Solution1.

select profile\_id,first\_name+' '+last\_name as 'full name', phone

from dbo.Profiles

where profile\_id = (select profile\_id

from dbo.Tenancy\_histories

where DATEDIFF(month,[move\_in\_date],[move\_out\_date]) = (select max(DATEDIFF(month,[move\_in\_date],[move\_out\_date])) from dbo.Tenancy\_histories))

Solution2.

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

from dbo.Profiles

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

from dbo.Tenancy\_histories

where rent>9000)

Solution3.

select A.profile\_id,first\_name+' '+last\_name as 'full name', phone, email,[city(hometown)],B.house\_id,B.move\_in\_date,

B.move\_out\_date,B.rent,c.ReferalCount,D.lastest\_employer,D.occupational\_category

from dbo.Profiles A

INNER JOIN dbo.Tenancy\_histories B

on A.profile\_id = B.profile\_id

INNER JOIN

(

SELECT

profile\_id

, COUNT(profile\_id) AS ReferalCount

FROM dbo.Referrals

GROUP BY profile\_id

)C

on A.profile\_id = C.profile\_id

INNER JOIN dbo.Employment\_details D

on A.profile\_id = D.profile\_id

Where A.[city(hometown)]in ('Bangalore','Pune') and B.move\_in\_date BETWEEN '01-01-2015' and '01-01-2016'

ORDER BY B.rent DESC

Solution4.

SELECT C.profile\_id,first\_name+' '+last\_name as fullname, email, phone,referral\_code,TotalBonus

from dbo.Profiles

inner join (

SELECT

profile\_id

, COUNT(profile\_id) AS ReferalCount

FROM dbo.Referrals

GROUP BY profile\_id)C

INNER JOIN(

select profile\_id, SUM(referrer\_bonus\_amount) as TotalBonus

from dbo.Referrals

where referral\_valid=1

GROUP BY profile\_id

)D

ON C.profile\_id = D.profile\_id

on dbo.Profiles.profile\_id = C.profile\_id

where C.ReferalCount > 1

Solution5.

select isnull(B.[city(hometown)],'Grand Total') as 'City',SUM(A.rent) as 'Total Sales'

from dbo.Tenancy\_histories A

inner join dbo.Profiles B

on A.profile\_id = B.profile\_id

group by B.[city(hometown)]

WITH ROLLUP

Solution6.

CREATE VIEW [vw\_tenant]

AS

SELECT A.profile\_id,A.rent,A.move\_in\_date,B.house\_type,B.beds\_vacant,C.name,C.description,C.city

from dbo.Tenancy\_histories A

inner join dbo.Houses B

on A.house\_id = B.house\_id

inner join dbo.Addresses C

on B.house\_id = C.house\_id

WHERE A.move\_in\_date >= '2015-04-30' and B.beds\_vacant>0

GO

SELECT \* from vw\_tenant

Solution7.

SELECT profile\_id,valid\_till,(dateadd(day, 30, valid\_till)) AS Extended\_valid\_till

from dbo.Referrals

where profile\_id = (SELECT profile\_id

from dbo.Referrals

GROUP BY profile\_id

HAVING count(profile\_id)>2)

Solution8.

SELECT A.profile\_id,A.first\_name+' '+A.last\_name as 'full name', A.phone,B.rent,IIF(B.rent>10000,'Grade A',IIF(B.rent>=7500 and B.rent<=10000,'Grade B','Grade C')) AS 'Customer Segment'

FROM dbo.Profiles A

INNER JOIN dbo.Tenancy\_histories B

ON A.profile\_id=B.profile\_id

Solution9.

SELECT A.profile\_id,A.first\_name+' '+A.last\_name as 'full name', A.phone,A.[city(hometown)],B.bed\_type,C.house\_type,

C.furnishing\_type,C.bhk\_details,C.bed\_count,C.beds\_vacant

from dbo.Profiles A

INNER JOIN dbo.Tenancy\_histories B

ON A.profile\_id=B.profile\_id

INNER JOIN dbo.Houses C

ON B.house\_id=C.house\_id

WHERE NOT A.profile\_id in

(

SELECT profile\_id

from dbo.Referrals

)

Solution10.

select top (1) with ties A.house\_id, A.name,A.description,

B.house\_type, B.furnishing\_type, (B.bed\_count - B.Beds\_vacant) AS Total\_Occupacy

from dbo.Addresses A

INNER JOIN DBO.Houses B ON

A.house\_id= B.house\_id

ORDER BY Total\_Occupacy DESC