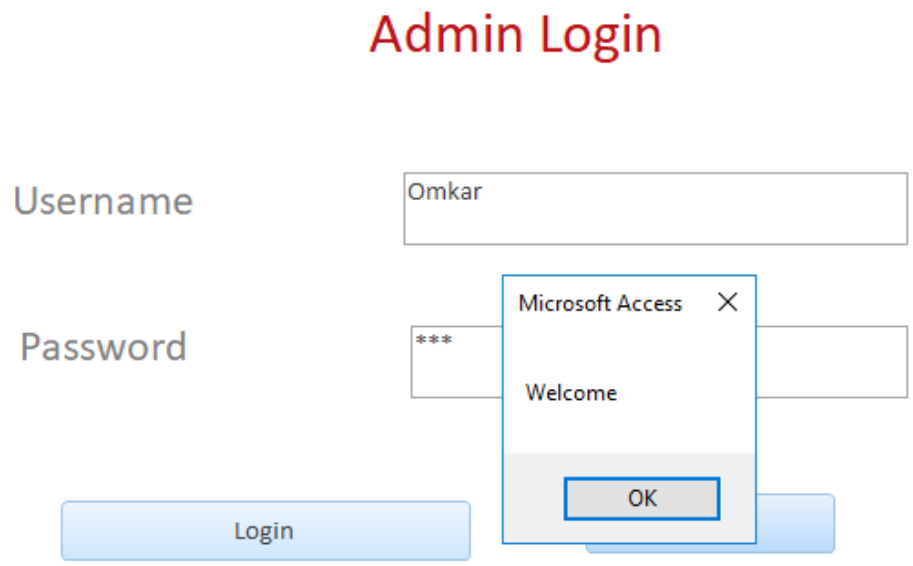
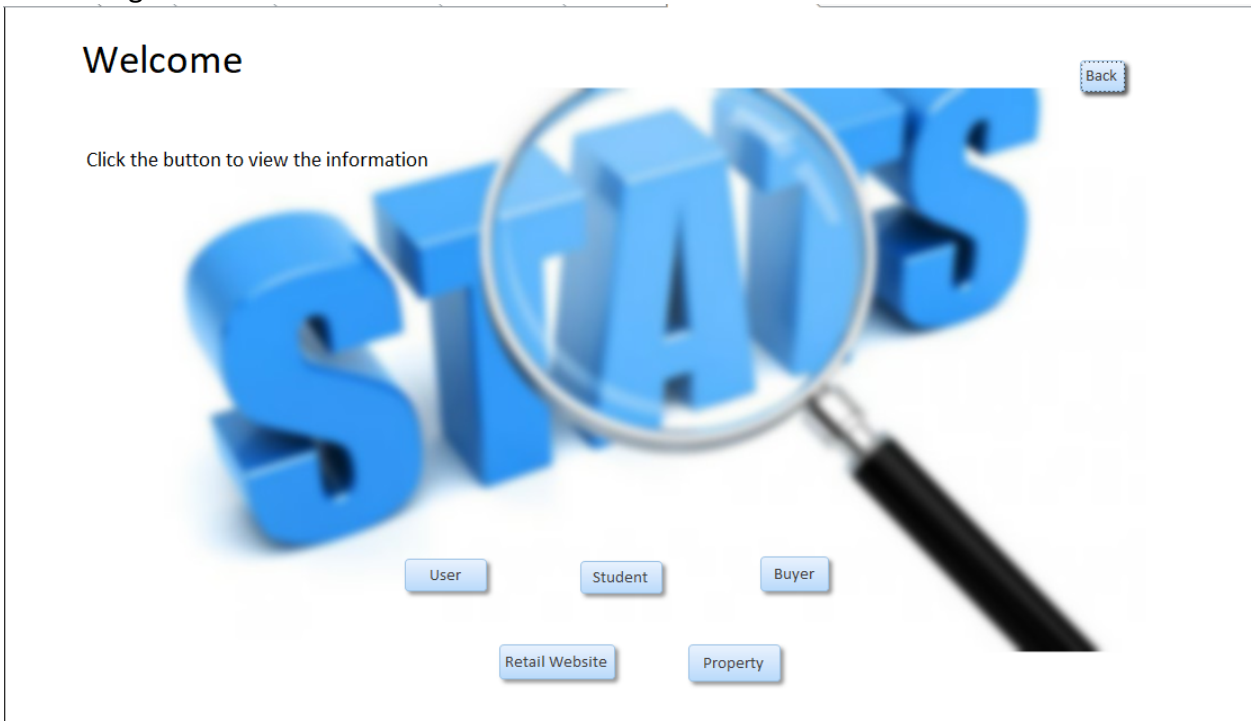


