TENANCY _ HISTORIES

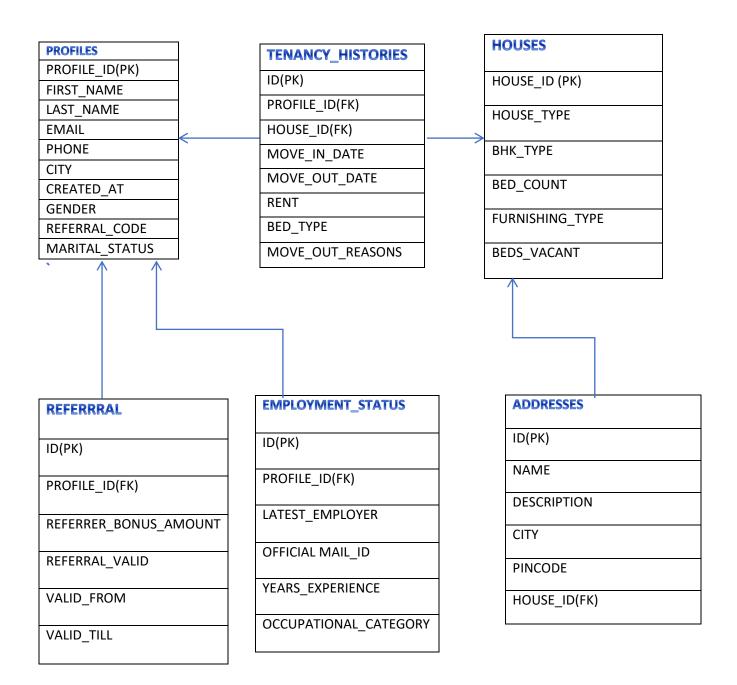
PROJECT-

EMPLOYEMENT SYSTEM

PROJECT ON SQL

NAME – VIVEK NAYAK BATCH – T406 FACULTY INCHARGE – SANDIP JAISWAR

ENTITY RELATIONSHIP DIAGRAM



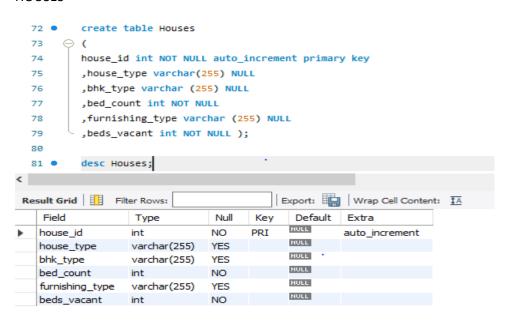
STRUCTURE OF TABLE:

PROFILES

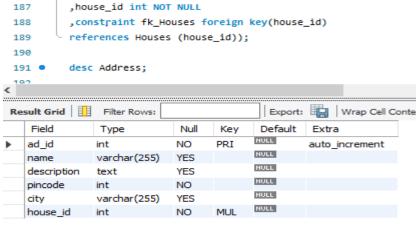
```
21 • 

CREATE TABLE Profiles (
              profile_id int auto_increment NOT NULL PRIMARY KEY,
               first_name varchar(255) NULL,
  23
               last_name varchar(255) NULL,
  24
               email varchar(255) NOT NULL,
  25
               phone varchar(255) NOT NULL,
  26
               city varchar(255) NULL,
  27
               created_at date NOT NULL,
  28
               gender varchar(255) NOT NULL,
  29
               referral_code varchar(255) NULL,
  30
               marital_status varchar(255) NULL);
  31
  32
               desc Profiles;
  33 •
<
Result Grid Filter Rows:
                                             Export: Wrap Cell Content: IA
                                               Default Extra
    Field
                                              NULL
   profile_id
                  int
                                NO
                                       PRI
                                                        auto_increment
                                              NULL
    first_name
                 varchar(255)
                                YES
                                              NULL
    last_name
                  varchar(255)
                                              NULL
                 varchar(255)
                               NO
    email
                                              NULL
    phone
                  varchar(255)
                                NO
                                              NULL
    city
                  varchar(255)
                               YES
                                              NULL
                                NO
    created at
                  date
                                              NULL
    gender
                  varchar(255) NO
                                              NULL
                  varchar(255)
    referral code
                                YES
   marital_status
                  varchar(255) YES
```

HOUSES



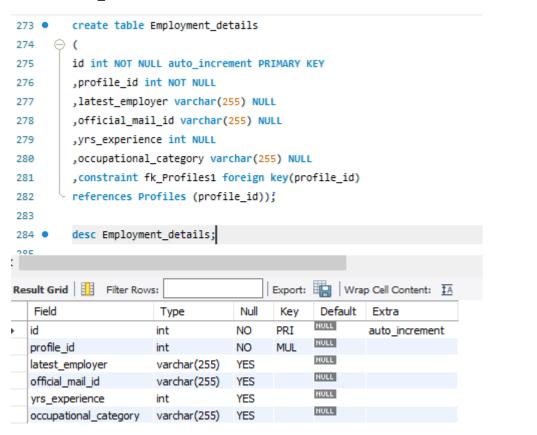
```
TENANCY_HISTORIES:
119 •
          create table Tenancy_histories
120
     \ominus (
          id int NOT NULL auto_increment PRIMARY KEY
121
         ,profile_id int NOT NULL
122
         ,house_id int NOT NULL
123
         ,move_in_date date NOT NULL
124
          ,move_out_date date NULL
125
126
          rent int NOT NULL
127
          ,bed_type varchar(255) NULL
          ,move_out_reason varchar(255) NULL
128
129
          ,constraint fk_Profiles2 foreign key(profile_id) references Profiles (profile_id)
         ,constraint fk Houses1 foreign key(house id) references Houses (house id));
130
131
          desc Tenancy_histories;
132 •
Result Grid | Filter Rows:
                                           Export: Wrap Cell Content: IA
   Field
                                                 Default
                     Type
                                  Null
                                          Key
                                                         Extra
                                                NULL
   id
                                  NO
                                         PRI
                                                         auto_increment
                                               NULL
  profile_id
                    int
                                  NO
                                         MUL
                                               NULL
  house_id
                    int
                                  NO
                                         MUL
                                               NULL
  move_in_date
                    date
                                  NO
                                               NULL
  move_out_date
                    date
                                  YES
                                               NULL
                                  NO
                    int
  rent
                                               NULL
                    varchar(255)
                                  YES
   bed_type
                                               NULL
  move_out_reason varchar(255) YES
ADDRESS:
 180 •
           create table Address
 181
        \ominus (
 182
          ad_id int NOT NULL auto_increment PRIMARY KEY
           ,name varchar (255) NULL
 183
 184
           ,description text NULL
 185
          ,pincode int NOT NULL
 186
           ,city varchar(255) NULL
 187
           ,house_id int NOT NULL
```



REFERRALS:

```
create table Referrals
229
       \Theta (
          ref_id int NOT NULL auto_increment PRIMARY KEY
230
          ,referrer_bonus_amount float NULL
231
          ,referral_valid tinyint NULL
232
          ,valid_from date NULL
233
          ,valid_till date NULL
234
          ,profile_id int NOT NULL
235
          ,constraint fk_Profiles foreign key(profile_id)
236
          references Profiles (profile_id));
237
238
          desc Referrals;
239
Result Grid | | Filter Rows:
                                               Export:
                                                           Wrap Cell Content: ‡A
   Field
                                                   Default
                                                            Extra
                           Type
                                    Null
                                           Key
                                                  NULL
  ref_id
                                           PRI
                           int
                                   NO
                                                            auto_increment
                                                  NULL
  referrer_bonus_amount
                           float
                                   YES
                                                  NULL
  referral_valid
                           tinyint
                                   YES
                                                  NULL
  valid from
                           date
                                   YES
                                                  NULL
  valid_till
                           date
                                   YES
                                                  NULL
  profile_id
                           int
                                   NO
                                           MUL
```

EMPLOYMENT_DETAILS:



INSERT VALUES INTO TABLE:

