create table Profiles

(

profile\_id int not null primary key ,

first\_name varchar(255) null ,

last\_name varchar(255) null ,

email varchar(255) not null ,

phone varchar(255) not null ,

[city(hometown)] varchar(255) null ,

pan\_card varchar(255) null ,

created\_at date not null ,

gender varchar(255) not null ,

referral\_code varchar(255) null ,

marital\_status varchar(255) null

);

create table Houses

(

house\_id int not null primary key,

house\_type varchar(255) null ,

bhk\_details varchar(255) null ,

bed\_count int not null ,

furnishing\_type varchar(255) null ,

Beds\_vacant int not null

);

create table Tenancy\_histories

(

id int not null primary key ,

profile\_id int NOT NULL references Profiles(profile\_id),

house\_id int not null references Houses(house\_id),

move\_in\_date date not null,

move\_out\_date date null,

rent int not null,

Bed\_type varchar(255) null,

move\_out\_reason varchar(255) null

);

create table Addresses

(

ad\_id int not null primary key,

name varchar(255) null ,

description text null ,

pincode int null ,

city varchar(255) null ,

house\_id int not null references Houses(house\_id),

);

create table Referrals

(

ref\_id int not null primary key,

[referrer\_id(same as profile id)] int NOT NULL ,

referrer\_bonus\_amount float null ,

referral\_valid tinyint null ,

valid\_from date null ,

valid\_till date null,

CONSTRAINT fk\_Profiles\_Referrals FOREIGN KEY([referrer\_id(same as profile id)]) References

Profiles(profile\_id)

);

create table Employment\_details

(

id int not null primary key ,

profile\_id int NOT NULL ,

latest\_employer varchar(255) null ,

official\_mail\_id varchar(255) null ,

yrs\_experience int null ,

Occupational\_category varchar(255) null ,

CONSTRAINT fk\_Profiles\_Employment\_details FOREIGN KEY(profile\_id) References

Profiles(profile\_id)

)

select \* from Profiles

select \* from Houses

select \* from Tenancy\_histories

select \* from Referrals

select \* from Addresses

select \* from Employment\_details

select \* from Profiles

insert into Profiles values( 1 , 'anusha' , 'pariti' , 'anusha.pariti@gmail.com' , 8105987404 , 'Bangalore' , NULL , '4/16/2015' , 'F' , '7L5FZW' , 'Y')

select \* from Profiles

insert into Profiles values(2 , 'Ashish' , 'Singh' , 'ashish.singh@gmail.com' , 9876890463 , 'Bangalore' , NULL , '5/23/2015' , 'M' , 'KF34MF' , 'Y')

insert into Profiles values(3 , 'Bhaskar' , 'maheshwari' , 'bhaskar.mah@gmail.com' , 9801834992 , 'Bangalore' , NULL , '5/1/2015' , 'M' , '5TYSHGF' , 'N')

insert into Profiles values(4 , 'Garima' , 'yadav' , 'garima0191@gmail.com' , 81059237004 , 'Bangalore' , NULL , '10/20/2015' , 'F' , '5G5FQW' , 'N')

insert into Profiles values(5 , 'Tanvi' , 'mann' , 'tanvi.mann1907@gmail.com' , 9178352769 , 'Bangalore' , NULL , '2/16/2015' , 'F' , 'JSH48B' , 'N')

insert into Profiles values(6 , 'Harish' , 'sahai', 'harish294all@gmail.com' , 9876548763 , 'Bangalore' , NULL , '11/11/2015' , 'M' , 'MKGI2W' , 'Y')

insert into Profiles values(7 , 'Kamal' , 'gera' , 'kamal0094@gmail.com' , 8105987404 , 'Bangalore' , NULL , '10/31/2015' , 'M' , 'MK34ER' , 'N' )

insert into Profiles values(8 , 'Tushar' , 'kapoor' , 'tushar.kapoor21@gmail.com' , 8926537154 , 'Pune' , NULL , '12/12/2015' , 'M' , 'KLF12E' , 'N')

insert into Profiles values(9 , 'Shivshankar' , 'das' , 'sankar.shiva730@gmail.com' , 9801834992 , 'Pune' , NULL , '10/6/2015' , 'M' , '3RE5TY' , 'Y')

insert into Profiles values(10 , 'Aditi' , 'jain' , 'aditi.jain@sproxil.com' , 9873123456 , 'Pune' , NULL , '6/11/2015' , 'F' , '5TPL4E' , 'N' )

