

SQL Project Queries

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Question 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 CONCAT(first_name, ' ', last_name) as "Full Name", phone as Contact ,
datediff( d, move_in_date, move_out_date) as Duration
from Profiles inner join TenancyHistory on Profiles.profile_id =
TenancyHistory.profile_id
where datediff( d, move_in_date, move_out_date) = (select MAX (datediff (d,
move_in_date, move_out_date)) from TenancyHistory)
```

Question 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(first_name, ' ', last_name) as "Full Name", email_id as Email, phone as
Contact from profiles
where ( profiles.profile_id in (select profile_id from TenancyHistory where rent>9000
and Profiles.marital_status = 'Y'))
```

Question 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 Profiles.profile_id, concat(first_name, ' ', last_name) as 'Full Name',
email_id as EMAIL, phone, city, house_id, move_in_date, move_out_date, rent,
latest_employer, occupational_category, count(Referral.profile_id) as 'Total Referral
Made'
from PROJECT.dbo.Profiles
inner join PROJECT.dbo.TenancyHistory on Profiles.profile_id =
TenancyHistory.profile_id
inner join PROJECT.dbo.EmploymentStatus on Profiles.profile_id =
EmploymentStatus.profile_id
inner join PROJECT.dbo.Referral on Profiles.profile_id = Referral.profile_id
where (city= 'Bangalore' or city = 'Pune') and
(move_in_date >= CONVERT(DATE, '2015-01-01') and move_in_date<= CONVERT(DATE, ' 2016-
01-01') and
move_out_date>= CONVERT(DATE, '2015-01-01') and move_out_date<= CONVERT(DATE, '2016-
01-01'))
group by Profiles.profile_id, first_name, last_name, email_id, phone, city, house_id,
move_in_date,
move_out_date, rent, latest_employer, occupational_category, Referral.profile_id
order by rent desc
```

Question 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 Referral.profile_id, concat (first_name, ' ', last_name) FullName, email_id as Email ,
phone as Contact , sum(Referral.referral_valid) as 'Total Valid Referrals',
sum(Referral.referral_valid * Referral.referrer_bonus_amount) as 'Bonus Amount',
referral_code from PROJECT.dbo.Profiles inner join PROJECT.dbo.Referral on
Profiles.profile_id = Referral.profile_id
group by
profiles.first_name,
profiles.last_name,
profiles.email_id ,
profiles.phone,
profiles.referral_code,
Referral.profile_id
having (count(Referral.profile_id)>1 )
```

Question 5

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

```
select COALESCE(Profiles.city, 'Total') City , sum(rent) as 'CITY RENT' from
PROJECT.dbo.Profiles
join PROJECT.dbo.TenancyHistory on Profiles.profile_id = TenancyHistory.profile_id
group by city
with rollup
```

Question 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_tenant as
select profile_id,Houses.house_id,
rent,move_in_date,house_type,beds_vacant,name,description , city from
PROJECT.dbo.TenancyHistory
inner join Houses on Houses.house_id = TenancyHistory.house_id
inner join addresses1 on addresses1.house_id = TenancyHistory.house_id
where move_in_date >= '2015-04-30' and beds_vacant >0 and move_out_date is null

select* from vw_tenant
```

Question 7

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

```
update PROJECT.dbo.Referral
set valid_till = DATEADD(DAY, 30, valid_till) where profile_id in
(select profile_id from project.dbo.Referral
group by profile_id
having count(profile_id) >2)

select * from PROJECT.dbo.Referral
group by referrer_bonus_amount, referral_valid, valid_from, valid_till, ID, profile_id
having count(profile_id) > 2
```

Question 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 Profiles.profile_id , concat(first_name, ' ', last_name) as 'Full Name' , phone
as CONTACT , rent,
    IIF (rent > 10000, 'GRADE A', IIF(rent > 7500, 'GRADE B', 'GRADE C')) as 'CUSTOMER
SEGMENT' from PROJECT.dbo.Profiles
INNER Join PROJECT.dbo.TenancyHistory on Profiles.profile_id =
TenancyHistory.profile_id
```

Question 9

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

```
Select Profiles.profile_id , concat(first_name, ' ', last_name) as 'Full Name' , phone
as CONTACT , city , house_type, bhk_type, bed_count,
furnishing_type, beds_vacant from PROJECT.dbo.Profiles
join PROJECT.dbo.Houses on Profiles.profile_id = Houses.house_id
where profile_id NOT IN (select profile_id from PROJECT.dbo.Referral)
```

Question 10

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

```
select Houses.house_id, name, house_type, bhk_type, furnishing_type , (bed_count-
beds_vacant) AS Occupancy from PROJECT.dbo.Houses
join PROJECT.dbo.addresses1 on addresses1.house_id = Houses.house_id
where
    (bed_count-beds_vacant) = ( select MAX(bed_count-beds_vacant) from
PROJECT.dbo.Houses)
```