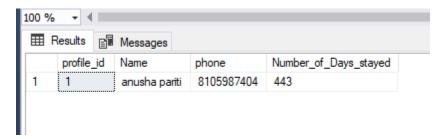
1. Write a query to get Profile ID, Full Name and Contact Number of the tenant who has stayed with us for the longest time period in the past

Query

Output



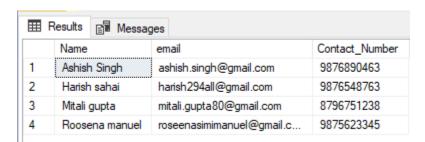
2. Write a query to get the Full name, email id, phone of tenants who are married and paying rent > 9000 using subqueries

Query

```
select (first_name+''+last_name)as Name,email,phone as Contact_Number
from Profiles

where marital_status='Y' and profile_id in(select profile_id from Tenancy_histories where rent>9000)
```

Output



 $3.Write\ a\ query\ to\ display\ profile\ id,\ full\ name,\ phone,\ email\ id,\ city\ ,\ house\ id,\ move_in_date\ ,\ move_out\ date,\ rent,\ total\ number\ of\ referrals\ made,\ latest\ employer\ and\ the\ occupational\ category\ of\ all\ the\ tenants\ living\ in\ Bangalore\ or\ Pune\ in\ the\ time\ period\ of\ jan2015\ to\ jan\ 2016\ sorted\ by\ their\ rent\ in\ descending\ order$

Ouerv

```
select distinct(PR.profile_id),(PR.first_name+' '+PR.last_name) as
Name, PR. phone, PR. email, PR. city, HS. house_id, TH. move_in_date, TH. move_out_date, TH. rent, ER. latest_
employer,ER.occupational_catagory,(select count(ref_id) as Number_of_Referrels
       from Referrals where referrer id=PR.profile id) as Number of referrals
from Profiles PR
inner join
Tenancy histories TH
PR.profile_id=TH.profile_id
inner join
Employment details ER
on PR.profile_id=ER.profile_id
inner join
Houses HS
on
TH.house_id=HS.house_id
inner join
Referrals RE
RE referrer id=PR profile id
where (PR.city='Bangalore' or PR.city='Pune') and (TH.move_in_date >= '2015-01-01' AND
TH.move out date <= '2016-01-01') order by TH.rent desc
```

Output



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.

Query

```
select RE.referrer_id,sum(RE.referrer_bonus_amount) as Bonus,(PR.first_name+' '+PR.last_name)as Name,PR.email,PR.phone from Referrals RE inner join Profiles PR on RE.referrer_id=PR.profile_id
```

```
where RE.referral_valid = 1 group by RE.referrer_id,PR.first_name,PR.last_name,PR.email,PR.phone having count(RE.ref_id)>1
```

Output

	referrer_id	Bonus	Name	email	phone
1	5	2000	Tanvi mann	tanvi.mann1907@gmail.c	9178352769
2	20	2500	Karan Sin	karan.singh@gmail.com	8976665768

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

Query

```
select AD.city,SUM(TH.rent) as Total_Rent
from Addresses AD
inner join
Tenancy_histories TH
on AD.house_id = TH.house_id
group by AD.city
union all
select COALESCE(null, 'Total of all Cities = ') ,sum(rent) from Tenancy_histories
```

Output

	city	Total_Rent
1	bangalore	61200
2	Delhi	63700
3	Pune	54500
4	Total of all Cities =	179400

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.

Query

```
create view vw_tenant
as
select
PR.profile_id,TH.rent,AD.city,TH.move_in_date,HS.house_type,HS.beds_vacant,HS.furnishing_type,PR
.phone,AD.description,AD.name as House_Name
from Profiles PR
inner join
Tenancy_histories TH
on
PR.profile_id=TH.profile_id
inner join
```

Houses HS

on

TH.house_id=HS.house_id inner join Addresses AD on HS.house_id=AD.house_id

where

TH.move_in_date>='2015-04-30' and HS.beds_vacant>0

Output

	profile_id	rent	city	move_in_date	house_type	beds_vacant	fumishing_type	phone	description	House_Name
1	2	11000	bangal	2015-06-05	Apartment	1	unfumished	9876890463	No.44,Ground floor,20th cross,Sector 2 HSR Layout,B	stag saptgiri
2	5	9000	bangal	2015-05-15	Apartment	4	fully-fumished	9178352769	No.44, First floor, 20th cross, Sector 2 HSR Layout.	sri sai enclave
3	6	10200	Delhi	2015-12-25	Apartment	1	fully-fumished	9876548763	Flat No-202, Apoorva Apartment No-296 Vyalikaval H	Apoorva society
4	7	6500	bangal	2015-11-20	Apartment	1	semifumished	8105987404	# 595/1, 1st Floor,1st A main, Domlur Layout	Juniper appartments
5	10	7500	Delhi	2015-06-20	Independent	1	fully-fumished	9873123456	302,#473 VAK Residency, B-Block, AECS Layout Kun	VaK Residency
6	11	8000	Pune	2015-08-29	Independent	1	fully-fumished	7896785432	49, House 1 lathangi 2nd main vinayaka housing layo	Vinayaka residency