PROFILES:

```
set dateformat dmy;
```

```
INSERT INTO Profiles ( FIRST_NAME, Last_name, email, phone ,city, created_at, gender , referral_code, marital_status )
values('anusha','pariti','anusha.pariti@gmail.com',8105987404,'Bangalore','16-04-2015','F','7L5FZW','Y'),
('Ashish','Singh','ashish.singh@gmail.com',9876890463,'Bangalore','23-05-2015','M','KF34MF','Y'),
('Bhaskar','maheshwari','bhaskar.mah@gmail.com','9801834992','Bangalore','01-05-2015','M','5TYSHGF','N'),
('Garima','yadav','garima0191@gmail.com',81059237004,'Bangalore','20-10-2015','F','5G5FQW','N'),
('Tanvi', 'mann', 'tanvi.mann1907@gmail.com', 9178352769, 'Bangalore', '16-02-2015', 'F', 'JSH48B', 'N'),
('Harish','sahai','harish294all@gmail.com',9876548763,'Bangalore','11-11-2015','M','MKGI2W','Y'),
('Kamal','gera','kamal0094@gmail.com',8105987404,'Bangalore','31-10-2015','M','MK34ER','N'),
('Tushar','kapoor','tushar.kapoor21@gmail.com',8926537154,'Pune','12-12-2015','M','KLF12E','N'),
('Shivshankar','das','sankar.shiva730@gmail.com','9801834992','Pune','06-10-2015','M','3RE5TY','Y'),
('Aditi','jain','aditi.jain@sproxil.com',9873123456,'Pune','11-06-2015','F','5TPL4E','N'),
('Deepa','sudhakar','sudhakar.deepa@gmail.com',7896785432,'Pune','15-09-2015','F','4RTYUIO','Y'),
('Umang','parejiya','uparejiya@gmail.com',7896543674,'Pune','18-07-2015','M','6TY4WE','N'),
('Mitali', 'gupta', 'mitali.gupta80@gmail.com', 8796751238, 'Pune', '24-03-2015', 'F', '5RTYU3', 'Y'),
('Manisha','Yadav','maniyadav88@gmail.com',9867845182,'Delhi','27-01-2015','F','LKGHY6','N'),
('Shivani','godha','shivani_go@nid.edu','9878673428','Delhi','19-02-2015','F','8NM4R','Y'),
('Rajan','pandey','raajanpandey@gmail.com',8987647811,'delhi','04-09-2015','M','5TYUIO','N'),
('Roosena', 'manuel', 'roseenasimimanuel@gmail.com', 9875623345, 'Delhi', '13-04-2015', 'F', '6TYHU', 'Y'),
('Prabhjot','gill','prabhjotgill09@gmail.com',9800786688,'Delhi','30-12-2015','M','GHJK34','N'),
('Ankita','sharma','ankita.anku96@gmail.com',9988789656,'Delhi','17-08-2015','F','TH67TY','Y'),
('Karan','Singh','karan.singh@gmail.com',8976665768,'Delhi','15-09-2015','M','LRF34F','N');
```

SELECT * FROM PROFILES;

| | fort many | last same | il | | _ia. | | | | |
|------------|-------------|------------|---------------------------|-------------|-----------|------------|--------|---------------|----------------|
| profile_id | first_name | last_name | email | phone | city | created_at | gender | referral_code | marital_status |
| 1 | anusha | pariti | anusha.pariti@gmail.com | 8105987404 | Bangalore | 2015-04-16 | F | 7L5FZW | Y |
| 2 | Ashish | Singh | ashish.singh@gmail.com | 9876890463 | Bangalore | 2015-05-23 | M | KF34MF | Y |
| 3 | Bhaskar | maheshwari | bhaskar.mah@gmail.com | 9801834992 | Bangalore | 2015-05-01 | M | 5TYSHGF | N |
| 4 | Garima | yadav | garima0191@gmail.com | 81059237004 | Bangalore | 2015-10-20 | F | 5G5FQW | N |
| 5 | Tanvi | mann | tanvi.mann1907@gmail.com | 9178352769 | Bangalore | 2015-02-16 | F | JSH48B | N |
| 6 | Harish | sahai | harish294all@gmail.com | 9876548763 | Bangalore | 2015-11-11 | M | MKGI2W | Y |
| 7 | Kamal | gera | kamal0094@gmail.com | 8105987404 | Bangalore | 2015-10-31 | M | MK34ER | N |
| 8 | Tushar | kapoor | tushar.kapoor21@gmail.com | 8926537154 | Pune | 2015-12-12 | M | KLF12E | N |
| 9 | Shivshankar | das | sankar.shiva730@gmail.com | 9801834992 | Pune | 2015-10-06 | M | 3RE5TY | Y |
| 10 | Aditi | jain | aditi.jain@sproxil.com | 9873123456 | Pune | 2015-06-11 | F | 5TPL4E | N |
| 11 | Deepa | sudhakar | sudhakar.deepa@gmail.com | 7896785432 | Pune | 2015-09-15 | F | 4RTYUIO | Y |
| 12 | Umang | parejiya | uparejiya@gmail.com | 7896543674 | Pune | 2015-07-18 | M | 6TY4WE | N |
| 13 | Mitali | gupta | mitali.gupta80@gmail.com | 8796751238 | Pune | 2015-03-24 | F | 5RTYU3 | Υ |
| 14 | Manisha | Yadav | maniyadav88@gmail.com | 9867845182 | Delhi | 2015-01-27 | F | LKGHY6 | N |
| 15 | Shivani | godha | shivani_go@nid.edu | 9878673428 | Delhi | 2015-02-19 | F | 8NM4R | Y |
| 16 | Rajan | pandey | raajanpandey@gmail.com | 8987647811 | delhi | 2015-09-04 | M | 5TYUIO | N |
| 17 | Roosena | manuel | roseenasimimanuel@gmail | 9875623345 | Delhi | 2015-04-13 | F | 6TYHU | Υ |
| 18 | Prabhjot | gill | prabhjotgill09@gmail.com | 9800786688 | Delhi | 2015-12-30 | M | GHJK34 | N |
| 19 | Ankita | sharma | ankita.anku96@gmail.com | 9988789656 | Delhi | 2015-08-17 | F | TH67TY | Υ |
| 20 | Karan | Singh | karan.singh@gmail.com | 8976665768 | Delhi | 2015-09-15 | M | LRF34F | N |

HOUSES:

```
insert into Houses (house_type,bhk_type,bed_count,furnishing_type,beds_vacant)
values ('Apartment','3 BHK',5,'unfurnished',2),
    ('Apartment','3 BHK',3,'unfurnished',1),
    ('Apartment','3 BHK',6,'fully-furnished',4),
    ('Apartment','2 BHK',2,'fully-furnished',0),
    ('Independent','4 BHK',4,'fully-furnished',2),
    ('Apartment','3 BHK',3,'semifurnished',1),
    ('Apartment','3 BHK',3,'semifurnished',0),
    ('Independent','1 BHK',2,'unfurnished',0),
    ('Independent','1 BHK',2,'unfurnished',0),
    ('Independent','1 BHK',1,'unfurnished',0),
    ('Independent','1 BHK',2,'unfurnished',0),
    ('Independent','3 BHK',3,'fully-furnished',0),
    ('Independent','3 BHK',3,'fully-furnished',0),
    ('Independent','3 BHK',3,'fully-furnished',1),
    ('Apartment','3 BHK',3,'fully-furnished',1),
    ('Independent','3 BHK',3,'fully-furnished',1),
    ('Independent','1 BHK',2,'unfurnished',2);
    select * from houses;
```

E Iviessages

| | house_id | house_type | bhk_type | bed_count | furnishing_type | beds_vacant |
|----|----------|-------------|----------|-----------|-----------------|-------------|
| 1 | 1 | Apartment | 3 BHK | 5 | unfurnished | 2 |
| 2 | 2 | Apartment | 3 BHK | 3 | unfurnished | 1 |
| 3 | 3 | Apartment | 3 BHK | 6 | fully-furnished | 4 |
| 4 | 4 | Apartment | 2 BHK | 2 | fully-furnished | 0 |
| 5 | 5 | Independent | 4 BHK | 4 | fully-furnished | 2 |
| 6 | 6 | Apartment | 3 BHK | 3 | semifurnished | 1 |
| 7 | 7 | Apartment | 3 BHK | 3 | semifurnished | 0 |
| 8 | 8 | Apartment | 2 BHK | 4 | fully-furnished | 1 |
| 9 | 9 | Independent | 1 BHK | 2 | unfurnished | 0 |
| 10 | 10 | Independent | 3 BHK | 3 | fully-furnished | 1 |
| 11 | 11 | Apartment | 1 BHK | 1 | unfurnished | 0 |
| 12 | 12 | Independent | 1 BHK | 2 | unfurnished | 1 |
| 13 | 13 | Independent | 2 BHK | 4 | unfurnished | 2 |
| 14 | 14 | Apartment | 3 BHK | 3 | fully-furnished | 0 |
| 15 | 15 | Independent | 1 BHK | 2 | unfurnished | 1 |
| 16 | 16 | Apartment | 3 BHK | 3 | fully-furnished | 0 |
| 17 | 17 | Independent | 3 BHK | 3 | fully-furnished | 1 |
| 18 | 18 | Independent | 2 BHK | 2 | fully-furnished | 1 |
| 19 | 19 | Independent | 3 BHK | 3 | fully-furnished | 1 |
| 20 | 20 | Independent | 1 BHK | 2 | unfurnished | 2 |

