--1

SELECT

p.profile\_id,

p.first\_name + ' ' + p.last\_name AS full\_name,

p.phone

FROM

profiles p

INNER JOIN

tenants\_history th

ON

p.profile\_id = th.profile\_id

ORDER BY

DATEDIFF(day, th.move\_in\_date, th.move\_out\_date) DESC;

--2)

SELECT

p.first\_name + ' ' + p.last\_name AS full\_name,

p.email,

p.phone

FROM

profiles p

WHERE

p.profile\_id IN (

SELECT

t.profile\_id

FROM

tenants\_history t

WHERE

t.rent > 9000

)

AND p.marital\_status = 'Y';

--3)

SELECT

th.profile\_id,

CONCAT(p.first\_name, ' ', p.last\_name) AS full\_name,

p.phone,

p.email,

p.city,

th.house\_id,

th.move\_in\_date,

th.move\_out\_date,

th.rent,

COUNT(r.ref\_id) AS total\_referrals,

ed.latest\_employer,

ed.Occupational\_category

FROM tenants\_history th

INNER JOIN

profiles p

ON

th.profile\_id = p.profile\_id

LEFT JOIN

referrals r

ON

p.profile\_id = r.referrer\_id

LEFT JOIN

employement\_details ed

ON

p.profile\_id = ed.profile\_id

WHERE

(p.city = 'Bangalore' OR p.city = 'Pune')

AND

(th.move\_in\_date >= '2015-01-01'

AND

th.move\_in\_date <= '2016-01-31')

GROUP BY

th.profile\_id,

p.first\_name,

p.last\_name,

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

ORDER BY

th.rent DESC;

--4)

select

Profiles.profile\_id,

first\_name + ' ' + last\_name as FullName,

email,

phone,

ref\_id,

SUM(CASE WHEN referral\_valid=0 then 0 else referrer\_bonus\_amount end ) as bonus

from Profiles

inner join referrals

on Profiles.profile\_id = referrals.referrer\_id

group by Profiles.profile\_id, first\_name, last\_name,email, phone, ref\_id

having(SUM(referral\_valid) >1)

--5)

select city, SUM(rent) as IndividualRent

from Profiles

inner join tenants\_history

on Profiles.profile\_id = tenants\_history.profile\_id

group by city

union

select 'Total', sum(rent) from tenants\_history

--6)

CREATE VIEW vw\_tenant AS

SELECT TH.profile\_id, TH.rent, TH.move\_in\_date, H.house\_type, H.beds\_vacant, A.description, A.city

FROM tenants\_history TH

INNER JOIN houses H ON TH.house\_id = H.house\_id

INNER JOIN address 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)

UPDATE Referrals

SET valid\_till = DATEADD(month, 1, valid\_till)

WHERE referrer\_id IN (

SELECT referrer\_id

FROM Referrals

GROUP BY referrer\_id

HAVING COUNT(referrer\_id) > 2

);

select \* from referrals

where referrer\_id=5;

--8)

SELECT TH.profile\_id, P.first\_name + ' ' + P.last\_name AS full\_name, P.phone,

CASE

WHEN TH.rent > 10000 THEN 'Grade A'

WHEN TH.rent BETWEEN 7500 AND 10000 THEN 'Grade B'

ELSE 'Grade C'

END AS customer\_segment

FROM tenants\_history TH

JOIN profiles P ON TH.profile\_id = P.profile\_id;

--9)

SELECT

CONCAT(p.first\_name, ' ', p.last\_name) AS full\_name,

p.phone,

p.city,

h.house\_type,

h.beds\_vacant,

a.description

FROM

profiles p

JOIN

tenants\_history th ON p.profile\_id = th.profile\_id

JOIN

houses h ON th.house\_id = h.house\_id

JOIN

address a ON h.house\_id = a.house\_id

LEFT JOIN

referrals r ON p.profile\_id = r.referrer\_id

WHERE

r.ref\_id IS NULL;

--10)

SELECT

h.\*

FROM

houses h

JOIN

(

SELECT

house\_id,

COUNT(\*) AS occupancy

FROM

tenants\_history

GROUP BY

house\_id

HAVING

COUNT(\*) = (

SELECT

MAX(occupancy\_count)

FROM

(

SELECT

house\_id,

COUNT(\*) AS occupancy\_count

FROM

tenants\_history

GROUP BY

house\_id

) AS subquery

)

) AS max\_occupancy ON h.house\_id = max\_occupancy.house\_id;