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

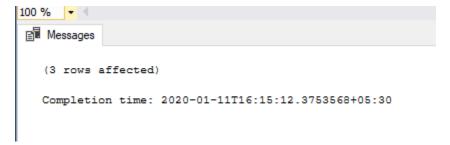
Query

update Referrals

set

valid_till= DATEADD(MM,1,valid_till) where referrer_id in(select referrer_id from Referrals group by referrer_id having count(ref_id)>2)

Output



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

Query

```
\label{eq:control_select_profile_id} select \ PR.profile_id, (PR.first_name+' '+PR.last_name) \ as \ Name, \ PR.phone \ as \ Contact_number, \\ IIF((TH.rent>10000), 'Grade \ A', \ IIF(TH.rent <= 10000 \ and \ TH.rent >= 7500, 'Grade \ B', 'Grade \ C')) as \ Customer_Segment
```

from Profiles PR
inner join
Tenancy_histories TH
on PR.profile_id = TH.profile_id

Output

	profile_id	Name	Contact_number	Customer_Segment
1	1	anusha pariti	8105987404	Grade B
2	2	Ashish Singh	9876890463	Grade A
3	3	Bhaskar maheshw	9801834992	Grade A
4	4	Garima yadav	81059237004	Grade B
5	5	Tanvi mann	9178352769	Grade B
6	6	Harish sahai	9876548763	Grade A
7	7	Kamal gera	8105987404	Grade C
8	8	Tushar kapoor	8926537154	Grade C
9	9	Shivshankar das	9801834992	Grade B
10	10	Aditi jain	9873123456	Grade B
11	11	Deepa sudhakar	7896785432	Grade B

9. Write a query to get Fullname, Contact, City and House Details of the tenants who have not referred even once

Query

select PR.profile_id,(PR.first_name+' '+PR.last_name)as Name,PR.phone as Contact_number,PR.city,HS.*,AD.description,AD.name,AD.pincode from Profiles PR inner join

Tenancy_histories TH on PR.profile_id=TH.profile_id inner join

Houses HS on TH.house_id = HS.house_id inner join

Addresses AD on HS.house_id=AD.house_id where PR.profile_id not in(select referrer_id from Referrals)

OutPut

	profile_id	Name	Contact_number	city	house_id	house_type	bhk_details	bed_count	fumishing_type	beds_vacant	description	name	pincode
1	1	anusha pariti	8105987404	Bangal	5	Independent	4 BHK	4	fully-fumished	2	#11, Annaiya Reddy Rd, Narayana Reddy Layout, Pha	Fella homes	560100
2	4	Garima yadav	81059237004	Bangal	1	Apartment	3 BHK	5	unfumished	2	Sterling BrookSide, Opp. Kundalahalli Colony, ITPL M	Zaanz appartment	560037
3	7	Kamal gera	8105987404	Bangal	6	Apartment	3 BHK	3	semifumished	1	# 595/1, 1st Floor,1st A main, Domlur Layout	Juniper appartments	560038
4	8	Tushar kapoor	8926537154	Pune	7	Apartment	3 BHK	3	semifumished	0	Flat No: T1 Deccan Field Appartment Kunadanhalli ma	UDB Building	560037
5	11	Deepa sudhakar	7896785432	Pune	19	Independent	3 BHK	3	fully-fumished	1	49, House 1 lathangi 2nd main vinayaka housing layo	Vinayaka residency	560094
6	14	Manisha Yadav	9867845182	Delhi	18	Independent	2 BHK	2	fully-fumished	1	D1-1201, Uniworld Garden 2	uniworld	543678
7	15	Shivani godha	9878673428	Delhi	13	Independent	2 BHK	4	unfumished	2	B105, 1st floor, B block, Barvika Residency	Barvika Residency	56100
8	16	Rajan pandey	8987647811	delhi	17	Independent	3 BHK	3	fully-fumished	1	Flat No-211 Sri Krishna sai enclave, Hoodi village, besi	Sri Krishna Society	560048
9	17	Roosena manuel	9875623345	Delhi	14	Apartment	3 BHK	3	fully-fumished	0	#157, 4th Cross, 1st Main Road, Lower Palace Orchard	Nestaway building	546783
10	18	Prabhjot gill	9800786688	Delhi	16	Apartment	3 BHK	3	fully-fumished	0	No. 502, Indira Meadows, Arunodaya Colony	Indira society	302017
11	19	Ankita shama	9988789656	Delhi	20	Independent	1 BHK	2	unfumished	2	Majeera Diamond Towers,malad-west	Sun city appartme	56002

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

Query

```
select top (1) with ties AD.house_id, AD.name , HS.house_type, HS.bhk_details, HS.furnishing_type, (HS.bed_count - HS.Beds_vacant) AS Total_Occupancy from Addresses AD

INNER JOIN Houses HS

ON

AD.house_id= HS.house_id

ORDER BY Total_Occupancy DESC
```

Output

	house_id	name	house_type	bhk_details	fumishing_type	Total_Occupancy
1	1	Zaanz appartment	Apartment	3 BHK	unfumished	3
2	7	UDB Building	Apartment	3 BHK	semifumished	3
3	8	Apoorva society	Apartment	2 BHK	fully-fumished	3
4	14	Nestaway building	Apartment	3 BHK	fully-fumished	3
5	16	Indira society	Apartment	3 BHK	fully-fumished	3