Tenancy_histories:

| | E- Mc3346 | ,00 | | | | | |
|--------------------|-----------------------|-----------------|--------------|---------------|-------|----------|-------------------|
| id | profile_id | house_id | move_in_date | move_out_date | rent | bed_type | move_out_reason |
| 1 | 1 | 5 | 2015-02-12 | 2016-04-30 | 7500 | bed | MOVE_OUT |
| 2 | 2 | 2 | 2015-06-05 | NULL | 11000 | room | NULL |
| 3 | 3 | 4 | 2015-10-28 | 2016-11-28 | 12000 | room | RENT_CHANGE |
| 4 | 4 | 1 | 2015-04-26 | NULL | 8000 | bed | NULL |
| 5 | 5 | 3 | 2015-05-15 | 2015-12-27 | 9000 | bed | MOVE_OUT |
| 6 | 6 | 8 | 2015-12-25 | NULL | 10200 | room | NULL |
| 7 | 7 | 6 | 2015-11-20 | NULL | 6500 | bed | NULL |
| 8 | 8 | 7 | 2015-11-10 | 2016-12-31 | 7200 | bed | MOVE_OUT |
| 9 | 9 | 9 | 2015-10-15 | NULL | 7500 | bed | NULL |
| 10 | 10 | 10 | 2015-06-20 | NULL | 7500 | bed | NULL |
| 11 | 11 | 19 | 2015-08-29 | 2016-06-14 | 8000 | bed | INTERNAL_TRANSFER |
| 12 | 12 | 15 | 2015-02-24 | NULL | 11000 | room | NULL |
| 13 | 13 | 12 | 2015-02-25 | NULL | 12000 | room | NULL |
| 14 | 14 | 18 | 2016-01-07 | 2016-12-30 | 13500 | room | MOVE_OUT |
| 15 | 15 | 13 | 2015-04-07 | NULL | 6500 | bed | NULL |
| 16 | 16 | 17 | 2015-04-23 | NULL | 6500 | bed | NULL |
| 17 | 17 | 14 | 2015-02-10 | NULL | 10500 | room | NULL |
| :k t 1:8 se | el 18 t the wh | o 16 row | 2015-10-16 | 2016-09-04 | 8000 | bed | MOVE_OUT |
| 19 | 19 | 20 | 2015-09-26 | NULL | 7500 | bed | NULL |
| 20 | 20 | 11 | 2015-09-30 | NULL | 9500 | bed . | NULL |

ADDRESS:

```
select * from Address;
insert into Address (name ,description ,pincode , city ,house_id)
 ('Zaanz appartment', 'Sterling BrookSide, Opp. Kundalahalli Colony, ITPL Main Rd', 560037, 'bangalore', 1),
 ('stag saptgiri','No.44,Ground floor,20th cross,Sector 2 HSR Layout,Bangalore.',560102,'bangalore',2),
('sri sai enclave', 'No.44, First floor, 20th cross, Sector 2 HSR Layout.', 560102, 'bangalore', 3),
('orchids building','D-208, Balaji Pristine Whitefield Main Road',560066,'bangalore',4),
 ('Fella homes', '#11, Annaiya Reddy Rd, Narayana Reddy Layout, Phase 2, Electronic City', 560100 , 'bangalore', 5),
 ('Juniper appartments', '# 595/1, 1st Floor,1st A main, Domlur Layout',560038, 'bangalore',6),
('UDB Building','Flat No: T1 Deccan Field Appartment Kunadanhalli main road',560037,'bangalore',7),
 ('Apoorva society', 'Flat No-202, Apoorva Apartment No-296 Vyalikaval House Building Cooperative Society Ltd Nagavara', 561202, 'Delhi', 8),
 ('Stag saptgiri','Flat No-202, stag saptgiri No-26 phase2 Cooperative Society',560045,'Delhi',9),
 ('VaK Residency','302,#473 VAK Residency, B-Block, AECS Layout,Kundalahalli',456738,'Delhi',10),
 ('Sunshine hills','Flat no 3, water ville apartment R.galli',100234,'Delhi',11),
 ('Sri Sai appartment','2nd House, No-80/289, Sri Hari Darshan Nilaya, Ground Floor, Bellandur',560107,'Delhi',12),
 ('Barvika Residency B105','1st floor, B block, Barvika Residency ',5610023,'Delhi',13),
 ('Nestaway building #157','4th Cross, 1st Main Road, Lower Palace Orchard',546783,'Delhi',14),
 ('Windsor Plaza #301', 'Windsor Plaza, ITPL', 560025, 'Pune', 15),
('Indira society','No. 502, Indira Meadows, Arunodaya Colony',302017,'Pune',16),
('Sri Krishna Society','Flat No-211 Sri Krishna sai enclave, Hoodi village, beside Vivekananda Ashram, Mahadevapura post',560048,'Pune',17),
 ('uniworld D1-1201','Uniworld Garden 2',543678,'Pune',18),
 ('Vinayaka residency','49, House 1 lathangi 2nd main vinayaka housing layout, RMV 2nd stage bhoopasandra',560094,'Pune',19),
('Sun city appartments', 'Majeera Diamond Towers, malad-west', 5600263, 'Pune', 20);
select * from Address;
```

| results | Bill | Messages |
|---------|------|----------|
| | | moodagoo |

| | • | | | | |
|-------|---------------------|---|---------|-----------|----------|
| ad_id | name | description | pincode | city | house_id |
| 2 | Zaanz appartment | Sterling BrookSide, Opp. Kundalahalli Colony, ITPL M | 560037 | bangalore | 1 |
| 3 | stag saptgiri | No.44, Ground floor, 20th cross, Sector 2 HSR Layout, B | 560102 | bangalore | 2 |
| 4 | sri sai enclave | No.44, First floor, 20th cross, Sector 2 HSR Layout. | 560102 | bangalore | 3 |
| 5 | orchids building | D-208, Balaji Pristine Whitefield Main Road | 560066 | bangalore | 4 |
| 6 | Fella homes | #11,Annaiya Reddy Rd, Narayana Reddy Layout,Pha | 560100 | bangalore | 5 |
| 7 | Juniper appartments | # 595/1, 1st Floor,1st A main, Domlur Layout | 560038 | bangalore | 6 |
| 8 | UDB Building | Flat No: T1 Deccan Field Appartment Kunadanhalli ma | 560037 | bangalore | 7 |
| 9 | Apoorva society | Flat No-202, Apoorva Apartment No-296 Vyalikaval H | 561202 | Delhi | 8 |
| 10 | Stag saptgiri | Flat No-202, stag saptgiri No-26 phase2 Cooperative | 560045 | Delhi | 9 |
| 11 | VaK Residency | 302,#473 VAK Residency, B-Block, AECS Layout,Kun | 456738 | Delhi | 10 |
| 12 | Sunshine hills | Flat no 3, water ville apartment R.galli | 100234 | Delhi | 11 |
| 13 | Sri Sai appartment | 2nd House, No-80/289, Sri Hari Darshan Nilaya, Grou | 560107 | Delhi | 12 |
| 14 | Barvika Residency | 1st floor, B block, Barvika Residency | 5610 | Delhi | 13 |
| 15 | Nestaway building | 4th Cross, 1st Main Road, Lower Palace Orchard | 546783 | Delhi | 14 |
| 16 | Windsor Plaza #301 | Windsor Plaza,ITPL | 560025 | Pune | 15 |
| 17 | Indira society | No. 502, Indira Meadows, Arunodaya Colony | 302017 | Pune | 16 |
| 18 | Sri Krishna Society | Flat No-211 Sri Krishna sai enclave, Hoodi village, bes | 560048 | Pune | 17 |
| 19 | uniworld D1-1201 | Uniworld Garden 2 | 543678 | Pune | 18 |
| 20 | Vinayaka residency | 49, House 1 lathangi 2nd main vinayaka housing layo | 560094 | Pune | 19 |
| 21 | Sun city appartme | Majeera Diamond Towers, malad-west | 5600 | Pune | 20 |
| | | | | | |

