SQL> REM EXERCISE 8

SQL> START "C:\Users\3122225002028\Documents\ex8"

SQL> SET ECHO ON

SQL>

SQL> REM >>> UNORMALIZED FORM OF Dream House Lease Database <<<

SQL> DROP TABLE dreamhouselease;

Table dropped.

SQL> CREATE TABLE dreamhouselease (

  2   clientNo VARCHAR2(4),

  3   cName VARCHAR2(50),

  4   propertyNo VARCHAR2(4),

  5   pAddress VARCHAR2(50),

  6   rentStart DATE,

  7   rentFinish DATE,

  8   rent NUMBER(5),

  9   ownerNo VARCHAR2(4),

 10   oName VARCHAR2(50)

 11);

Table created.

SQL> INSERT INTO dreamhouselease VALUES('CR76', 'John Kay', 'PG4', '6 Lawrence St, Glasgow', TO_DATE

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR76', 'John Kay', 'PG16', '5 Novar Dr, Glasgow', TO_DATE('

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR56', 'Aline Stewart', 'PG4', '6 Lawrence St, Glasgow', TO

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR56', 'Alaine Stewart', 'PG36', '2 Manor Rd, Glasgow', TO_

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR56', 'Alaine Stewart', 'PG16', '5 Novar Dr, Glasgow', TO_

1 row created.

SQL> SELECT * FROM dreamhouselease;

```
CLIE CNAME                     PROP
---- ------------------------------------------------ ----
PADDRESS                       RENTSTART RENTFINIS
------------------------------------------------ --------- ---------
     RENT OWNE ONAME
---------- ---- ------------------------------------------------
CR76 John Kay                  PG4
6 Lawrence St, Glasgow          01-JUL-12 31-AUG-13
     350 CO40 Tina Murphy
CR76 John Kay                  PG16
5 Novar Dr, Glasgow            01-SEP-13 01-SEP-14
      50 CO93 Tony Shaw

CLIE CNAME                     PROP
---- ------------------------------------------------ ----
PADDRESS                       RENTSTART RENTFINIS
------------------------------------------------ --------- ---------
     RENT OWNE ONAME
---------- ---- ------------------------------------------------

CR56 Aline Stewart             PG4
6 Lawrence St, Glasgow          01-SEP-11 10-JUN-12
     350 CO40 Tina Murphy
CR56 Alaine Stewart            PG36
2 Manor Rd, Glasgow            10-OCT-12 01-DEC-13

CLIE CNAME                     PROP
```

```
---- --------------------------------------------- ----

PADDRESS                             RENTSTART RENTFINIS

----------------------------------------------- --------- ---------

    RENT OWNE ONAME

---------- ---- ----------------------------------------------

    375 CO93 Tony Shaw

CR56 Alaine Stewart                       PG16

5 Novar Dr, Glasgow              01-NOV-14 10-AUG-15

    450 CO93 Tony Shaw
```

SQL> REM >>> NORMALIZED FORM OF Dream House Lease Database <<<

SQL> DROP TABLE client;

Table dropped.

SQL> DROP TABLE rent;

Table dropped.

SQL> DROP TABLE property;

Table dropped.

SQL> DROP TABLE owner;

Table dropped.

SQL>

SQL> CREATE TABLE client(

  2   clientNo VARCHAR2(4),

  3   cName VARCHAR2(50));

Table created.

SQL>

SQL> CREATE TABLE rent(

  2   propertyNo VARCHAR2(4),

  3   clientNo VARCHAR2(4),

  4   rentStart DATE,

  5   rentFinish DATE,

  6   rent NUMBER(5));

Table created.

SQL>

SQL> CREATE TABLE property(

  2   propertyNo VARCHAR2(4),

  3   pAddress VARCHAR2(50),

  4   ownerNo VARCHAR2(4));

Table created.

SQL>

SQL> CREATE TABLE owner(

  2   ownerNo VARCHAR2(4),

  3   oName VARCHAR2(50));

Table created.

SQL>

SQL> INSERT INTO client VALUES('CR76', 'John Kay');

1 row created.

SQL> INSERT INTO client VALUES('CR56', 'Alaine Stewart');

1 row created.

SQL>

SQL> INSERT INTO rent VALUES('PG4', 'CR76', TO_DATE('01-JUL-12','DD-MON-YY'), TO_DATE('31-AUG-13','D

1 row created.

SQL> INSERT INTO rent VALUES('PG16', 'CR76', TO_DATE('01-SEP-13','DD-MON-YY'), TO_DATE('01-SEP-14','

1 row created.