insert into Profiles values(11 , 'Deepa' , 'sudhakar' , 'sudhakar.deepa@gmail.com' , 7896785432 , 'Pune' , NULL , '9/15/2015' , 'F' , '4RTYUIO' , 'Y' )

insert into Profiles values(12 , 'Umang' , 'parejiya' , 'uparejiya@gmail.com' , 7896543674 , 'Pune' , NULL , '7/18/2015' , 'M' , '6TY4WE' , 'N' )

insert into Profiles values(13 , 'Mitali' , 'gupta' , 'mitali.gupta80@gmail.com' , 8796751238 , 'Pune' , NULL , '3/24/2015' , 'F' , '5RTYU3' , 'Y')

insert into Profiles values(14 , 'Manisha' , 'Yadav' , 'maniyadav88@gmail.com' , 9867845182 , 'Delhi' , NULL , '1/27/2015' , 'F' , 'LKGHY6' , 'N')

insert into Profiles values(15 , 'Shivani' , 'godha' , 'shivani\_go@nid.edu' , 9878673428 , 'Delhi' , NULL , '2/19/2015' , 'F' , '8NM4R' , 'Y')

insert into Profiles values(16 , 'Rajan' , 'pandey' , 'raajanpandey@gmail.com' , 8987647811 , 'Delhi' , NULL , '9/4/2015' , 'M' , '5TYUIO' , 'N')

insert into Profiles values(17 , 'Roosena' , 'manuel' , 'roseenasimimanuel@gmail.com' , 9875623345 , 'Delhi' , NULL , '4/13/2015' , 'F' , '6TYHU' , 'Y')

insert into Profiles values(18 , 'Prabhjot' , 'gill' , 'prabhjotgill09@gmail.com' , 9800786688 , 'Delhi' , NULL , '12/30/2015' , 'M' , 'GHJK34' , 'N' )

insert into Profiles values(19 , 'Ankita' , 'sharma' , 'ankita.anku96@gmail.com' , 9988789656 , 'Delhi' , NULL , '8/17/2015' , 'F' , 'TH67TY' , 'Y')

insert into Profiles values(20 , 'Karan' , 'Singh' , 'karan.singh@gmail.com' , 8976665768 , 'Delhi' , NULL , '9/15/2015' , 'M' , 'LRF34F' , 'N')

select \* from Profiles

select \* from Houses

select \* from Houses

insert into Houses values(1 , 'Apartment' , '3 BHK' , 5 , 'unfurnished' , 2 )

insert into Houses values(2 , 'Apartment' , '3 BHK' , 3 , 'unfurnished' , 1)

insert into Houses values(3 , 'Apartment' , '3 BHK' , 6 , 'fully-furnished' , 4 )

insert into Houses values(4 , 'Apartment' , '2 BHK' , 2 , 'fully-furnished' , 0)

insert into Houses values(5 , 'Independent' , '4 BHK' , 4 , 'fully-furnished' , 2)

select \* from Houses

insert into Houses values(6 , 'Apartment' , '3 BHK' , 3 , 'semifurnished' , 1)

insert into Houses values(7 , 'Apartment' , '3 BHK' , 3 , 'semifurnished' , 0)

insert into Houses values(8 , 'Apartment' , '2 BHK' , 4 , 'fully-furnished' , 1)

insert into Houses values(9 , 'Independent' , '1 BHK' , 2 , 'unfurnished' , 0)

insert into Houses values(10 , 'Independent' , '3 BHK' , 3 , 'fully-furnished' , 1 )

insert into Houses values(11 , 'Apartment' , '1 BHK' , 1 , 'unfurnished' , 0)

insert into Houses values(12 , 'Independent' , '1 BHK' , 2 , 'unfurnished' , 1)

insert into Houses values(13 , 'Independent' , '2 BHK' , 4 , 'unfurnished' , 2)

insert into Houses values(14 , 'Apartment' , '3 BHK' , 3 , 'fully-furnished' , 0)

insert into Houses values(15 , 'Independent' , '1 BHK' , 2 , 'unfurnished' , 1)

insert into Houses values(16 , 'Apartment' , '3 BHK' , 3 , 'fully-furnished' , 0)

insert into Houses values(17 , 'Independent' , '3 BHK' , 3 , 'fully-furnished' , 1 )

insert into Houses values(18 , 'Independent' , '2 BHK' , 2 , 'fully-furnished' , 1)

insert into Houses values(19 , 'Independent' , '3 BHK' , 3 , 'fully-furnished' , 1)