REFERRAL:

```
set DATEFORMAT dmy;
insert into Referrals (referrer_bonus_amount ,referral_valid ,valid_from , valid_till ,profile_id j
 (2500,1,'05-07-2015','05-09-2015',2),
 (2500,1,'05-07-2015','05-09-2015',3),
 (1000,0,'13-12-2015','13-02-2016',5),
 (2500,0,'25-04-2016','24-06-2016',6),
 (1000,1,'01-07-2015','01-09-2015',10),
 (2500,1,'12-05-2015','12-07-2015',12),
 (2500,0,'05-08-2015','05-10-2015',13),
 (1000,1,'05-02-2016','05-04-2016',20),
 (2500,0,'12-08-2015','12-09-2015',2),
 (1000,1,'18-02-2016','18-04-2016',5),
 (1500,1,'19-06-2016','19-08-2016',20),
 (2500,0,'15-11-2015','15-01-2016',9),
 (1000,1,'01-02-2016','01-04-2016',13),
 (1000,1,'25-04-2016','24-06-2016',5);
 select * from Referrals
```

| Juno 🗐 | ı ıvıessayes | | | | |
|--------|-----------------------|----------------|------------|------------|------------|
| ref_id | referrer_bonus_amount | referral_valid | valid_from | valid_till | profile_id |
| 1 | 2500 | 1 | 2015-07-05 | 2015-09-05 | 2 |
| 2 | 2500 | 1 | 2015-07-05 | 2015-09-05 | 3 |
| 3 | 1000 | 0 | 2015-12-13 | 2016-02-13 | 5 |
| 4 | 2500 | 0 | 2016-04-25 | 2016-06-24 | 6 |
| 5 | 1000 | 1 | 2015-07-01 | 2015-09-01 | 10 |
| 6 | 2500 | 1 | 2015-05-12 | 2015-07-12 | 12 |
| 7 | 2500 | 0 | 2015-08-05 | 2015-10-05 | 13 |
| 8 | 1000 | 1 | 2016-02-05 | 2016-04-05 | 20 |
| 9 | 2500 | 0 | 2015-08-12 | 2015-09-12 | 2 |
| 10 | 1000 | 1 | 2016-02-18 | 2016-04-18 | 5 |
| 11 | 1500 | 1 | 2016-06-19 | 2016-08-19 | 20 |
| 12 | 2500 | 0 | 2015-11-15 | 2016-01-15 | 9 |
| 13 | 1000 | 1 | 2016-02-01 | 2016-04-01 | 13 |
| 14 | 1000 | 1 | 2016-04-25 | 2016-06-24 | 5 |

EMPLOYMENT DETAILS:

```
(1, 'Sabre', 'mehdi.hasan@sabre.com',1, 'Working'),
 (2, 'hindustan unilever', 'rags.ramgas@gmail.com',2, 'Working'),
 (3, 'Technicolor', 'jigna.thacker@technicolor.com',1, 'Working'),
 (4, NULL, NULL, 'Student'),
 (5,'GE Healthcare','ruchita.save@ge.com',3,'Working'),
 (6, 'Aditya birla', 'shubhi.bajpai@adityabirla.com',3, 'Working'),
 (7, NULL, NULL, 'Student'),
 (8, NULL, NULL, NULL, 'Student'),
 (9, NULL, NULL, 'Student'),
 (10, 'huawei Technologies', 'gunjan19wadhwa@gmail.com',4, 'Working'),
 (11, NULL, NULL, 'Student'),
  (12, 'Centurylink India', 'PreetInder.Sodhi@centurylink.com',2, 'Working'),
 (13, 'SAP Labs India', 'udit.singh@sap.com',2, 'Working'),
 (14, 'NestAway', 'deepak@nestaway.com',1, 'Working'),
 (15, NULL, NULL, 'Student'),
 (16, NULL, NULL, 'Student'),
 (17, 'Microsoft', 't-akmeh@microsoft.com',2, 'Working'), (18, 'Cognizant', 'bhavranjan.pandey@cognizant.com',2, 'Working'),
 (19, NULL, NULL, 'Student'),
 (20, 'Tiny Mogul Games', 'sanchit@hike.in',3, 'Working');
 select * from Employment details;
6 ▼ 4 ■
```

esults Messages

| :4 | | latest semileres | efficial mail id | | annuational antunes. |
|----|------------|---------------------|-------------------------------|----------------|-----------------------|
| id | profile_id | latest_employer | official_mail_id | yrs_experience | occupational_category |
| 1 | 1 | Sabre | mehdi.hasan@sabre.com | 1 | Working |
| 2 | 2 | hindustan unilever | rags.ramgas@gmail.com | 2 | Working |
| 3 | 3 | Technicolor | jigna.thacker@technicolor.com | 1 | Working |
| 4 | 4 | NULL | NULL | NULL | Student |
| 5 | 5 | GE Healthcare | ruchita.save@ge.com | 3 | Working |
| 6 | 6 | Aditya birla | shubhi.bajpai@adityabirla.com | 3 | Working |
| 7 | 7 | NULL | NULL | NULL | Student |
| 8 | 8 | NULL | NULL | NULL | Student |
| 9 | 9 | NULL | NULL | NULL | Student |
| 10 | 10 | huawei Technologies | gunjan19wadhwa@gmail.com | 4 | Working |
| 11 | 11 | NULL | NULL | NULL | Student |
| 12 | 12 | Centurylink India | PreetInder.Sodhi@centurylin | 2 | Working |
| 13 | 13 | SAP Labs India | udit.singh@sap.com | 2 | Working |
| 14 | 14 | NestAway | deepak@nestaway.com | 1 | Working |
| 15 | 15 | NULL | NULL | NULL | Student |
| 16 | 16 | NULL | NULL | NULL | Student |
| 17 | 17 | Microsoft | t-akmeh@microsoft.com | 2 | Working |
| 18 | 18 | Cognizant | bhavranjan.pandey@cogniz | 2 | Working |
| 19 | 19 | NULL | NULL | NULL | Student |
| 20 | 20 | Tiny Mogul Games | sanchit@hike.in | 3 | Working |

QUERY:

