Drop table Property Cascade Constraints;

Drop table Renter Cascade Constraints;

Drop table Renting Cascade Constraints;

Create Table Property (

Pno Number(4) Not Null,

Street Char(14),

City Char(10),

Zip Char(8),

Rooms Number(3),

Rent Number(5,2),

Primary Key(Pno)

);

Create Table Renter (

Rno Number(4) Not Null,

FName Char(10),

LName Char(10),

Address Char(40),

Max\_Rent Number(5,2),

Primary key (Rno)

);

Create Table Renting (

Pno Number(4) Not Null,

Rno Number(4) Not Null,

Rent\_Start Date,

Rent\_End Date,

Primary key (Pno, Rno, Rent\_Start),

Foreign Key(Pno) references Property,

Foreign Key(Rno) references Renter);

Insert into Property values (1,'16 Holhead','Dee','Aberdeen',6,650);

Insert into Property values (2,'6 Argyll St','Kilburn','London',4,400);

Insert into Property values (3,'6 Lawrence St','Partick','Glasgow',3,350);

Insert into Property values (4,'2 Manor Rd',NULL,'Glasgow',3,375);

Insert into Property values (5,'18 Dale Rd','Hyndland','Glasgow',5,600);

Insert into Property values (6,'5 Novar Dr','Hyndland','Glasgow',4,450);

Insert into Renter values(1,'John','Kay','56 High St, Putney, London',425);

Insert into Renter values(2,'Aline','Stewart','64 Fern Dr, Pollock, Glasgow',450);

Insert into Renter values(3,'Mike','Ritchie','18 Tain St, Gourock',750);

Insert into Renter values(4,'Mary','Treager','5 Tarbot Rd, Kildary, Agerdeen',600);

Insert into Renting values(1,4,'01-JAN-2005','30-DEC-2006');

Insert into Renting values(2,1,'01-FEB-2005','30-JUL-2006');

Insert into Renting values(3,2,'15-JAN-2006','30-DEC-2007');

Insert into Renting values(4,2,'01-JAN-2004','30-DEC-2006');

Insert into Renting values(1,3,'06-JUN-2007',NULL);

Insert into Renting values(3,4,'01-JAN-2007','30-DEC-2007');

Insert into Renting values(4,1,'01-JAN-2008',NULL);

Insert into Renting values(5,2,'01-MAR-2007',NULL);

Insert into Renting values(6,4,'01-JUL-2008','15-OCT-2010');

Insert into Renting values(6,3,'01-NOV-2010',NULL);

/\* Part a \*/

Insert into Property values (7,'550 Castle M','Hyndland','Glasgow',5,800);

Insert into Property values (8,'420 N Fess','Hyndland','Glasgow',4,600);

Insert into Renter values(5,'Phil','Lapid','32 Main St',900);

Insert into Renter values(6,'Jeff','Zhao','50 Madison Avenue',500);

Insert into Renting values(7,5,'01-JUL-2010', NULL);

Insert into Renting values(8,6,'01-NOV-2010', '01-JAN-2011');

COMMIT;

/\* Part b \*/

Select Property.PNO AS Property\_No, Property.RENT AS Rent, Renter.FNAME AS First, Renter.LNAME AS LAST

FROM Renter

JOIN Renting ON Renter.RNO = Renting.RNO

JOIN Property ON Renting.PNO = Property.PNO

WHERE Renting.RENT\_START BETWEEN '31-DEC-2009' and '01-JAN-2011'

OR

Renting.RENT\_END BETWEEN '31-DEC-2009' and '01-JAN-2011'

OR

Renting.RENT\_END IS NULL;

/\* Part c \*/

SELECT /\*Property.PNO as PNO, Property.STREET as st,\*/

Renter.RNO, Renter.FNAME as First, Renter.LName as last,

Renting.RENT\_START as Start\_date, Renting.RENT\_END as End\_date

FROM Property

JOIN Renting ON Property.PNO = Renting.PNO

JOIN Renter ON Renting.RNO = Renter.RNO

WHERE Renting.RENT\_END IS NULL;

/\* Part d \*/

SELECT COUNT(Renting.PNO)

FROM Property

join Renting on Property.PNO = Renting.PNO

Where Property.STREET = '2 Manor Rd';

/\* Part E \*/

SELECT Renter.FNAME as first, Renter.LNAME as Last,

Renter.ADDReSS as Address, COUNT(Renting.RNO) as Rent\_count

FROM Renter

JOIN Renting ON Renter.RNO = Renting.RNO

GROUP BY Renter.FNAME, Renter.LNAME, Renter.ADDRESS;

/\* Part F \*/

SELECT Property.STREET, SUM(Property.RENT \* ROUND(MONTHS\_BETWEEN(Renting.RENT\_END, Renting.RENT\_START),0)) as Total\_Revenue

FROM Property

join Renting on Property.Pno = Renting.PNO

WHERE Renting.RENT\_END IS NOT NULL

GROUP BY Property.STREET;

SELECT SUM(Property.RENT \* ROUND(MONTHS\_BETWEEN(Renting.RENT\_END, Renting.RENT\_START),0)) as GRAND\_Total\_Revenue

FROM Property

join Renting on Property.Pno = Renting.PNO

WHERE Renting.RENT\_END IS NOT NULL;