**Database Setup**

1) **Create a database 'Tenant'**

2) **Create tables with following specifications**

2.1) **Tenancy\_histories**

**Field Type Null Key Default**

id int(11) NO PRI auto\_increment

profile\_id int(11) NO FK

house\_id int(11) NO FK

move\_in\_date date NO

move\_out\_date date YES

rent int(11) NO

Bed\_type varchar(255) YES

move\_out\_reason varchar (255) YES

2.2) **Profiles**

**Field Type Null Key Default**

profile\_id int(11) NO PRI auto\_increment

first\_name varchar(255) YES

last\_name varchar(255) YES

email varchar(255) NO

phone varchar(255) NO

city(hometown) varchar(255) YES

pan\_card varchar(255) YES

created\_at date NO

gender varchar(255) NO

referral\_code varchar(255) YES

marital\_status varchar(255) YES

2.3) **Houses**

**Field Type Null Key Default**

house\_id int(11) NO PRI auto\_increment

house\_type varchar(255) YES

bhk\_details varchar(255) YES

bed\_count int(11) NO

furnishing\_type varchar(255) YES

Beds\_vacant int(11) NO

2.4) **Addresses**

**Field Type Null Key Default**

ad\_id int(11) NO PRI auto\_increment

name varchar(255) YES

description text YES

pincode int(11) YES

city varchar(255) YES

house\_id int(11) NO FK

2.5) **Referrals**

**Field Type Null Key Default**

ref\_id int(11) NO PRI auto\_increment

referrer\_id(same as profile id) int(11) NO FK

referrer\_bonus\_amount float YES

referral\_valid tinyint(1) YES 0/1

valid\_from date YES

valid\_till date YES

2.6) **Employment\_details**

**Field Type Null Key Default**

id int(11) NO PRI auto\_increment

profile\_id int(11) NO FK

latest\_employer varchar(255) YES

official\_mail\_id varchar(255) YES

yrs\_experience int(11) YES

Occupational\_category varchar(255) YES

3) **Database diagram**

4) **Data to be inserted in given details is provided in form of files**

**S.No 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

2

Write a query to get the Full name, email id, phone of tenants who are married and paying

rent > 9000 using subqueries

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

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.

5

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

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.

7

Write a code to extend the valid\_till date for a month of tenants who have referred more

than two times

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

9

Write a query to get Fullname, Contact, City and House Details of the tenants who have not

referred even once

10

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