SQL> INSERT INTO rent VALUES('PG4', 'CR56', TO_DATE('01-SEP-11','DD-MON-YY'), TO_DATE('10-JUN-12','D

1 row created.

SQL> INSERT INTO rent VALUES('PG36', 'CR56', TO_DATE('10-OCT-12','DD-MON-YY'), TO_DATE('01-DEC-13','

1 row created.

SQL> INSERT INTO rent VALUES('PG16', 'CR56', TO_DATE('01-NOV-14','DD-MON-YY'), TO_DATE('10-AUG-15','

1 row created.

SQL> INSERT INTO property VALUES('PG4', '6 Lawrence St, Glasgow', 'CO40');

1 row created.

SQL> INSERT INTO property VALUES('PG16', '5 Novar Dr, Glasgow', 'CO93');

1 row created.

SQL> INSERT INTO property VALUES('PG36', '2 Manor Rd, Glasgow', 'CO93');

1 row created.

SQL> INSERT INTO owner VALUES('CO40', 'Tina Murphy');

1 row created.

SQL> INSERT INTO owner VALUES('CO93', 'Tony Shaw');

1 row created.

SQL> SELECT * FROM client;

CLIE CNAME

---- --

CR76 John Kay

CR56 Alaine Stewart

SQL> SELECT * FROM rent;

PROP CLIE RENTSTART RENTFINIS   RENT

---- ---- --------- --------- ----------

PG4 CR76 01-JUL-12 31-AUG-13   350

PG16 CR76 01-SEP-13 01-SEP-14   50

PG4 CR56 01-SEP-11 10-JUN-12   350

PG36 CR56 10-OCT-12 01-DEC-13   375

PG16 CR56 01-NOV-14 10-AUG-15   450

SQL> SELECT * FROM property;

PROP PADDRESS   OWNE

---- -- ----

```
PG4  6 Lawrence St, Glasgow              CO40

PG16 5 Novar Dr, Glasgow                 CO93

PG36 2 Manor Rd, Glasgow                 CO93

SQL> SELECT * FROM owner;

OWNE ONAME

---- -------------------------------------------------

CO40 Tina Murphy

CO93 Tony Shaw
```

SQL> REM EXERCISE 8

SQL> START "C:\Users\3122225002041\Documents\ex8"

SQL> SET ECHO ON

SQL>

SQL> REM >>> UNORMALIZED FORM OF Dream House Lease Database <<<

SQL> DROP TABLE dreamhouselease;

Table dropped.

SQL> CREATE TABLE dreamhouselease (

  2   clientNo VARCHAR2(4),

  3   cName VARCHAR2(50),

  4   propertyNo VARCHAR2(4),

  5   pAddress VARCHAR2(50),

  6   rentStart DATE,

  7   rentFinish DATE,

  8   rent NUMBER(5),

  9   ownerNo VARCHAR2(4),

  10   oName VARCHAR2(50)

  11);

Table created.

SQL> INSERT INTO dreamhouselease VALUES('CR76', 'John Kay', 'PG4', '6 Lawrence St, Glasgow', TO_DATE

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR76', 'John Kay', 'PG16', '5 Novar Dr, Glasgow', TO_DATE('

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR56', 'Aline Stewart', 'PG4', '6 Lawrence St, Glasgow', TO

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR56', 'Alaine Stewart', 'PG36', '2 Manor Rd, Glasgow', TO_

1 row created.

SQL> INSERT INTO dreamhouselease VALUES('CR56', 'Alaine Stewart', 'PG16', '5 Novar Dr, Glasgow', TO_

1 row created.

SQL> SELECT * FROM dreamhouselease;

```
CLIE CNAME                    PROP

---- --------------------------------------------- ----

PADDRESS                      RENTSTART RENTFINIS

------------------------------------------------ --------- ---------

     RENT OWNE ONAME

---------- ---- ------------------------------------------------

CR76 John Kay                 PG4

6 Lawrence St, Glasgow            01-JUL-12 31-AUG-13

     350 CO40 Tina Murphy

CR76 John Kay                 PG16

5 Novar Dr, Glasgow           01-SEP-13 01-SEP-14

     50 CO93 Tony Shaw

CLIE CNAME                    PROP

---- --------------------------------------------- ----

PADDRESS                      RENTSTART RENTFINIS

------------------------------------------------ --------- ---------

     RENT OWNE ONAME

---------- ---- ------------------------------------------------

CR56 Aline Stewart                PG4

6 Lawrence St, Glasgow            01-SEP-11 10-JUN-12

     350 CO40 Tina Murphy

CR56 Alaine Stewart               PG36

2 Manor Rd, Glasgow           10-OCT-12 01-DEC-13
```

```
CLIE CNAME                         PROP

---- ------------------------------------------------- ----

PADDRESS                           RENTSTART RENTFINIS

------------------------------------------------- --------- ---------

    RENT OWNE ONAME

---------- ---- -------------------------------------------------

    375 CO93 Tony Shaw

CR56 Alaine Stewart                     PG16

5 Novar Dr, Glasgow                01-NOV-14 10-AUG-15

    450 CO93 Tony Shaw
```