insert into Houses values(20 , 'Independent' , '1 BHK' , 2 , 'unfurnished' , 2)

select \* from Houses

select \* from Addresses

insert into Addresses values(2 , 'Zaanz appartment' , 'Sterling BrookSide, Opp. Kundalahalli Colony, ITPL Main Rd' , 560037 , 'bangalore' , 1)

select \* from Addresses

insert into Addresses values(3 , 'stag saptgiri' , 'No.44,Ground floor,20th cross,Sector 2 HSR Layout,Bangalore.' , 560102 , 'bangalore' , 2)

insert into Addresses values(4 , 'sri sai enclave' , 'No.44,First floor,20th cross,Sector 2 HSR Layout.' , 560102 , 'bangalore' , 3)

insert into Addresses values(5 , 'orchids building' , 'D-208, Balaji Pristine Whitefield Main Road' , 560066 , 'bangalore' , 4)

insert into Addresses values(6 , 'Fella homes' , '#11,Annaiya Reddy Rd, Narayana Reddy Layout,Phase 2, Electronic City' , 560100 , 'bangalore' , 5)

insert into Addresses values(7 , 'Juniper appartments' , '# 595/1, 1st Floor,1st A main, Domlur Layout' , 560038 , 'bangalore' , 6 )

insert into Addresses values(8 , 'UDB Building' , 'Flat No: T1 Deccan Field Appartment Kunadanhalli main road' , 560037 , 'bangalore' , 7 )

insert into Addresses values(9 , 'Apoorva society' , 'Flat No-202, Apoorva Apartment No-296 Vyalikaval House Building Cooperative Society Ltd Nagavara' , 561202 , 'Delhi' , 8)

insert into Addresses values(10 , 'Stag saptgiri' , 'Flat No-202, stag saptgiri No-26 phase2 Cooperative Society' , 560045 , 'Delhi' , 9)

select \* from Addresses

insert into Addresses values(11 , 'VaK Residency' , '302,#473 VAK Residency, B-Block, AECS Layout Kundalahalli,' , 456738 , 'Delhi' ,10)

insert into Addresses values(12 , 'Sunshine hills' , 'Flat no 3, water ville apartment R.galli' , 100234 , 'Delhi' , 11)

insert into Addresses values(13 , 'Sri Sai appartment' , '2nd House, No-80/289, Sri Hari Darshan Nilaya, Ground Floor, Bellandur' , 560107 , 'Delhi' , 12 )

insert into Addresses values(14 , 'Barvika Residency' , 'B105, 1st floor, B block, Barvika Residency' , 5610023 , 'Delhi' , 13)

insert into Addresses values(15 , 'Nestaway building' , '#157, 4th Cross, 1st Main Road, Lower Palace Orchard' , 546783 , 'Delhi' , 14 )

insert into Addresses values(16 , 'Windsor Plaza' , '#301, Windsor Plaza,ITPL' , 560025 , 'Pune' , 15)

insert into Addresses values(17 , 'Indira society' , 'No. 502, Indira Meadows, Arunodaya Colony' , 302017 , 'Pune' , 16)

insert into Addresses values(18 , 'Sri Krishna Society' , 'Flat No-211 Sri Krishna sai enclave, Hoodi village, beside Vivekananda Ashram, Mahadevapura post' , 560048 , 'Pune' , 17)

insert into Addresses values(19 , 'uniworld' , 'D1-1201, Uniworld Garden 2' , 543678 , 'Pune' , 18)

insert into Addresses values(20 , 'Vinayaka residency' , '49, House 1 lathangi 2nd main vinayaka housing layout, RMV 2nd stage bhoopasandra' , 560094 , 'Pune' , 19)

insert into Addresses values(21 , 'Sun city appartments' , 'Majeera Diamond Towers,malad-west' , 5600263 , 'Pune' , 20)

select \* from Addresses

select \* from Employment\_details

insert into Employment\_details values(1 , 1 , 'Sabre' , 'mehdi.hasan@sabre.com' , 1 , 'Working' )

select \* from Employment\_details

insert into Employment\_details values(2 , 2 , 'hindustan unilever' , 'rags.ramgas@gmail.com' , 2 , 'Working' )

insert into Employment\_details values(3 , 3 , 'Technicolor' , 'jigna.thacker@technicolor.com' , 1 , 'Working')

insert into Employment\_details values(4 , 4 , ' ' , ' ' , NULL , 'Student' )

select \* from Employment\_details

insert into Employment\_details values(5 , 5 , 'GE Healthcare' , 'ruchita.save@ge.com' , 3 , 'Working')