On clicking on OK:



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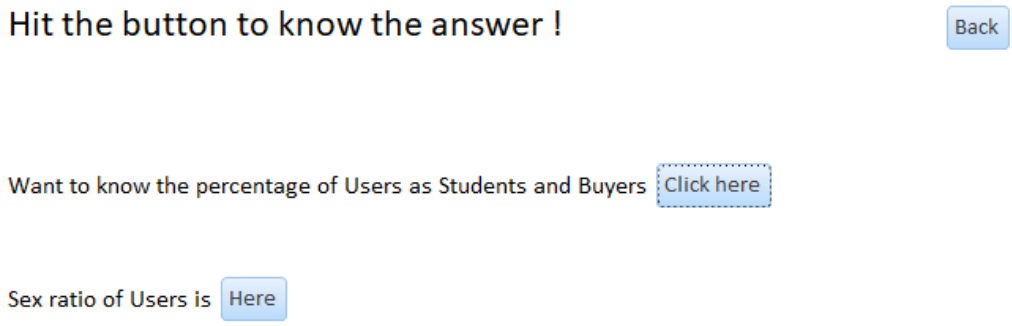
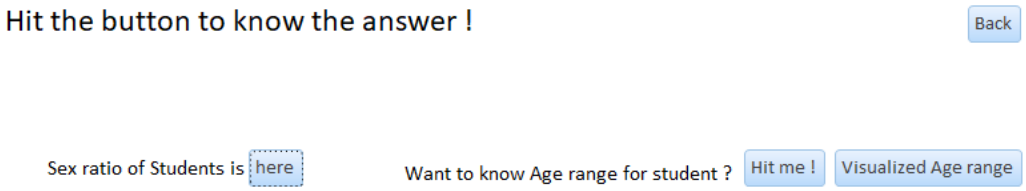
On clicking on User :



On clicking on Student:



On clicking on Buyer:

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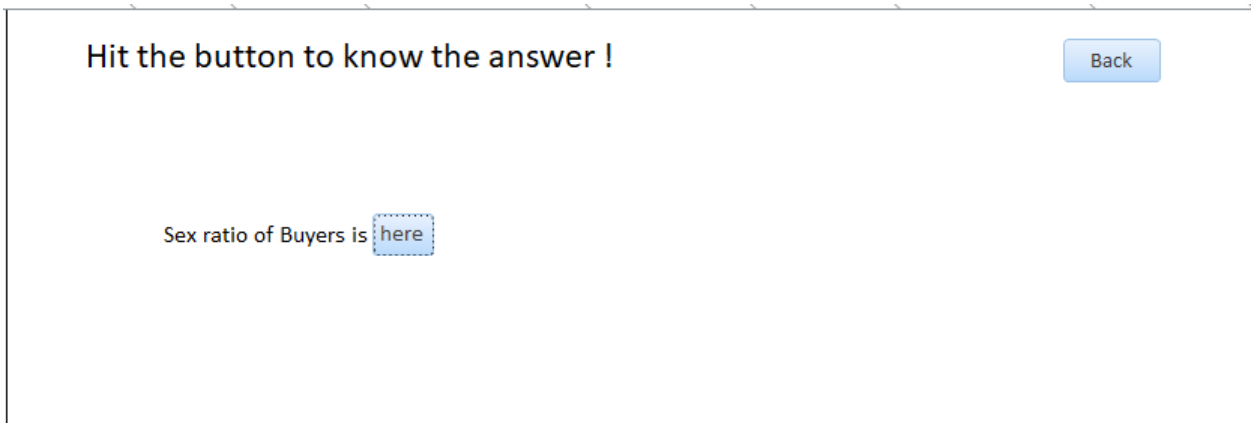
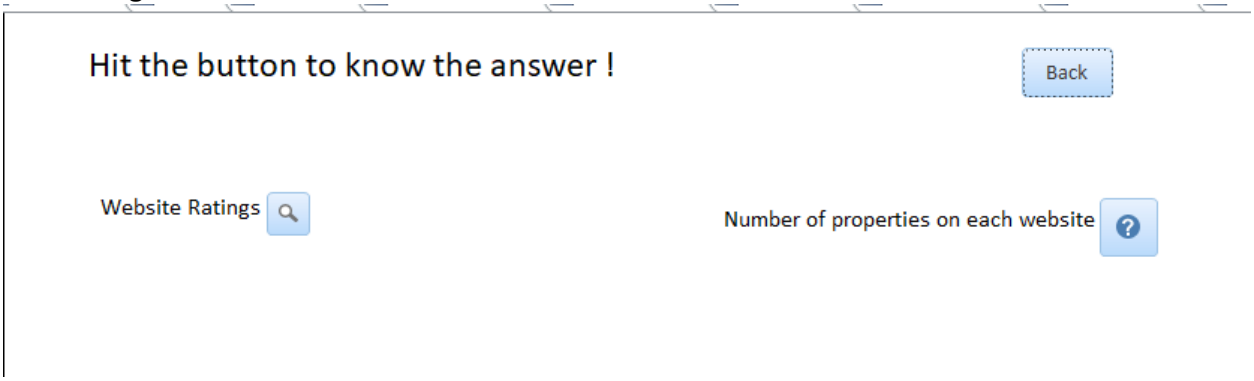