SQL> REM >>> NORMALIZED FORM OF Dream House Lease Database <<<

SQL> DROP TABLE client;

Table dropped.

SQL> DROP TABLE rent;

Table dropped.

SQL> DROP TABLE property;

Table dropped.

SQL> DROP TABLE owner;

Table dropped.

SQL>

SQL> CREATE TABLE client(

  2   clientNo VARCHAR2(4),

  3   cName VARCHAR2(50));

Table created.

SQL>

SQL> CREATE TABLE rent(

  2   propertyNo VARCHAR2(4),

  3   clientNo VARCHAR2(4),

  4   rentStart DATE,

  5   rentFinish DATE,

```
  6      rent NUMBER(5));
```

Table created.

SQL>

SQL> CREATE TABLE property(

```
  2      propertyNo VARCHAR2(4),

  3      pAddress VARCHAR2(50),

  4      ownerNo VARCHAR2(4));
```

Table created.

SQL>

SQL> CREATE TABLE owner(

```
  2      ownerNo VARCHAR2(4),

  3      oName VARCHAR2(50));
```

Table created.

SQL> INSERT INTO client VALUES('CR76', 'John Kay');

1 row created.

SQL> INSERT INTO client VALUES('CR56', 'Alaine Stewart');

1 row created.

SQL>

SQL> INSERT INTO rent VALUES('PG4', 'CR76', TO_DATE('01-JUL-12','DD-MON-YY'), TO_DATE('31-AUG-13','D

1 row created.

SQL> INSERT INTO rent VALUES('PG16', 'CR76', TO_DATE('01-SEP-13','DD-MON-YY'), TO_DATE('01-SEP-14','

1 row created.

SQL> INSERT INTO rent VALUES('PG4', 'CR56', TO_DATE('01-SEP-11','DD-MON-YY'), TO_DATE('10-JUN-12','D

1 row created.

SQL> INSERT INTO rent VALUES('PG36', 'CR56', TO_DATE('10-OCT-12','DD-MON-YY'), TO_DATE('01-DEC-13','

1 row created.

SQL> INSERT INTO rent VALUES('PG16', 'CR56', TO_DATE('01-NOV-14','DD-MON-YY'), TO_DATE('10-AUG-15','

1 row created.

SQL> INSERT INTO property VALUES('PG4', '6 Lawrence St, Glasgow', 'CO40');

1 row created.

SQL> INSERT INTO property VALUES('PG16', '5 Novar Dr, Glasgow', 'CO93');

1 row created.

SQL> INSERT INTO property VALUES('PG36', '2 Manor Rd, Glasgow', 'CO93');

1 row created.

SQL> INSERT INTO owner VALUES('CO40', 'Tina Murphy');

1 row created.

SQL> INSERT INTO owner VALUES('CO93', 'Tony Shaw');

1 row created.

SQL> SELECT * FROM client;

CLIE CNAME

---- ---

CR76 John Kay

CR56 Alaine Stewart

SQL> SELECT * FROM rent;

PROP CLIE RENTSTART RENTFINIS   RENT

---- ---- --------- --------- ----------

PG4 CR76 01-JUL-12 31-AUG-13   350

PG16 CR76 01-SEP-13 01-SEP-14   50

PG4 CR56 01-SEP-11 10-JUN-12   350

PG36 CR56 10-OCT-12 01-DEC-13   375

PG16 CR56 01-NOV-14 10-AUG-15   450

SQL> SELECT * FROM property;

PROP PADDRESS   OWNE

---- --- ----

```
PG4  6 Lawrence St, Glasgow                CO40

PG16 5 Novar Dr, Glasgow                   CO93

PG36 2 Manor Rd, Glasgow                   CO93

SQL> SELECT * FROM owner;

OWNE ONAME

---- ------------------------------------------------

CO40 Tina Murphy

CO93 Tony Shaw
```