insert into Employment\_details values(6 , 6 , 'Aditya birla' , 'shubhi.bajpai@adityabirla.com' , 3 , 'Working')

insert into Employment\_details values(7 , 7 , ' ' , ' ' , NULL , 'Student')

insert into Employment\_details values(8 , 8 , ' ' , ' ' , NULL , 'Student')

insert into Employment\_details values(9 , 9 , ' ' , ' ' , NULL , 'Student')

insert into Employment\_details values(10 , 10 , 'huawei Technologies' , 'gunjan19wadhwa@gmail.com' , 4 , 'Working')

insert into Employment\_details values(11 , 11 , ' ' , ' ' , NULL , 'Student')

insert into Employment\_details values(12 , 12 , 'Centurylink India' , 'PreetInder.Sodhi@centurylink.com' , 2 , 'Working')

insert into Employment\_details values(13 , 13 , 'SAP Labs India' , 'udit.singh@sap.com' , 2 , 'Working')

insert into Employment\_details values(14 , 14 , 'NestAway' , 'deepak@nestaway.com' , 1 , 'Working')

insert into Employment\_details values(15 , 15 , ' ' , ' ' , NULL , 'Student')

insert into Employment\_details values(16 , 16 , ' ' , ' ' , NULL , 'Student')

insert into Employment\_details values(17 , 17 , 'Microsoft' , 't-akmeh@microsoft.com' , 2 , 'Working')

insert into Employment\_details values(18 , 18 , 'Cognizant' , 'bhavranjan.pandey@cognizant.com' , 2 , 'Working')

insert into Employment\_details values(19 , 19 , ' ' , ' ' , NULL , 'Student')

insert into Employment\_details values(20 , 20 , 'Tiny Mogul Games' , 'sanchit@hike.in' , 3 , 'Working')

select \* from Employment\_details

select \* from Referrals

insert into Referrals values(1 , 2 , 2500 , 1 , '7/5/2015' , '9/5/2015' )

select \* from Referrals

insert into Referrals values(2 , 3 , 2500 , 1 , '7/5/2015' , '9/5/2015')

insert into Referrals values(3 , 5 , 1000 , 0 , '12/13/2015' , '2/13/2016')

insert into Referrals values(4 , 6 , 2500 , 0 , '4/25/2016' , '6/24/2016')

insert into Referrals values(5 , 10 , 1000 , 1 , '7/1/2015' , '9/1/2015' )

insert into Referrals values(6 , 12 , 2500 , 1 , '5/12/2015' , '7/12/2015')

insert into Referrals values(7 , 13 , 2500 , 0 , '8/5/2015' , '10/5/2015')

insert into Referrals values(8 , 20 , 1000 , 1 , '2/5/2016' , '4/5/2016' )

insert into Referrals values(9 , 2 , 2500 , 0 , '8/12/2015' , '9/12/2015')

insert into Referrals values(10 , 5 , 1000 , 1 , '2/18/2016' , '4/18/2016')

insert into Referrals values(12 , 20 , 1500 , 1 , '6/19/2016' , '8/19/2016')

insert into Referrals values(13 , 9 , 2500 , 0 , '11/15/2015' , '1/15/2016')

insert into Referrals values(14 , 13 , 1000 , 1 , '2/1/2016' , '4/1/2016')

insert into Referrals values(15 , 5 , 1000 , 1 , '4/25/2016' ,'6/24/2016')

select \* from Referrals

select \* from Tenancy\_histories

insert into Tenancy\_histories values(1 , 1 , 5 , '2/12/2015' , '4/30/2016' , 7500 , 'bed' , 'MOVE\_OUT' )

select \* from Tenancy\_histories

insert into Tenancy\_histories values(2 , 2 , 2 , '6/5/2015' , NULL , 11000 , 'room' , '' )

insert into Tenancy\_histories values(3 , 3 , 4 , '10/28/2015' , '11/28/2016' , 12000 , 'room' , 'RENT\_CHANGE' )

insert into Tenancy\_histories values(4 , 4 , 1 , '4/26/2015' , NULL , 8000 , 'bed' , '' )

insert into Tenancy\_histories values(5 , 5 , 3 , '5/15/2015' , '12/27/2015' , 9000 , 'bed' , 'MOVE\_OUT' )

insert into Tenancy\_histories values(6 , 6 , 8 , '12/25/2015' , NULL , 10200 , 'room' , '' )