On clicking on Retail Website



On clicking on Website Ratings:

WebsiteId	WebsiteName	AvgRating
2	Zillow	4.175
3	Syracuse Quality Living	3.725
1	Orange Housing	3.08

On clicking on Property:

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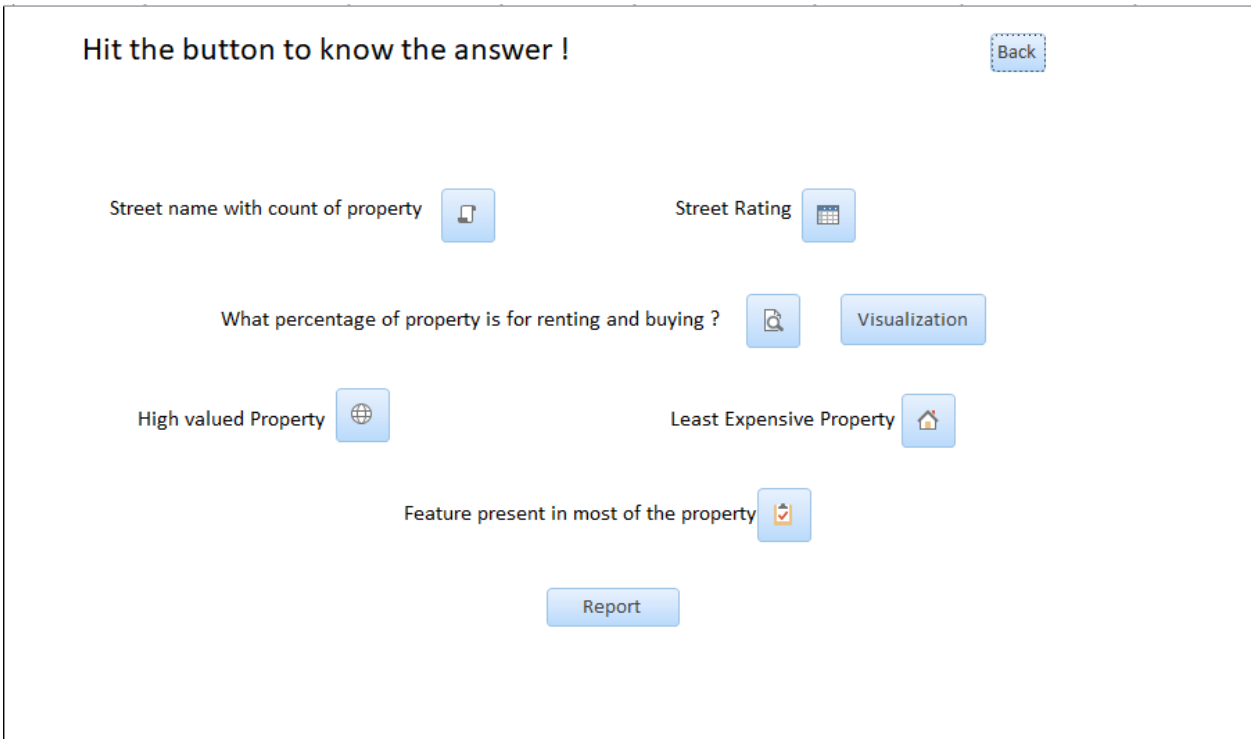
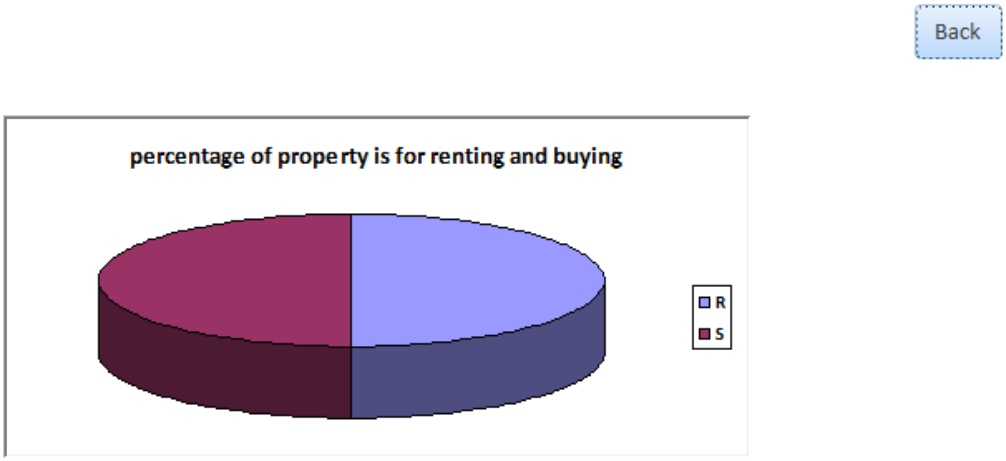


