Q.1

select profile\_id, first\_name+' '+ last\_name as 'Full name', phone as 'Contact Number'

from Profiles$

where profile\_id=

(select top 1 profile\_id

from Tenancy\_History

order by DATEDIFF(dd, move\_in\_date, move\_out\_date) desc

);

Q.2

select first\_name+' '+last\_name as 'Full name', email\_id, phone

from Profiles$

where marital\_status='Y'

and profile\_id in

(select profile\_id

from Tenancy\_History

where rent>9000

);

Q.3

select p.profile\_id, p.first\_name+' '+ p.last\_name as 'Full Name', p.phone, p.email\_id, p.city, t.house\_id, t.Move\_In\_Date, t.Move\_Out\_Date, t.rent,count(r.referral\_valid)as 'Total no. of referrals', e.latest\_employer, e.occupational\_category

from Profiles$ p

inner join Tenancy\_History t

on p.profile\_id=t.profile\_id

inner join Referral$ r

on p.profile\_id=r.profile\_id

inner join

Employment\_Details$ e

on p.profile\_id=e.profile\_id

where city='Bangalore' or city='Pune' and Move\_In\_Date>= '01 Jan 2015' and Move\_in\_date<='01 Jan 2015'

and Move\_out\_date>='01 Jan 2016' and Move\_out\_date<='01 Jan 2016'

group by p.profile\_id, p.first\_name, p.last\_name,p.phone, p.email\_id, p.city,t.house\_id,t.Move\_In\_Date,t.Move\_Out\_Date,t.rent, e.latest\_employer,e.occupational\_category

order by rent desc;

Q.4

select p.profile\_id, p.first\_name+''+p.last\_name as fullname, p.email\_id, p.phone, p.referral\_code, r.total\_bonus\_amount

from Profiles$ p

join(

select r.profile\_id, SUM(r.referrer\_bonus\_amount) as total\_bonus\_amount, COUNT(r.profile\_id) as total\_referral

from Referral$ r

where r.referral\_valid=1

group by r.profile\_id

) R

on P.profile\_id=r.profile\_id

where r.total\_referral>1;

Q.5

select p.city as City, SUM(t.rent) as 'Rent of Each City'

from Profiles$ p

inner join Tenancy\_history t

on p.profile\_id = t.profile\_id

group by city

union

select 'Total Rent',sum(rent) from Tenancy\_history;

Q.6

Create or alter view

vw\_tenant

As

select profile\_id,t.rent, t.Move\_In\_Date, h.house\_type, h.beds\_vacant, a.description, a.city

from Tenancy\_History t

join Houses$ h on

t.house\_id=h.house\_id

join Addresses$ a

on t.house\_id=a.house\_id

where move\_in\_date>='2015-04-30 00:00:00.000'

and beds\_vacant>0;

select \* from vw\_tenant;

Q.7

update Referral$

set

valid\_till=DATEADD(dd,30,valid\_till)

where profile\_id in

(select profile\_id

from Referral$

group by profile\_id

having count(profile\_id)>2);

select \* from Referral$;

Q.8

select p.profile\_id, p.first\_name+''+p.last\_name as 'Full name', phone,

iif(t.rent>10000,'A',

iif( t.rent between 7500 and 10000, 'B','C')) as 'Customer Segment'

from Profiles$ p

join Tenancy\_History t

on p.profile\_id=t.profile\_id;

Q.9

SELECT

p.first\_name + ' ' + p.last\_name AS full\_name,

p.phone,

p.city,

h.house\_id,

h.house\_type,

h.bed\_count,

h.furnishing\_type,

h.beds\_vacant,

h.bhk\_type

FROM

Profiles$ p

INNER JOIN

Tenancy\_History t ON p.profile\_id = t.profile\_id

INNER JOIN

Houses$ h ON t.house\_id = h.house\_id

WHERE

p.profile\_id NOT IN (SELECT profile\_id

FROM Referral$);

Q.10

select house\_id, house\_type, bhk\_type, furnishing\_type, bed\_count, beds\_vacant

from Houses$

where (bed\_count-beds\_vacant)=

(

select MAX(bed\_count-beds\_vacant)

from Houses$

);