1.

```
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 top 2 with ties Profiles.profile_id ,Profiles.first_name + ' '+ Profiles.last_name as Fullname, Profiles.phone,email,
 DATEDIFF(day, move in date, move out date) as totaldays
 from Profiles
 INNER JOIN Tenancy_histories on Profiles.profile_id = Tenancy_histories.profile_id
 order by totaldays desc;
   ▼ ( |
Results Messages
  profile_id Fullname
                         phone
                                      email
                                                               totaldays
                         8105987404 anusha.pariti@gmail.com
  1
            anusha pariti
                                                               443
            Tushar kapoor 8926537154 tushar.kapoor21@gmail.com 417
```

```
d . Write a query to get the Full name, email id, phone of tenants who are married and paying
  rent > 9000 using subqueries .
  select first name+ ' '+ last name as FULL NAME,phone,email
   FROM Profiles
   WHERE profile_id IN
       SELECT profile_id
       FROM Profiles
       WHERE marital_status= 'Y' ) AND profile_id IN
                   ( SELECT profile_id
                       FROM [dbo].[Tenancy_histories]
                       WHERE rent> '9000');
  select p.first_name+ ' '+ p.last_name as FULL_NAME,p.phone,p.email,t.rent
  from profiles p inner join Tenancy_histories t on p.profile_id = t.profile_id where p.marital_status='y' and t.rent >9000 ;
     + 4 ■
1 %
FULL_NAME
                   phone
                                                         rent
    Ashish Singh
                   9876890463 ashish.singh@gmail.com
                                                         11000
                                                         10200
    Harish sahai
                   9876548763 harish294all@gmail.com
    Mitali gupta
                    8796751238 mitali.gupta80@gmail.com
                                                         12000
    Roosena manuel 9875623345 roseenasimimanuel@gmail.com 10500
```

```
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 ,Profiles.first_name + ' '+ Profiles.last_name as Fullname, Profiles.phone,Profiles.email,Profiles.city,
      Tenancy_histories.house_id, Tenancy_histories.move_in_date, Tenancy_histories.move_out_date, Tenancy_histories.rent, Employment_details.latest_employer,
      Employment_details.occupational_category ,sum(Referrals.referral_valid) as total_referral_made
      from Profiles
      INNER JOIN Tenancy_histories on Profiles.profile_id = Tenancy_histories.profile_id
      INNER JOIN Employment details ON Profiles.profile id =Employment details.profile id
      INNER JOIN Referrals on Profiles.profile_id = Referrals.profile_id
      where (city in ('Pune', 'Bangalore')) and (move_in_date >= '01-01-2015' and move_out_date <= '01-01-2016')
      \label{prop:control} \by Tenancy\_histories.rent, Profiles.profile\_id, email, city, house\_id, first\_name, last\_name, phone, move\_in\_date, move\_out\_date, latest\_employer, and the property of the property of
      occupational_category
 % - 4
Results Messages
         profile_id Fullname
                                                                                    email
                                                                                                                                          city
                                                                                                                                                                 house_id | move_in_date | move_out_date | rent | latest_employer | occupational_category | total_referral_made
                              Tanvi mann 9178352769 tanvi.mann1907@gmail.com Bangalore 3
        5
                                                                                                                                                                                      2015-05-15 2015-12-27
                                                                                                                                                                                                                                                    9000 GE Healthcare Working
```

20

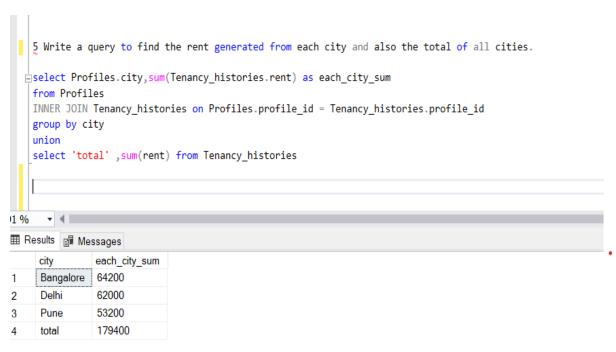
Karan Singh karan.singh@gmail.com

```
\stackrel{1}{\mathbb{B}}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 Profiles.profile id, first name + ' ' + last name as FullName,email, phone, referral code,referral valid,
   sum(referrer_bonus_amount) as total_referrer_bonus,
   SUM(case when referral_valid = 1 then referrer_bonus_amount
                       else 0
                  end) AS [Total Valid Bonus Amount],
                  COUNT(ref_id) AS [Total referrals] from Profiles
                  inner join Referrals on Profiles.profile_id = Referrals.profile_id
   group by Profiles.profile_id, first_name, last_name,email, phone, referral_code,referral_valid
   having(SUM(referral_valid) >1)
% ▼ 4 ■
Results Messages
    profile id FullName
                                                                            referral valid total referrer bonus Total Valid Bonus Amount
                                                                                                                                  Total referrals
                                                   phone
                                                               referral code
    5
              Tanvi mann
                          tanvi.mann1907@gmail.com
                                                   9178352769
                                                               JSH48B
                                                                             1
                                                                                         2000
                                                                                                            2000
                                                                                                                                   2
```

2500

2500

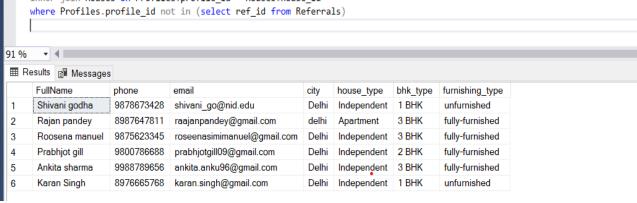
8976665768 LRF34F



```
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.
     select profile_id,rent,move_in_date,house_type,beds_vacant,name,description ,city,pincode
     from Houses
     INNER JOIN Tenancy_histories on Houses.house_id = Tenancy_histories.house_id
     INNER JOIN Address on Houses.house_id = Address.house_id
     where (move_in_date >= '04-30-2015') and (beds_vacant >=1)
     select * from vw_tenat
91 % 🔻 🕯 🗔
profile_id rent move_in_date house_type beds_vacant name
                                                                                                                                city
                                                                                                                                          pincode
              11000 2015-06-05
                                                                                                                                bangalore 560102
     2
                                    Apartment
                                                             stag saptgiri
                                                                                No.44, Ground floor, 20th cross, Sector 2 HSR Layout, B...
                9000 2015-05-15
                                                                                No.44, First floor, 20th cross, Sector 2 HSR Layout.
                                                                                                                                          560102
                                                                                                                                bangalore
                6500 2015-11-20
                                                             Juniper appartments # 595/1, 1st Floor,1st A main, Domlur Layout
                                                                                                                                bangalore 560038
                                    Apartment
                10200 2015-12-25
                                                                                Flat No-202, Apoorva Apartment No-296 Vyalikaval H...
                                                                                                                                          561202
      6
                                    Apartment
                                                             Apoorva society
                                                                                                                                Delhi
      10
                7500 2015-06-20
                                                             VaK Residency
                                                                                302,#473 VAK Residency, B-Block, AECS Layout,Kun.
                                                                                                                                Delhi
                                                                                                                                          456738
      14
                13500 2016-01-07
                                                             uniworld D1-1201
                                                                                Uniworld Garden 2
                                                                                                                                          543678
                                    Independent 1
                                                                                                                                Pune
6
      11
                8000 2015-08-29
                                    Independent 1
                                                             Vinayaka residency 49, House 1 lathangi 2nd main vinayaka housing layo...
                                                                                                                                Pune
                                                                                                                                          560094
      19
                7500
                       2015-09-26
                                    Independent 2
                                                             Sun city appartments Majeera Diamond Towers, malad-west
                                                                                                                                          5600263
```

```
7 Write a code to extend the valid_till date for a month of tenants who have referred more
    than TWO times.
    update Referrals
    valid_till= dateadd(DAY,30,valid_till)
    where
 profile_id in (
    select profile_id
    Referrals
    group by profile_id
    having(SUM(referral_valid) >2))
    select * from Referrals
91 % ▼ ◀
ref_id referrer_bonus_amount referral_valid valid_from valid_till
                                                                     profile_id
     1
            2500
                                              2015-07-05 2015-09-05
1
                                  1
                                                                     2
2
      2
            2500
                                  1
                                              2015-07-05 2015-09-05 3
            1000
                                  0
                                              2015-12-13 2016-02-13 5
     3
3
            2500
                                  0
                                              2016-04-25 2016-06-24 6
      5
            1000
                                              2015-07-01 2015-09-01 10
2015-05-12 2015-07-12 12
5
                                  1
6
      6
            2500
                                  1
                                              2015-08-05 2015-10-05 13
            2500
                                  0
7
            1000
                                              2016-02-05 2016-04-05 20
8
            2500
                                  0
9
      9
                                              2015-08-12 2015-09-12 2
      10
            1000
                                              2016-02-18 2016-04-18 5
10
                                  1
            1500
                                              2016-06-19 2016-08-19 20
11
      11
                                  1
            2500
                                              2015-11-15 2016-01-15 9
12
      12
13
     13
            1000
                                  1
                                              2016-02-01 2016-04-01 13
14
      14
             1000
                                              2016-04-25 2016-06-24 5
```

```
8 Write a query to get Fullname, Contact, City and House Details of the tenants who have not
referred even once
select first_name + ' ' + last_name as FullName, phone,email, city, house_type,bhk_type,furnishing_type
from Profiles
inner join Houses on Profiles.profile_id = Houses.house_id
```



```
9. 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 , first_name + ' ' + last_name as FullName, phone,rent,
     IIF(rent>10000, 'Grade A', iif(rent>7500, 'Grade B', 'Grade C')) as customer_segment
    INNER JOIN Tenancy_histories on Profiles.profile_id = Tenancy_histories.profile_id
    order by rent desc;
91 % ▼ ◀ ■
profile_id FullName
                                 phone
                                              rent
                                                     customer_segment
                                 9867845182
                                              13500
     14
               Manisha Yadav
                                                     Grade A
2
     3
               Bhaskar maheshwari 9801834992
                                              12000 Grade A
                                 8796751238
                                              12000 Grade A
3
               Mitali gupta
                                 9876890463
                                              11000
4
     2
               Ashish Singh
                                                     Grade A
5
      12
               Umang parejiya
                                 7896543674
                                              11000
6
     17
               Roosena manuel
                                 9875623345
                                              10500 Grade A
               Harish sahai
                                 9876548763
                                                     Grade A
                                             10200
8
     20
               Karan Singh
                                 8976665768
                                             9500
                                                     Grade B
                                 9178352769
                                              9000
                                                     Grade B
9
               Tanvi mann
10
     4
               Garima yadav
                                 81059237004 8000
                                                     Grade B
                                 9800786688
                                                     Grade B
11
               Prabhjot gill
                                 7896785432
                                                     Grade B
12
      11
               Deepa sudhakar
                                              8000
13
               Shivshankar das
                                 9801834992
                                              7500
                                                     Grade C
     10
14
               Aditi jain
                                 9873123456
                                              7500
                                                     Grade C
               Ankita sharma
                                 9988789656
                                                     Grade C
15
      19
                                              7500
16
     1
               anusha pariti
                                 8105987404
                                              7500
                                                     Grade C
17
     8
                                 8926537154
                                              7200
                                                     Grade C
               Tushar kapoor
18
     7
               Kamal gera
                                 8105987404
                                              6500
                                                     Grade C
                                 9878673428
19
               Shivani godha
                                              6500
                                                     Grade C
                                 8987647811 6500 Grade C
20
     16
              Rajan pandey
```

