--Q1

Select Top 1 DATEDIFF(month,move\_in\_date,move\_out\_date) AS Dated,p.profile\_id,p.first\_name,p.last\_name,p.phone

From Tenancy\_histories as th

LEFT JOIN

Profiles as p

ON

p.profile\_id=th.profile\_id

where DATEDIFF(month,move\_in\_date,move\_out\_date) IS NOT NULL

Order by DATEDIFF(month,move\_in\_date,move\_out\_date) DESC;

--Q2

Select first\_name,last\_name,email,phone,marital\_status

from Profiles

where marital\_status='Y' and profile\_id IN

(Select profile\_id

From Tenancy\_histories

Where rent>9000)

--Q3

Select a.city,a.house\_id,

th.move\_in\_date,th.move\_out\_date,th.rent,

p.profile\_id,p.first\_name,p.last\_name,p.phone,p.email,

ed.latest\_employer,ed.Occupational\_category,

COUNT(r.referral\_valid) OVER (PARTITION BY "referrer\_id(same as profile id)") AS Referral\_Count

FROM Addresses as a

LEFT JOIN

Tenancy\_histories as th

ON

a.house\_id=th.house\_id

LEFT JOIN

Profiles as p

ON

p.profile\_id=th.profile\_id

LEFT JOIN

Employment\_details as ed

ON

ed.profile\_id=p.profile\_id

LEFT JOIN

Referrals as r

ON

r.[referrer\_id(same as profile id)]=p.profile\_id

WHERE (city='Bangalore' or city='Pune')

AND

(th.move\_out\_date<='2016-01-01')

ORDER BY rent desc;

--Q5

Select a.city,SUM(th.rent) as RentfromCity, COUNT(a.city) as Total\_cities

FROM Addresses as a

LEFT JOIN Tenancy\_histories as th

ON a.house\_id=th.house\_id

Group by a.city

--Total rent generated from all the cities:

--Select SUM(rent) as Total\_rent from Tenancy\_histories ;

--Q6

Create view

vw\_tenant AS

Select th.profile\_id,th.rent,th.move\_in\_date,h.house\_type, h.Beds\_vacant,a.description, a.name,a.city,

a.pincode

From Tenancy\_histories as th

LEFT JOIN

Houses h

ON

h.house\_id=th.house\_id

LEFT JOIN

Addresses as a

ON

a.house\_id=th.house\_id

WHERE (th.move\_in\_date='4/30/2015' OR

th.move\_in\_date between '4/30/2015' and '1/7/2016')

AND

h.Beds\_vacant !=0;

Select \* from vw\_tenant

--Q8

Select p.profile\_id,p.first\_name,p.last\_name,p.phone,th.rent,

IIF(th.rent>10000,'A',IIF(th.rent BETWEEn 7500 and 10000,'B','C')) AS 'Customer Segment'

From Profiles as p

LEFT JOIN

Tenancy\_histories as th

ON

p.profile\_id=th.profile\_id

--Q9

Select p.profile\_id,p.first\_name,p.last\_name,p.email,p.phone,

r.referral\_valid,

th.house\_id,

h.house\_type,h.bhk\_details,h.bed\_count,h.furnishing\_type,h.Beds\_vacant,

a.city

FROM Profiles as p

LEFT JOIN Referrals as r

ON

p.profile\_id=r.[referrer\_id(same as profile id)]

LEFT JOIN Tenancy\_histories as th

ON

th.profile\_id=p.profile\_id

LEFT JOIN Houses as h

ON

th.house\_id=h.house\_id

LEFT JOIN Addresses as a

ON

a.house\_id=th.house\_id

WHERE r.referral\_valid IS NULL;

--Q10

Select TOP 1 h.bed\_count,h.house\_type,h.bhk\_details,h.furnishing\_type,h.house\_id,

a.name,a.description,a.city,a.pincode

from Houses as h

LEFT JOIN

Addresses as a

ON

h.house\_id=a.house\_id

order by h.bed\_count DESC;

--Q7

Select "referrer\_id(same as profile id)",valid\_till,COUNT(referral\_valid) OVER(Partition by "referrer\_id(same as profile id)")

AS Count\_Ref\_ID

FROM Referrals

Update Referrals

SET valid\_till=DATEADD(MONTH,1,valid\_till)

WHERE "referrer\_id(same as profile id)"=5