**1. Registered User Table:**

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| **Relational Schema:**    Registered\_User(  **reg\_usr\_id**: integer,  first\_name: string,  last\_name: string,  email: string,  phone\_number: integer,  user\_password: string  ) |
| **Query:**  create table REGISTERED\_USER(  reg\_usr\_id NUMBER(5) PRIMARY KEY,  first\_name varchar2(32) NOT NULL,  last\_name varchar2(32) NOT NULL,  email varchar2(64) NOT NULL,  phone\_number Number(11) NOT NULL,  user\_password varchar2(30) NOT NULL  ); |
| **Description:**  This table stores the relevant user information for registered users. It represents the Registered User Entity. |

**2. Unregistered User Table:**

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| **Relational Schema:**  Unregistered\_User(  **temp\_usr\_id**: integer,  firstname: string,  lastname:string  ) |
| **Query:**  create table UNREGISTERED\_USER(  temp\_usr\_id NUMBER(5) PRIMARY KEY,  first\_name varchar2(32),  last\_name varchar2(32)  ); |
| **Description:**  This table stores the temporary user id assigned to each guest user. It represents the Unregistered User Entity. |

**3. Buyer Table:**

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| **Relational Schema:**  Buyer(  **reg\_usr\_id**: integer,  minimum\_area: float,  maximum\_area:float,  minimum\_budget: float,  maximum\_budget: float  ) |
| **Query:**  create table BUYER(  reg\_usr\_id NUMBER(5) PRIMARY KEY,  minimun\_area FLOAT(5),  maximum\_area FLOAT(5),  minimun\_budget FLOAT(5),  maximum\_budget FLOAT(5),  FOREIGN KEY (reg\_usr\_id) REFERENCES REGISTERED\_USER(reg\_usr\_id)  ); |
| **Description:**  This table imports the buyer’s registered user id and stores the buyers preferences. It represents the Buyer Entity. |

**3. Seller Table:**

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| **Relational Schema:**  Seller(  **reg\_usr\_id**: integer  ) |
| **Query:**  create table SELLER(  reg\_usr\_id NUMBER(5) PRIMARY KEY,  FOREIGN KEY (reg\_usr\_id) REFERENCES REGISTERED\_USER(reg\_usr\_id)  ); |
| **Description:**  This table imports the seller’s registered user id. It represents the Seller Entity. |

**4. Property Table:**

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| **Relational Schema:**  Property(  **property\_id**: integer,  sq\_ft: float,  number\_of\_bedroom: integer,  number\_of\_floors: integer,  number\_of\_bathroom: integer,  year\_renovated: string,  year\_built: string,  image: blob,  status: string,  comment: string,  sale\_date: date,  price: float,  latitude: float,  longitude: float,  street: string,  zipcode: integer,  city: string,  seller\_id: integer  ) |
| **Query:**  create table PROPERTY(  property\_id NUMBER(5) PRIMARY KEY,  sq\_ft FLOAT(5) NOT NULL,  number\_of\_bedrooms NUMBER NOT NULL,  number\_of\_floors NUMBER,  number\_of\_bathroom NUMBER NOT NULL,  year\_renovated varchar2(4),  year\_built varchar2(4),  image blob,  status varchar2(8),  description varchar2(2048),  sale\_date date,  price FLOAT(5),  latitude FLOAT(5),  longitude FLOAT(5),  street varchar2(8),  zipcode integer,  city varchar2(8),  seller\_id NUMBER NOT NULL,  FOREIGN KEY (seller\_id) REFERENCES SELLER(reg\_usr\_id)  ); |
| **Description:**  This table stores the property’s characteristic attributes. It represents the Property Entity. |

**5. Reviews**

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| **Relational Schema:**  Reviews(  **review\_id**:integer,  rating: integer,  comments: string,  reg\_usr\_id: integer,  property\_id: integer  ) |
| **Query:**  create table Reviews(  review\_id NUMBER(5) PRIMARY KEY,  rating NUMBER(5),  comments varchar2(2048),  reg\_usr\_id NUMBER NOT NULL,  property\_id NUMBER NOT NULL,  FOREIGN KEY (reg\_usr\_id) REFERENCES REGISTERED\_USER(reg\_usr\_id),  FOREIGN KEY (property\_id) REFERENCES PROPERTY(property\_id)  ); |
| **Description:**  This table maintains the property’s reviews along with the user’s id who wrote it and the property for which it was written. It represents the Reviews Entity. |

**6. Property\_Feature**

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| **Relational Schema:**  Property\_Feature(  **property\_feature\_id**: integer,  **property\_id**:integer,  feature\_name: string,  feature\_value: string  ) |
| **Query:**  create table Property\_Feature(  property\_feature\_id NUMBER(5),  property\_id NUMBER(5),  feature\_name varchar2(128),  feature\_values varchar2(128),  FOREIGN KEY (property\_id) REFERENCES PROPERTY(property\_id),  PRIMARY KEY(property\_feature\_id,property\_id)  ); |
| **Description:**  This table maintains the property’s features such as parking availability, pet friendliness etc. It represents the Property Features Entity. |

**7. Area Features**

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| **Relational Schema:**  Area\_Features(  **zipcode**: integer,  number\_of\_restaurants: integer,  number\_of\_schools: integer,  number\_of\_marketplaces: integer,  crime\_rate: float  ) |
| **Query:**  create table Area\_Features(  zipcode NUMBER(5) PRIMARY KEY,  number\_of\_restaurants NUMBER(5),  number\_of\_schools NUMBER(5),  number\_of\_marketplaces NUMBER(5),  crime\_rate FLOAT(5)  ); |
| **Description:**  This table maintains the features of an area characterized by its zip-code. It represents the Area Features Entity. |

**8. Query Searched**

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| **Relational Schema:**  Query\_Searched(  **reg\_usr\_id**: integer,  **property\_id**: integer,  query\_count: integer  ) |
| **Query:**  create table Query\_Searched(  reg\_usr\_id NUMBER NOT NULL,  property\_id NUMBER NOT NULL,  query\_count NUMBER(5),  FOREIGN KEY (reg\_usr\_id) REFERENCES REGISTERED\_USER(reg\_usr\_id),  FOREIGN KEY (property\_id) REFERENCES PROPERTY(property\_id),  PRIMARY KEY(reg\_usr\_id,property\_id)  ); |
| **Description:**  This table maintains the features of an area characterized by its zip-code. It represents the Query\_Searched Relationship. |