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

select top 1 with ties house_id,house_type, bhk_type , bed_count, furnishing_type, beds_vacant ,(bed_count-beds_vacant) as house_occupancy
from Houses

order by house_occupancy desc;

11% ▼ 4 🗆

| | house_id | house_type | bhk_type | bed_count | furnishing_type | beds_vacant | house_occupancy |
|---|----------|------------|----------|-----------|-----------------|-------------|-----------------|
| 1 | 1 | Apartment | 3 BHK | 5 | unfurnished | 2 | 3 |
| 2 | 7 | Apartment | 3 BHK | 3 | semifurnished | 0 | 3 |
| 3 | 8 | Apartment | 2 BHK | 4 | fully-furnished | 1 | 3 |
| 4 | 14 | Apartment | 3 BHK | 3 | fully-furnished | 0 | 3 |
| 5 | 16 | Apartment | 3 BHK | 3 | fully-furnished | 0 | 3 |

```
11.
    UPDATE Employment_details
    SET yrs_experience= yrs_experience + 1
    WHERE occupational_category = 'WORKING';
    SELECT * FROM Employment_details
91 %
     ▼ 4 ■
profile_id latest_employer
                                        official_mail_id
                                                                        yrs_experience
                                                                                       occupational_category
                                                                                       Working
     1
                    Sabre
                                        mehdi.hasan@sabre.com
2
      2
          2
                    hindustan unilever
                                        rags.ramgas@gmail.com
                                                                         3
                                                                                       Working
3
      3
          3
                    Technicolor
                                        jigna.thacker@technicolor.com
                                                                         2
                                                                                       Working
                    NULL
                                        NULL
                                                                         NULL
4
      4
          4
                                                                                       Student
                    GE Healthcare
                                                                                       Working
5
          5
                                        ruchita.save@ge.com
6
      6
          6
                    Aditya birla
                                        shubhi.bajpai@adityabirla.com
                                                                         4
                                                                                       Working
                    NULL
                                        NULL
                                                                         NULL
7
                                                                                       Student
8
      8
          8
                    NULL
                                        NULL
                                                                         NULL
                                                                                       Student
                    NULL
                                        NULL
                                                                         NULL
9
                                                                                       Student
10
      10
          10
                    huawei Technologies
                                        gunjan19wadhwa@gmail.com
                                                                         5
                                                                                       Working
      11
          11
                    NULL
                                        NULL
                                                                         NULL
                                                                                       Student
11
12
      12
          12
                    Centurylink India
                                        PreetInder.Sodhi@centurylink.com
                                                                         3
                                                                                       Working
                    SAP Labs India
      13
          13
                                        udit.singh@sap.com
                                                                         3
                                                                                       Working
13
14
      14
          14
                    NestAway
                                        deepak@nestaway.com
                                                                         2
                                                                                       Working
      15
                                        NULL
                                                                         NULL
15
          15
                    NULL
                                                                                       Student
16
      16
          16
                    NULL
                                        NULL
                                                                         NULL
                                                                                       Student
      17
17
          17
                    Microsoft
                                        t-akmeh@microsoft.com
                                                                         3
                                                                                       Working
18
      18 18
                    Cognizant
                                        bhavranjan.pandey@cognizant.com
                                                                        3
                                                                                       Working
      19
          19
                    NULL
                                        NULL
                                                                         NULL
                                                                                       Student
19
20
      20 20
                    Tiny Mogul Games
                                        sanchit@hike.in
                                                                                       Working
```

12.

