

```
--Necessary DROP Statements provided for convenience.
```

```
DROP TABLE AUTHENTICATE;
```

```
DROP TABLE PROPERTYFEATURE;
```

```
DROP TABLE PROPERTY;
```

```
DROP TABLE TYPE;
```

```
DROP TABLE CLIENT;
```

```
DROP TABLE FEATURE;
```

```
CREATE TABLE AUTHENTICATE
```

```
(  
  AUTH_ID          INTEGER  
    PRIMARY KEY AUTO_INCREMENT,  
  GIVEN_NAME      VARCHAR(50) NOT NULL,  
  FAMILY_NAME     VARCHAR(50) NOT NULL,  
  UNAME           VARCHAR(10) NOT NULL,  
  PWORD           VARCHAR(64) NOT NULL  
)
```

```
ENGINE = INNODB;
```

```
CREATE TABLE CLIENT
```

```
(  
  CLIENT_ID        INTEGER  
    PRIMARY KEY AUTO_INCREMENT,  
  CLIENT_GNAME     VARCHAR(50) NOT NULL,  
  CLIENT_FNAME     VARCHAR(50) NOT NULL,  
  CLIENT_STREET    VARCHAR(100) NOT NULL,  
  CLIENT_SUBURB    VARCHAR(50) NOT NULL,  
  CLIENT_STATE     VARCHAR(6) NOT NULL,  
  CLIENT_PC        VARCHAR(4) NOT NULL,  
  CLIENT_EMAIL     VARCHAR(50) NOT NULL,  
  CLIENT_MOBILE    VARCHAR(12) NOT NULL,  
  CLIENT_MAIL      VARCHAR(1) NOT NULL  
)
```

```
ENGINE = INNODB;
```

```
CREATE TABLE FEATURE
```

```
(
```

```
    PRIMARY KEY AUTO_INCREMENT,
    FEATURE_NAME VARCHAR(30) NOT NULL
)
ENGINE = INNODB;

CREATE TABLE TYPE
(
    TYPE_ID      INTEGER
    PRIMARY KEY AUTO_INCREMENT,
    TYPE_NAME VARCHAR(30) NOT NULL
)
ENGINE = INNODB;

CREATE TABLE PROPERTY
(
    PROPERTY_ID      INTEGER
    PRIMARY KEY AUTO_INCREMENT,
    PROPERTY_STREET VARCHAR(100) NOT NULL,
    PROPERTY_SUBURB VARCHAR(50) NOT NULL,
    PROPERTY_STATE  VARCHAR(5) NOT NULL,
    PROPERTY_PC     VARCHAR(10) NOT NULL,
    PROPERTY_TYPE   INTEGER NOT NULL,
    SELLER_ID       INTEGER NOT NULL,
    LISTING_DATE    DATE NOT NULL,
    LISTING_PRICE   DECIMAL(10,2) NOT NULL,
    SALE_DATE       DATE NULL,
    SALE_PRICE      DECIMAL(10,2) NULL,
    IMAGE_NAME      VARCHAR(40) NULL,
    PROPERTY_DESC   VARCHAR(200) NOT NULL,
    CONSTRAINT PROPERTY_TYPE_TYPE_ID_FK
    FOREIGN KEY (PROPERTY_TYPE) REFERENCES TYPE (TYPE_ID),
    CONSTRAINT PROPERTY__FK2
    FOREIGN KEY (SELLER_ID) REFERENCES CLIENT (CLIENT_ID)
)
ENGINE = INNODB;

CREATE INDEX PROPERTY__FK2
```

```
CREATE INDEX PROPERTY_TYPE_TYPE_ID_FK
  ON PROPERTY (PROPERTY_TYPE);

CREATE TABLE PROPERTYFEATURE
(
  PROPERTY_ID INTEGER,
  FEATURE_ID INTEGER,
  FEATURE_DESC VARCHAR(100) NULL,
  PRIMARY KEY (FEATURE_ID, PROPERTY_ID),
  CONSTRAINT PROPERTYFEATURE_PROPERTY_PROPERTY_ID_FK
  FOREIGN KEY (PROPERTY_ID) REFERENCES PROPERTY (PROPERTY_ID),
  CONSTRAINT PROPERTYFEATURE___FK2
  FOREIGN KEY (FEATURE_ID) REFERENCES FEATURE (FEATURE_ID)
)

ENGINE = INNODB;

CREATE INDEX PROPERTYFEATURE_PROPERTY_PROPERTY_ID_FK
  ON PROPERTYFEATURE (PROPERTY_ID);
```