On clicking on Visualization button from the above screenshot:



*R ~ Property for rent -50%
S ~ Property for sale -50%

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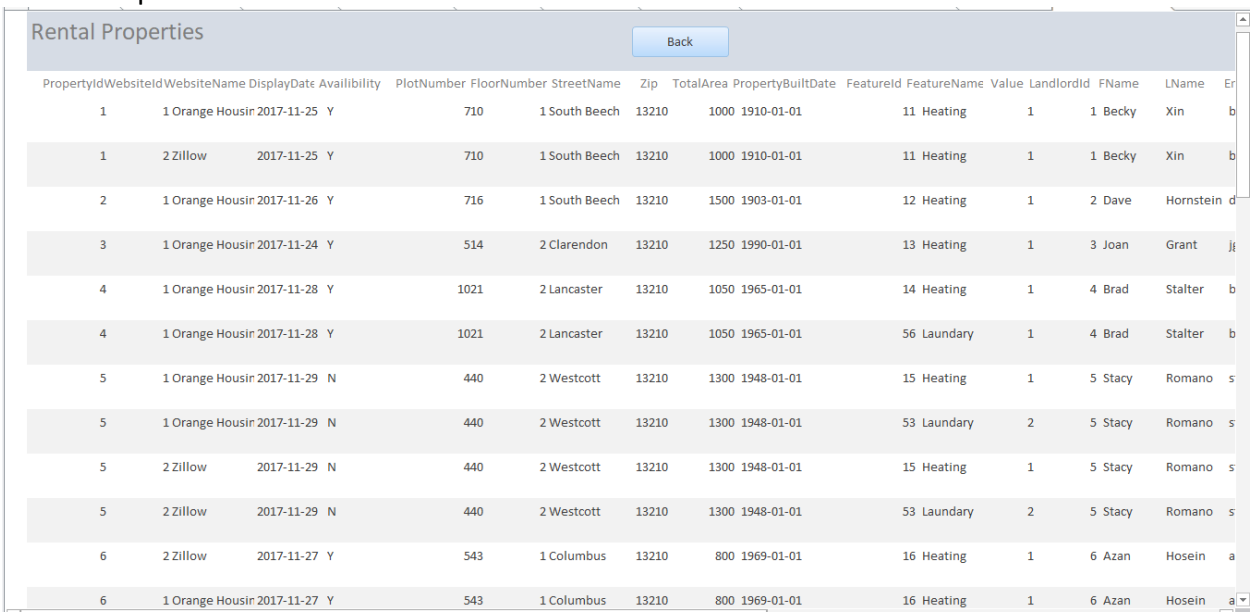
Reports