12.
select *, rank() over (partition by city order by gender) rank from profiles

| 1 % | 7 4 | | | | | | | | | | |
|------|------------|-------------|------------|-----------------------------|-------------|-----------|------------|--------|---------------|----------------|------|
| ⊞ Re | sults 📶 M | essages | | | | | | | | | |
| | profile_id | first_name | last_name | email | phone | city | created_at | gender | referral_code | marital_status | rank |
| 1 | 4 | Garima | yadav | garima0191@gmail.com | 81059237004 | Bangalore | 2015-10-20 | F | 5G5FQW | N | 1 |
| 2 | 5 | Tanvi | mann | tanvi.mann1907@gmail.com | 9178352769 | Bangalore | 2015-02-16 | F | JSH48B | N | 1 |
| 3 | 1 | anusha | pariti | anusha.pariti@gmail.com | 8105987404 | Bangalore | 2015-04-16 | F | 7L5FZW | Y | 1 |
| 4 | 2 | Ashish | Singh | ashish.singh@gmail.com | 9876890463 | Bangalore | 2015-05-23 | M | KF34MF | Y | 4 |
| 5 | 3 | Bhaskar | maheshwari | bhaskar.mah@gmail.com | 9801834992 | Bangalore | 2015-05-01 | M | 5TYSHGF | N | 4 |
| 6 | 6 | Harish | sahai | harish294all@gmail.com | 9876548763 | Bangalore | 2015-11-11 | M | MKGI2W | Y | 4 |
| 7 | 7 | Kamal | gera | kamal0094@gmail.com | 8105987404 | Bangalore | 2015-10-31 | M | MK34ER | N | 4 |
| 8 | 14 | Manisha | Yadav | maniyadav88@gmail.com | 9867845182 | Delhi | 2015-01-27 | F | LKGHY6 | N | 1 |
| 9 | 15 | Shivani | godha | shivani_go@nid.edu | 9878673428 | Delhi | 2015-02-19 | F | 8NM4R | Y | 1 |
| 10 | 17 | Roosena | manuel | roseenasimimanuel@gmail.com | 9875623345 | Delhi | 2015-04-13 | F | 6TYHU | Y | 1 |
| 11 | 19 | Ankita | sharma | ankita.anku96@gmail.com | 9988789656 | Delhi | 2015-08-17 | F | TH67TY | Y | 1 |
| 12 | 20 | Karan | Singh | karan.singh@gmail.com | 8976665768 | Delhi | 2015-09-15 | M | LRF34F | N | 5 |
| 13 | 18 | Prabhjot | gill | prabhjotgill09@gmail.com | 9800786688 | Delhi | 2015-12-30 | M | GHJK34 | N | 5 |
| 14 | 16 | Rajan | pandey | raajanpandey@gmail.com | 8987647811 | delhi | 2015-09-04 | M | 5TYUIO | N | 5 |
| 15 | 13 | Mitali | gupta | mitali.gupta80@gmail.com | 8796751238 | Pune | 2015-03-24 | F | 5RTYU3 | Y | 1 |
| 16 | 10 | Aditi | jain | aditi.jain@sproxil.com | 9873123456 | Pune | 2015-06-11 | F | 5TPL4E | N | 1 |
| 17 | 11 | Deepa | sudhakar | sudhakar.deepa@gmail.com | 7896785432 | Pune | 2015-09-15 | F | 4RTYUIO | Y | 1 |
| 18 | 12 | Umang | parejiya | uparejiya@gmail.com | 7896543674 | Pune | 2015-07-18 | M | 6TY4WE | N | 4 |
| 19 | 8 | Tushar | kapoor | tushar.kapoor21@gmail.com | 8926537154 | Pune | 2015-12-12 | M | KLF12E | N | 4 |
| 20 | 9 | Shivshankar | das | sankar.shiva730@gmail.com | 9801834992 | Pune | 2015-10-06 | M | 3RE5TY | Y | 4 |

```
13.
    (select *, rank() over (partition by city order by gender ) rank from profiles ) a where a.rank = 1
11 % ▼ 4
first_name last_name email
                                                                                       created at gender
                                                                                                          referral code
                                                                                                                       marital status
                                                               phone
                                    garima0191@gmail.com
                                                                81059237004
                                                                            Bangalore 2015-10-20 F
                                                                                                          5G5FQW
1
               Garima
                          yadav
                                                                                                                                     1
     5
                                    tanvi.mann1907@gmail.com
                                                               9178352769
                                                                             Bangalore 2015-02-16 F
                                                                                                                       N
2
                                                                                                           JSH48B
                                                                                                                                     1
               Tanvi
                          mann
3
      1
               anusha
                          pariti
                                    anusha.pariti@gmail.com
                                                                8105987404
                                                                             Bangalore
                                                                                       2015-04-16 F
                                                                                                          7L5FZW
                                                                                                                       Υ
                                                                                                                                     1
      14
                                                                9867845182
                                                                                       2015-01-27 F
                                                                                                                       N
4
               Manisha
                          Yadav
                                    maniyadav88@gmail.com
                                                                             Delhi
                                                                                                          LKGHY6
                                                                                                                                     1
                                                                                                                       Υ
5
      15
                          godha
                                                               9878673428
                                                                             Delhi
                                                                                       2015-02-19 F
                                                                                                          8NM4R
                                                                                                                                     1
               Shivani
                                    shivani_go@nid.edu
6
      17
               Roosena
                                    roseenasimimanuel@gmail.com
                                                               9875623345
                                                                                       2015-04-13 F
                                                                                                          6TYHU
                                                                                                                       Υ
                         manuel
7
      19
                                                               9988789656
                                                                             Delhi
                                                                                       2015-08-17 F
                                                                                                          TH677
                                                                                                                       Υ
                                                                                                                                     1
               Ankita
                                    ankita.anku96@gmail.com
                          sharma
                                                                                       2015-03-24 F
                                                                                                          5RTYU3
                                                                                                                       Υ
8
      13
               Mitali
                          gupta
                                    mitali.gupta80@gmail.com
                                                                8796751238
                                                                             Pune
                                                                                                                                     1
9
      10
               Aditi
                          jain
                                    aditi.jain@sproxil.com
                                                                9873123456
                                                                             Pune
                                                                                       2015-06-11 F
                                                                                                          5TPL4E
                                                                                                                       N
                                                                                                                                     1
     11
                                                                7896785432
                                                                             Pune
                                                                                       2015-09-15 F
                                                                                                          4RTYUIO
                                                                                                                       Υ
                          sudhakar
                                    sudhakar.deepa@gmail.com
10
               Deepa
```

14.

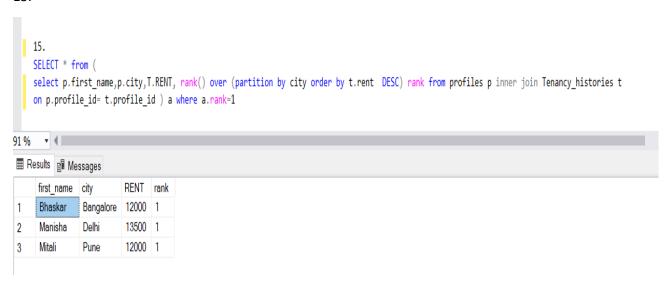
Tushar

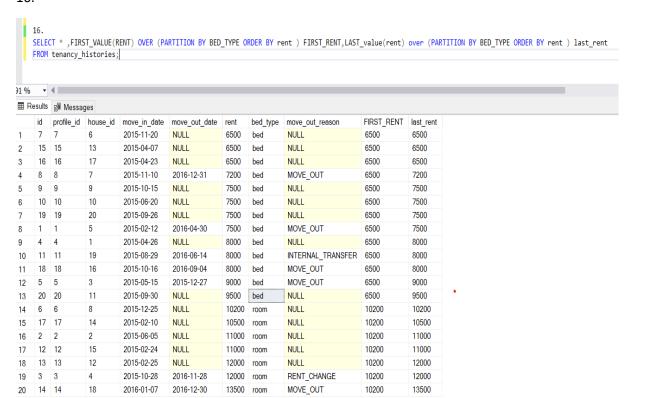
20

7200 6

Pune

```
14.
    select p.first_name,p.city,T.RENT, rank() over (partition by city order by t.rent DESC) rank from profiles p inner join Tenancy_histories t
      on p.profile_id= t.profile_id
1 %
RENT
     first_name
                city
    Bhaskar
                Bangalore
                          12000
                 Bangalore
2
     Ashish
                          11000
                          10200
                                 3
3
     Harish
                 Bangalore
4
                 Bangalore
                          9000
     Tanvi
                          8000
5
     Garima
                 Bangalore
6
                 Bangalore
     anusha
                 Bangalore
                          6500
8
     Manisha
                 Delhi
                           13500
                 Delhi
                           10500 2
9
     Roosena
     Karan
                 Delhi
                           9500
10
                 Delhi
                           8000
11
     Prabhjot
                 Delhi
12
     Ankita
                           7500
                 Delhi
                           6500
13
14
     Rajan
                 delhi
                           6500
                                 6
15
     Mitali
                 Pune
                           12000 1
                           11000 2
16
     Umang
                 Pune
                           8000
                                3
17
     Deepa
                 Pune
     Shivshankar
                           7500
                                 4
18
                Pune
                           7500
19
     Aditi
                 Pune
```





17. SELECT * ,FIRST_VALUE(RENT) OVER (PARTITION BY BED_TYPE ORDER BY rent) FIRST_RENT, LAST_value(rent) over (PARTITION BY BED_TYPE ORDER BY rent rows between unbounded preceding and unbounded following) last_rent FROM tenancy_histories; 91 % ■ Results ■ Messages FIRST_RENT last_rent profile_id house_id move_in_date move_out_date rent bed_type move_out_reason 6 2015-11-20 NULL 6500 NULL 6500 9500 15 13 2015-04-07 NULL 6500 NULL 6500 9500 15 2 bed 3 16 16 17 2015-04-23 NULL 6500 bed NULL 6500 9500 8 8 2015-11-10 2016-12-31 7200 MOVE_OUT 6500 9500 4 bed 5 9 9 9 2015-10-15 NULL 7500 bed NULL 6500 9500 10 6500 9500 10 10 2015-06-20 NULL 7500 NULL 6 bed 7 19 19 20 2015-09-26 NULL 7500 bed NULL 6500 9500 2015-02-12 MOVE_OUT 6500 8 1 2016-04-30 7500 bed 9500 2015-04-26 9 4 4 NULL 8000 bed NULL 6500 9500 10 11 11 19 2015-08-29 2016-06-14 8000 bed INTERNAL_TRANSFER 6500 9500 MOVE_OUT 9500 11 18 18 16 2015-10-16 2016-09-04 8000 bed 6500 2015-05-15 2015-12-27 MOVE_OUT 6500 12 9000 bed 13 20 20 11 2015-09-30 NULL 9500 bed NULL 6500 9500 14 6 6 2015-12-25 NULL 10200 NULL 10200 13500 room 17 15 17 2015-02-10 NULL 10200 13500 14 NULL 10500 room 2 2 2015-06-05 NULL 11000 room NULL 10200 13500 16 12 12 13500 17 15 2015-02-24 NULL 11000 room NULL 10200 18 13 13 12 2015-02-25 NULL 12000 NULL 10200 13500 RENT CHANGE 3 3 2015-10-28 2016-11-28 13500 19 4 12000 room 10200 14 14 18 2016-01-07 2016-12-30 13500 room MOVE_OUT 10200 13500

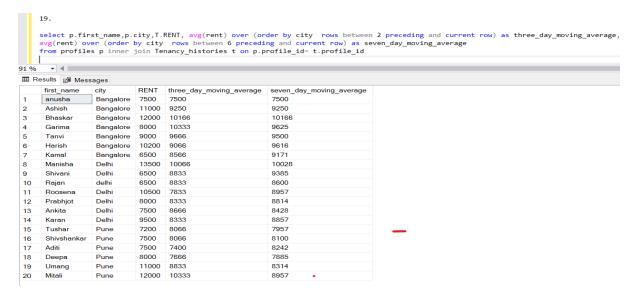
18.

