PROBLEM STATEMENT

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

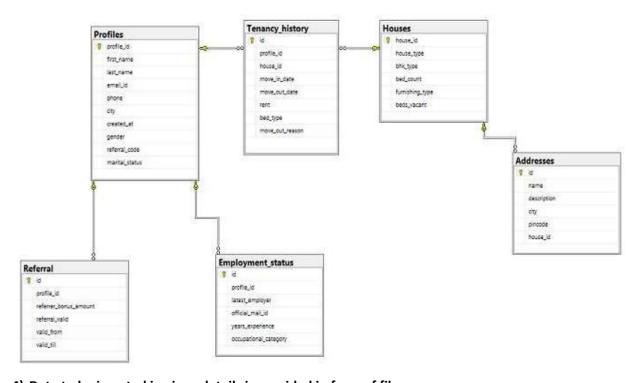|				
ad_id	int(11)	NO	PRI	auto_increment
name	varchar(255)	YES		
description	text	YES		
pincode	int(11)	YES		
city	varchar(255)	YES		
house_id	int(11)	NO	FK	

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

Project Questions to be answered by you and submitted along with outputs in a single document

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