Rental Properties:



Rental Properties

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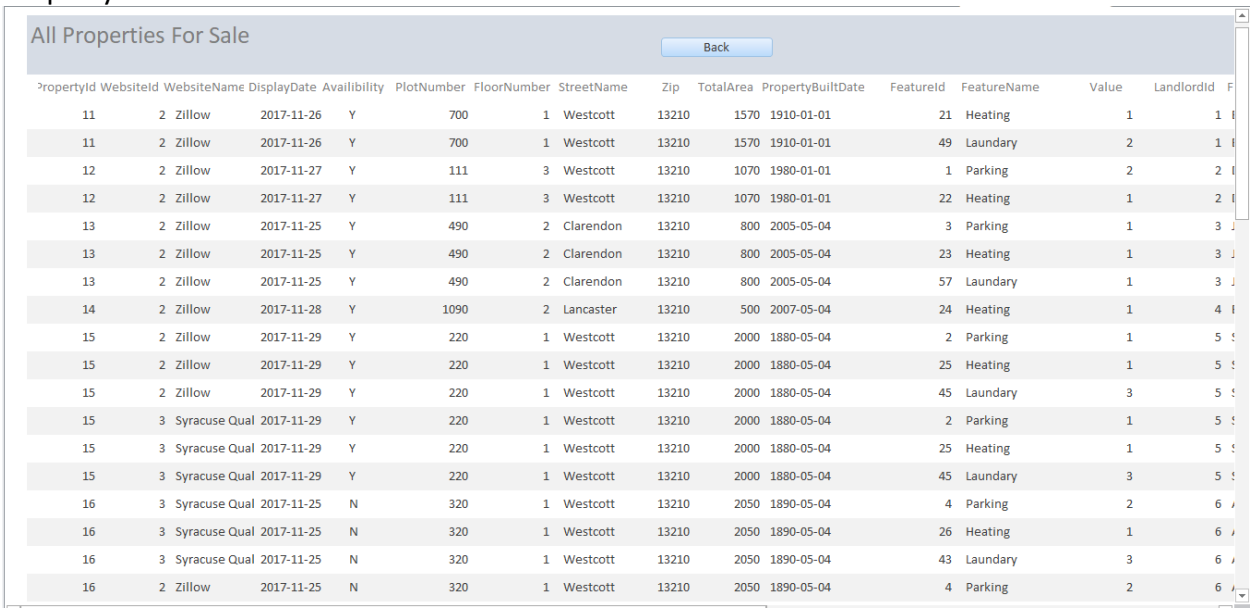
PropertyId	WebsiteId	WebsiteName	DisplayDate	Availibility	PlotNumber	FloorNumber	StreetName	Zip	TotalArea	PropertyBuiltDate	FeatureId	FeatureName	Value	LandlordId	FName	LName	Er
1	1	Orange Housin	2017-11-25	Y	710	1	South Beech	13210	1000	1910-01-01	11	Heating	1	1	Becky	Xin	b
1	2	Zillow	2017-11-25	Y	710	1	South Beech	13210	1000	1910-01-01	11	Heating	1	1	Becky	Xin	b
2	1	Orange Housin	2017-11-26	Y	716	1	South Beech	13210	1500	1903-01-01	12	Heating	1	2	Dave	Hornstein	d
3	1	Orange Housin	2017-11-24	Y	514	2	Clarendon	13210	1250	1990-01-01	13	Heating	1	3	Joan	Grant	jg
4	1	Orange Housin	2017-11-28	Y	1021	2	Lancaster	13210	1050	1965-01-01	14	Heating	1	4	Brad	Stalter	b
4	1	Orange Housin	2017-11-28	Y	1021	2	Lancaster	13210	1050	1965-01-01	56	Laundary	1	4	Brad	Stalter	b
5	1	Orange Housin	2017-11-29	N	440	2	Westcott	13210	1300	1948-01-01	15	Heating	1	5	Stacy	Romano	s
5	1	Orange Housin	2017-11-29	N	440	2	Westcott	13210	1300	1948-01-01	53	Laundary	2	5	Stacy	Romano	s
5	2	Zillow	2017-11-29	N	440	2	Westcott	13210	1300	1948-01-01	15	Heating	1	5	Stacy	Romano	s
5	2	Zillow	2017-11-29	N	440	2	Westcott	13210	1300	1948-01-01	53	Laundary	2	5	Stacy	Romano	s
6	2	Zillow	2017-11-27	Y	543	1	Columbus	13210	800	1969-01-01	16	Heating	1	6	Azan	Hosein	a
6	1	Orange Housin	2017-11-27	Y	543	1	Columbus	13210	800	1969-01-01	16	Heating	1	6	Azan	Hosein	a