L %

select p.first_name,t.bed_type,p.city,T.RENT, rank() over (partition by city order by t.rent DESC) rank,
FIRST_VALUE(RENT) OVER (PARTITION BY bed_type ORDER BY rent desc) FIRST_RENT from profiles p inner join Tenancy_histories t
on p.profile_id= t.profile_id

| | mst_name | beu_type | City | IVEIVI | IGIIK | TINOT_INLINT |
|----|-------------|----------|-----------|--------|-------|--------------|
| 1 | Karan | bed | Delhi | 9500 | 3 | 9500 |
| 2 | Tanvi | bed | Bangalore | 9000 | 4 | 9500 |
| 3 | Garima | bed | Bangalore | 8000 | 5 | 9500 |
| ‡ | Prabhjot | bed | Delhi | 8000 | 4 | 9500 |
| 5 | Deepa | bed | Pune | 8000 | 3 | 9500 |
| 3 | Shivshankar | bed | Pune | 7500 | 4 | 9500 |
| 7 | Aditi | bed | Pune | 7500 | 4 | 9500 |
| 3 | Ankita | bed | Delhi | 7500 | 5 | 9500 |
|) | anusha | bed | Bangalore | 7500 | 6 | 9500 |
| 10 | Tushar | bed | Pune | 7200 | 6 | 9500 |
| 11 | Kamal | bed | Bangalore | 6500 | 7 | 9500 |
| 12 | Shivani | bed | Delhi | 6500 | 6 | 9500 |
| 13 | Rajan | bed | delhi | 6500 | 6 | 9500 |
| 14 | Manisha | room | Delhi | 13500 | 1 | 13500 |
| 15 | Mitali | room | Pune | 12000 | 1 | 13500 |
| 16 | Bhaskar | room | Bangalore | 12000 | 1 | 13500 |
| 17 | Ashish | room | Bangalore | 11000 | 2 | 13500 |
| 18 | Umang | room | Pune | 11000 | 2 | 13500 |
| 19 | Roosena | room | Delhi | 10500 | 2 | 13500 |
| 20 | Harish | room | Bangalore | 10200 | 3 | 13500 |
| | | | | | | |

19.what is happening =avg of 3 only like 10333=(10166+9250+7500)/3 and 9666=(10333+10166+9250)/3 and so on...... u can do more like 4 avg ,5 avg by changing 3 preceding and 4 preceding



20.

```
20.

----how to get sum of two column if have null value in it......

select sum(isnull(yrs_experience,0)) total from employment_details;

10 %

Results Messages

total

1 26
```

```
select *,CASE WHEN yrs_experience is null then 0 else yrs_experience end as yrs_experience_new from employment_details;
   - 4 ■
esults Messages
id profile_id latest_employer

1 1 Sabro
                                    official_mail_id
                                                                     yrs_experience occupational_category yrs_experience_new
                                     mehdi.hasan@sabre.com
                                                                                     Working
                hindustan unilever
                                    rags.ramgas@gmail.com
                                                                                     Working
 3
                Technicolor
                                                                                     Working
                                     jigna.thacker@technicolor.com
                NULL
                                     NULL
                                                                      NULL
                                                                                     Student
                GE Healthcare
                                     ruchita.save@ge.com
                                                                                     Working
                Aditya birla
                                     shubhi.bajpai@adityabirla.com
                                                                                     Working
                NULL
                                     NULL
                                                                     NULL
                                                                                     Student
 8
      8
                NULL
                                     NULL
                                                                      NULL
                                                                                     Student
                                                                                                           0
                                    NULL
                                                                     NULL
                                                                                     Student
                NULL
  10
      10
                huawei Technologies
                                     gunjan19wadhwa@gmail.com
                                                                                     Working
                                                                     NULL
  11
      11
                NULL
                                    NULL
                                                                                     Student
                                                                                                           0
  12
      12
                Centurylink India
                                     PreetInder.Sodhi@centurylink.com
                                                                                     Working
                                                                                    Working
  13
      13
                SAP Labs India
                                     udit.singh@sap.com
 14
      14
                NestAway
                                     deepak@nestaway.com
                                                                                     Working
  15
      15
                NULL
                                     NULL
                                                                                     Student
                                                                     NULL
                NULL
                                     NULL
                                                                     NULL
                                                                                     Student
  17
      17
                Microsoft
                                     t-akmeh@microsoft.com
                                                                                     Working
  18
      18
                Cognizant
                                     bhavranjan.pandey@cognizant.com
                                                                                     Working
                                    NULL
                                                                     NULL
                                                                                     Student
```

Working

23.

20 20

Tiny Mogul Games

sanchit@hike.in

```
23.
     select string_agg( first_name ,',') summary from profiles;
     select concat(first_name,'-',city) detail from profiles
    select string_agg(detail,';') summary from
  (select concat(first_name,'-',city) detail from profiles ) a;
    select gender,string_agg(detail,';') summary from
       (select gender,concat(first_name,'-',city) detail from profiles ) a group by gender;
0 %
anusha, Ashish, Bhaskar, Garima, Tanvi, Harish, Kamal,...
      anusha-Bangalore
1
2
      Ashish-Bangalore
3
      Bhaskar-Bangalore
4
      Garima-Bangalore
5
      Tanvi-Bangalore
      Harish-Bangalore
6
7
      Kamal-Bangalore
      Tushar-Pune
8
      summary
      anusha-Bangalore;Ashish-Bangalore;Bhaskar-Bangal...
1
      gender summary
              Garima-Bangalore; Tanvi-Bangalore; anusha-Bangalor...
2
               Karan-Delhi;Prabhjot-Delhi;Rajan-delhi;Umang-Pune;...
```

```
recursive:

select datename(dw,1);

with cte_numbers(n,weekday)
as ( select 0,datename(dw,0)
union all select n + 1, datename(dw, n + 1)
from cte_numbers where n < 6)
select weekday from cte_numbers;

Results Messages

(No column name)
Tuesday
```

weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday

```
25.
    create table orders(order_id char(15),product_id char(15),quantity int);
    insert into orders values('odr1','prd1',5),('odr2','prd2',1),('odr3','prd3',3);
     select order_id,product_id,quantity from orders union all
     select order_id,product_id,quantity-1 from cte where quantity >= 2)
    select order_id,product_id,quantity from cte;
0 %
     ▼ 4 📖
order id
              product id
                        quantity
              prd1
     odr1
                         5
1
              prd2
     odr2
                         1
2
     odr3
                         3
3
              prd3
                         2
4
     odr3
              prd3
              prd3
                         1
     odr3
5
     odr1
                         4
6
              prd1
7
     odr1
              prd1
                         3
     odr1
              prd1
                         2
8
     odr1
              prd1
```

90 %

```
26.
with cte as (
select order_id,product_id,quantity from orders union all
select order_id,product_id,quantity-1 from cte where quantity >= 2)

select order_id,product_id,count(quantity) cnt from (
select * from cte) a group by order_id,product_id;
```

order_id product_id quantity odr1 prd1 5 1 1 2 odr2 prd2 prd3 3 3 odr3 4 odr3 prd3 2 5 odr3 prd3 1 4 6 odr1 prd1 7 3 odr1 prd1 2 8 odr1 prd1 1 odr1 prd1

▼ 4 ■