insert into Tenancy\_histories values(7 , 7 , 6 , '11/20/2015' , NULL , 6500 , 'bed' , '')

insert into Tenancy\_histories values(8 , 8 , 7 , '11/10/2015' , '12/31/2016' , 7200 , 'bed' , 'MOVE\_OUT')

insert into Tenancy\_histories values(9 , 9 , 9 , '10/15/2015' , NULL , 7500 , 'bed' , ' ')

insert into Tenancy\_histories values(10 , 10 , 10 , '6/20/2015' , NULL , 7500 , 'bed' , '')

select \* from Tenancy\_histories

insert into Tenancy\_histories values(11 , 11 , 19 , '8/29/2015' , '6/14/2016' , 8000 , 'bed' , 'INTERNAL\_TRANSFER' )

insert into Tenancy\_histories values(12 , 12 , 15 , '2/24/2015' , NULL , 11000 , 'room' , '')

insert into Tenancy\_histories values(13 , 13 , 12 , '2/25/2015' , NULL , 12000 , 'room' , '')

insert into Tenancy\_histories values(14 , 14 , 18 , '1/7/2016' , '12/30/2016' , 13500 , 'room' , 'MOVE\_OUT' )

insert into Tenancy\_histories values(15 , 15 , 13 , '4/7/2015' , NULL , 6500 , 'bed' , '')

insert into Tenancy\_histories values(16 , 16 , 17 , '4/23/2015' , NULL , 6500 , 'bed' , '')

select \* from Tenancy\_histories

insert into Tenancy\_histories values(17 , 17 , 14 , '2/10/2015' , NULL , 10500 , 'room' , '')

insert into Tenancy\_histories values(18 , 18 , 16 , '10/16/2015' , '9/4/2016' , 8000 , 'bed' , 'MOVE\_OUT')

insert into Tenancy\_histories values(19 , 19 , 20 , '9/26/2015' , NULL , 7500 , 'bed' , '')

insert into Tenancy\_histories values(20 , 20 , 11 , '9/30/2015' , NULL , 9500 , 'bed' , '')

select \* from Tenancy\_histories

/\*

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 Profiles.profile\_id, CONCAT(Profiles.first\_name,' ',Profiles.last\_name) as FullName,

Profiles.phone from Profiles

inner join Tenancy\_histories

on Profiles.profile\_id=Tenancy\_histories.profile\_id

where Profiles.profile\_id in

(select profile\_id from

(select top(1) datediff(dd, move\_in\_date,move\_out\_date)as a,profile\_id from

Tenancy\_histories) as b)

Select move\_in\_date, move\_out\_date, profile\_id,

[diff\_in\_day]=DATEDIFF(DD,move\_in\_date,move\_out\_date)

from Tenancy\_histories

order by [diff\_in\_day] desc

Select profile\_id as [Profile ID], first\_name+' '+last\_name As [Full Name], phone AS [Contact Number]

from Profiles where profile\_id=1;

/\*

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(Profiles.first\_name,' ',Profiles.last\_name) as FullName, Profiles.email,

Profiles.phone from Profiles

inner join Tenancy\_histories

on Profiles.profile\_id=Tenancy\_histories.profile\_id

where Tenancy\_histories.rent>9000 and Profiles.profile\_id in

(select profile\_id from profiles where marital\_status='Y')

Select first\_name+' '+last\_name As [Full name], email as [email id], phone from Profiles

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

(SELECT profile\_id FROM Tenancy\_histories

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(hometown)], t.house\_id, t.move\_in\_date, t.move\_out\_date, t.rent, e.latest\_employer,

e.Occupational\_category, COALESCE(r.NumberOfrefferals,0) from Tenancy\_histories as t

inner join Profiles as p

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

inner join Employment\_details as e

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

left join(select COUNT(\*) as NumberOfrefferals, [referrer\_id(same as profile id)] from Referrals

where referral\_valid=1

group by [referrer\_id(same as profile id)]) as r

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

where

p.[city(hometown)] in('Bangalore', 'Pune') and

(t.move\_in\_date between '2015-01-01' and '2016-01-31') or

(t.move\_out\_date between '2015-01-01' and '2016-01-31') or

(t.move\_in\_date <= '2015-01-01' and t.move\_out\_date>= '2016-01-31')

order by rent desc

select p.profile\_id, CONCAT(p.first\_name,' ',p.last\_name) as FullName, p.phone, p.email,

p.[city(hometown)], t.house\_id, t.move\_in\_date, t.move\_out\_date, t.rent, e.latest\_employer,