Property for Sale:



All Properties For Sale

Back

PropertyId	WebsiteId	WebsiteName	DisplayDate	Availibility	PlotNumber	FloorNumber	StreetName	Zip	TotalArea	PropertyBuiltDate	FeatureId	FeatureName	Value	LandlordId	F
11	2	Zillow	2017-11-26	Y	700	1	Westcott	13210	1570	1910-01-01	21	Heating	1	1	
11	2	Zillow	2017-11-26	Y	700	1	Westcott	13210	1570	1910-01-01	49	Laundary	2	1	
12	2	Zillow	2017-11-27	Y	111	3	Westcott	13210	1070	1980-01-01	1	Parking	2	2	
12	2	Zillow	2017-11-27	Y	111	3	Westcott	13210	1070	1980-01-01	22	Heating	1	2	
13	2	Zillow	2017-11-25	Y	490	2	Clarendon	13210	800	2005-05-04	3	Parking	1	3	J
13	2	Zillow	2017-11-25	Y	490	2	Clarendon	13210	800	2005-05-04	23	Heating	1	3	J
13	2	Zillow	2017-11-25	Y	490	2	Clarendon	13210	800	2005-05-04	57	Laundary	1	3	J
14	2	Zillow	2017-11-28	Y	1090	2	Lancaster	13210	500	2007-05-04	24	Heating	1	4	
15	2	Zillow	2017-11-29	Y	220	1	Westcott	13210	2000	1880-05-04	2	Parking	1	5	S
15	2	Zillow	2017-11-29	Y	220	1	Westcott	13210	2000	1880-05-04	25	Heating	1	5	S
15	2	Zillow	2017-11-29	Y	220	1	Westcott	13210	2000	1880-05-04	45	Laundary	3	5	S
15	3	Syracuse Qual	2017-11-29	Y	220	1	Westcott	13210	2000	1880-05-04	2	Parking	1	5	S
15	3	Syracuse Qual	2017-11-29	Y	220	1	Westcott	13210	2000	1880-05-04	25	Heating	1	5	S
15	3	Syracuse Qual	2017-11-29	Y	220	1	Westcott	13210	2000	1880-05-04	45	Laundary	3	5	S
16	3	Syracuse Qual	2017-11-25	N	320	1	Westcott	13210	2050	1890-05-04	4	Parking	2	6	A
16	3	Syracuse Qual	2017-11-25	N	320	1	Westcott	13210	2050	1890-05-04	26	Heating	1	6	A
16	3	Syracuse Qual	2017-11-25	N	320	1	Westcott	13210	2050	1890-05-04	43	Laundary	3	6	A
16	2	Zillow	2017-11-25	N	320	1	Westcott	13210	2050	1890-05-04	4	Parking	2	6	A

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Additional Information

1) **Why did you put the Administrator Login?**
   We have put the administrator login for security purposes. However, we felt the need that at times the administrator just wants to look at the statistics of the data to analyze the dataset, hence we put the administrator login. We wanted to create a portal wherein the administrator can view the data and get important trends and insights from the database along with adding, deleting and updating the data as and when required.