1) Write a query to get Profile ID, Full Name and Contact Number of the tenant who has stayed

with us for the longest time period in the past.

select top 1 p.profile\_id,concat(p.first\_name,' ',p.last\_name) as 'Full Name',p.phone

from [dbo].[Profiles] p

inner join [dbo].[Tenancy\_histories] th

on p.profile\_id = th.profile\_id

order by datediff(day,[move\_in\_date],[move\_out\_date]) desc

2) Write a query to get the Full name, email id, phone of tenants who are married and paying

rent > 9000 using subqueries.

select concat(p.first\_name,' ',p.last\_name) as 'Full Name',p.email,p.phone

from [dbo].[Profiles] p

where marital\_status = 'Y' and profile\_id in (select profile\_id

from [dbo].[Tenancy\_histories] th

where rent > 9000)

3) Write a query to display profile id, full name, phone, email id, city , house id, move\_in\_date ,

move\_out date, rent, total number of referrals made, latest employer and the occupational

category of all the tenants living in Bangalore or Pune in the time period of jan 2015 to jan

2016 sorted by their rent in descending order.

select p.profile\_id,concat(p.first\_name,' ',p.last\_name) as 'FullName',p.phone,p.email,p.city,th.house\_id,th.move\_in\_date,th.move\_out\_date

,th.rent,ed.latest\_employer,ed.occupational\_category,

count(r.referral\_valid) as TotalReferrals

from [dbo].[Profiles] p

inner join [dbo].[Tenancy\_histories] th

on p.profile\_id = th.profile\_id

inner join [dbo].[Employment\_details] ed

on p.profile\_id = ed.profile\_id

inner join Referrals r

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

where (p.city in ('Bangalore','Pune')) and (th.move\_in\_date>= '2015-01-01' and th.move\_in\_date<= '2016-01-01'

and th.move\_out\_date>= '2015-01-01' and th.move\_out\_date<= '2016-01-01')

group by p.profile\_id,p.first\_name,p.last\_name,p.email,p.phone,p.city,th.house\_id,th.move\_in\_date,th.move\_out\_date

,th.rent,ed.latest\_employer,ed.occupational\_category

order by th.rent desc

4) Write a sql snippet to find the full\_name, email\_id, phone number and referral code of all

the tenants who have referred more than once.

Also find the total bonus amount they should receive given that the bonus gets calculated

only for valid referrals.

select concat(p.first\_name,' ',p.last\_name) as 'Full Name',p.email,p.phone,p.referral\_code

,case when r.referral\_valid =1 then sum(r.referrer\_bonus\_amount)

when r.referral\_valid = 0 then 0

end as 'TotalBonusReferralAmount'

from [dbo].[Profiles] p

inner join [dbo].[Referrals] r

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

group by concat(p.first\_name,' ',p.last\_name),p.email,p.phone,p.referral\_code,r.referral\_valid

having count(p.referral\_code) > 1

5) Write a query to find the rent generated from each city and also the total of all cities.

select city,rent,sum(rent) over (partition by city order by id) as 'rent total by city'

,sum(rent) over (order by id) as 'running sum of rent for all cities'

from [dbo].[Profiles] p

inner join [dbo].[Tenancy\_histories] th

on p.profile\_id = th.profile\_id

6) Create a view 'vw\_tenant' find

profile\_id,rent,move\_in\_date,house\_type,beds\_vacant,description and city of tenants who

shifted on/after 30th april 2015 and are living in houses having vacant beds and its address.

create or alter view vw\_tenant

as

select th.profile\_id,th.rent,th.move\_in\_date,h.house\_type,h.beds\_vacant,a.description,a.city

,concat(a.description,', ',a.name,', ',a.city,', ',a.pincode) as 'Address'

from [dbo].[Tenancy\_histories] th

inner join [dbo].[Houses] h

on th.house\_id = h.house\_id

inner join [dbo].[Addresses] a

on h.house\_id =a.house\_id

where th.move\_in\_date > = '2015-04-30' and h.Beds\_vacant > 0

select \* from vw\_tenant

7) Write a code to extend the valid\_till date for a month of tenants who have referred more

than two times.

update Referrals

set

valid\_till= dateadd(MONTH,1,valid\_till)

where

profile\_id in (

select profile\_id

from

Referrals

group by profile\_id

having(COUNT(referral\_valid) >2));

select r.profile\_id,r.valid\_till

from dbo.Profiles p

inner join Referrals r

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

8) Write a query to get Profile ID, Full Name , Contact Number of the tenants along with a new

column 'Customer Segment' wherein if the tenant pays rent greater than 10000, tenant falls

in Grade A segment, if rent is between 7500 to 10000, tenant falls in Grade B else in Grade C.

select p.profile\_id,concat(p.first\_name,' ',p.last\_name) as 'Full Name',p.phone,

case when th.rent > 10000 then 'Grade A'

when th.rent >= 7500 and th.rent <= 10000 then 'Grade B' else 'Grade C'

end [Customer Segment]

from [dbo].[Profiles] p

inner join [dbo].[Tenancy\_histories] th

on p.profile\_id = th.profile\_id

9) Write a query to get Fullname, Contact, City and House Details of the tenants who have not

referred even once.

select concat(p.first\_name,' ',p.last\_name) as 'Full Name',p.phone,p.city

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

from [dbo].[Profiles] p

inner join [dbo].[Tenancy\_histories] th

on p.profile\_id = th.profile\_id

inner join [dbo].[Houses] h

on h.house\_id = th.house\_id

where p.profile\_id not in (select profile\_id

from [dbo].[Referrals])

10) Write a query to get the house details of the house having highest occupancy.

select h.[house\_id],h.[house\_type],h.[bhk\_details],h.[bed\_count],h.[Beds\_vacant],h.[furnishing\_type],(h.bed\_count-h.Beds\_vacant) Occupancy

from [dbo].[Houses] h

where h.bed\_count-h.Beds\_vacant in (select max(h.bed\_count-h.Beds\_vacant)

from dbo.Houses h)