e.Occupational\_category, COALESCE(r.NumberOfrefferals,0) from Tenancy\_histories as t

inner join Profiles as p

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

inner join Employment\_details as e

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

left join(select COUNT(\*) as NumberOfrefferals, [referrer\_id(same as profile id)] from Referrals

where referral\_valid=1

group by [referrer\_id(same as profile id)]) as r

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

where

p.[city(hometown)] in('Bangalore', 'Pune') and

t.move\_in\_date between '01/01/2015' and '01/01/2016'

order by 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 FullName, p.email,

p.phone, r.[referrer\_id(same as profile id)], r.TotalReferralBonus from Profiles as p

inner join (select [referrer\_id(same as profile id)],sum(referrer\_bonus\_amount) as TotalReferralBonus from Referrals

where referral\_valid=1

group by [referrer\_id(same as profile id)]) as r

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

select CONCAT(p.first\_name,' ',p.last\_name) as FullName, p.email,

p.phone, referral\_code , r.[referrer\_id(same as profile id)], r.TotalReferralBonus from Profiles as p

inner join (select [referrer\_id(same as profile id)],sum(referrer\_bonus\_amount) as TotalReferralBonus from Referrals

where referral\_valid=1

group by [referrer\_id(same as profile id)]) as r

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

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

select distinct(p.[city(hometown)]), sum(t.rent) over (partition by [city(hometown)] ) as CityTotalRent,

SUM(rent) over() as TotalRent from Profiles as p

inner join Tenancy\_histories as t

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

Create View [PT\_05] AS

Select p.[city(hometown)] as City, SUM(t.rent) as [Rent for each City]

from

Profiles p

Inner Join

Tenancy\_histories t

On

p.profile\_id = t.profile\_id

Group By p.[city(hometown)]

Select \* from [PT\_05]

Create View [Rent\_Total] AS

Select SUM(rent) as [Rent Total for all Cities] from Tenancy\_histories

Select \* from [Rent\_Total]

Select \* from PT\_05, Rent\_Total

/\*

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 view vw\_tenant2 as

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

from Tenancy\_histories as t

inner join Houses as h

on t.house\_id=h.house\_id

inner join Addresses as a

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

where move\_in\_date>='04/30/2015'

and move\_out\_date is null and

h.beds\_vacant!=0

select \* from vw\_tenant2

/\*

7. Write a code to extend the valid\_till date for a month of tenants who have referred more than two times

\*/

select top(1)

ref\_id,[referrer\_id(same as profile id)],valid\_till,DATEADD(m,1,valid\_till) as extended\_valid\_till from Referrals

where [referrer\_id(same as profile id)] in (select [referrer\_id(same as profile id)] from Referrals

group by [referrer\_id(same as profile id)]

having COUNT(\*) > 2)

order by valid\_till desc

select [referrer\_id(same as profile id)] as referrer\_id,valid\_till,DATEADD(mm,1,valid\_till)AS new\_date

from Referrals where [referrer\_id(same as profile id)] = (select [referrer\_id(same as profile id)] from Referrals group by [referrer\_id(same as profile id)] having COUNT([referrer\_id(same as profile id)])>2)

/\*

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 FullName,

p.phone, iif(t.rent>10000,'Grade A',iif(t.rent<7500,'Grade C', 'Grade B')) as 'Customer Segment' from Profiles as p

inner join Tenancy\_histories as t

on t.profile\_id=p.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 FullName,

p.phone, p.[city(hometown)], h.house\_type, h.bhk\_details, h.bed\_count, h.furnishing\_type, h.Beds\_vacant

from Profiles as p

inner join Tenancy\_histories as t

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

inner join Houses as h

on t.house\_id=h.house\_id

where p.profile\_id not in (select [referrer\_id(same as profile id)] from Referrals)

/\*

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

\*/

select \* from Houses where SUBSTRING(bhk\_details,1,1) in(

select top(1) SUBSTRING(bhk\_details,1,1) as occupancy from Houses order by bhk\_details desc)

select h.house\_id , house\_type,bhk\_details,bed\_count,furnishing\_type,Beds\_vacant,occupancy from Houses as h

inner join(select top (5) house\_id , max(bed\_count-Beds\_vacant) as occupancy from Houses

group by(house\_id) order by max(bed\_count-Beds\_vacant)desc)

maxvct

on h.house\_id=maxvct.house\_id

select house\_id , max(bed\_count-Beds\_vacant) as occupancy from Houses

group by(house\_id) order by max(bed\_count-Beds\_vacant)desc