# B.TECH. (CSE) VI SEMESTER

**UE20CS301 – Database Management Systems (Minors)**

**Mini-Project Report**

**on**

**Title**

## SUBMITTED BY

|  |  |
| --- | --- |
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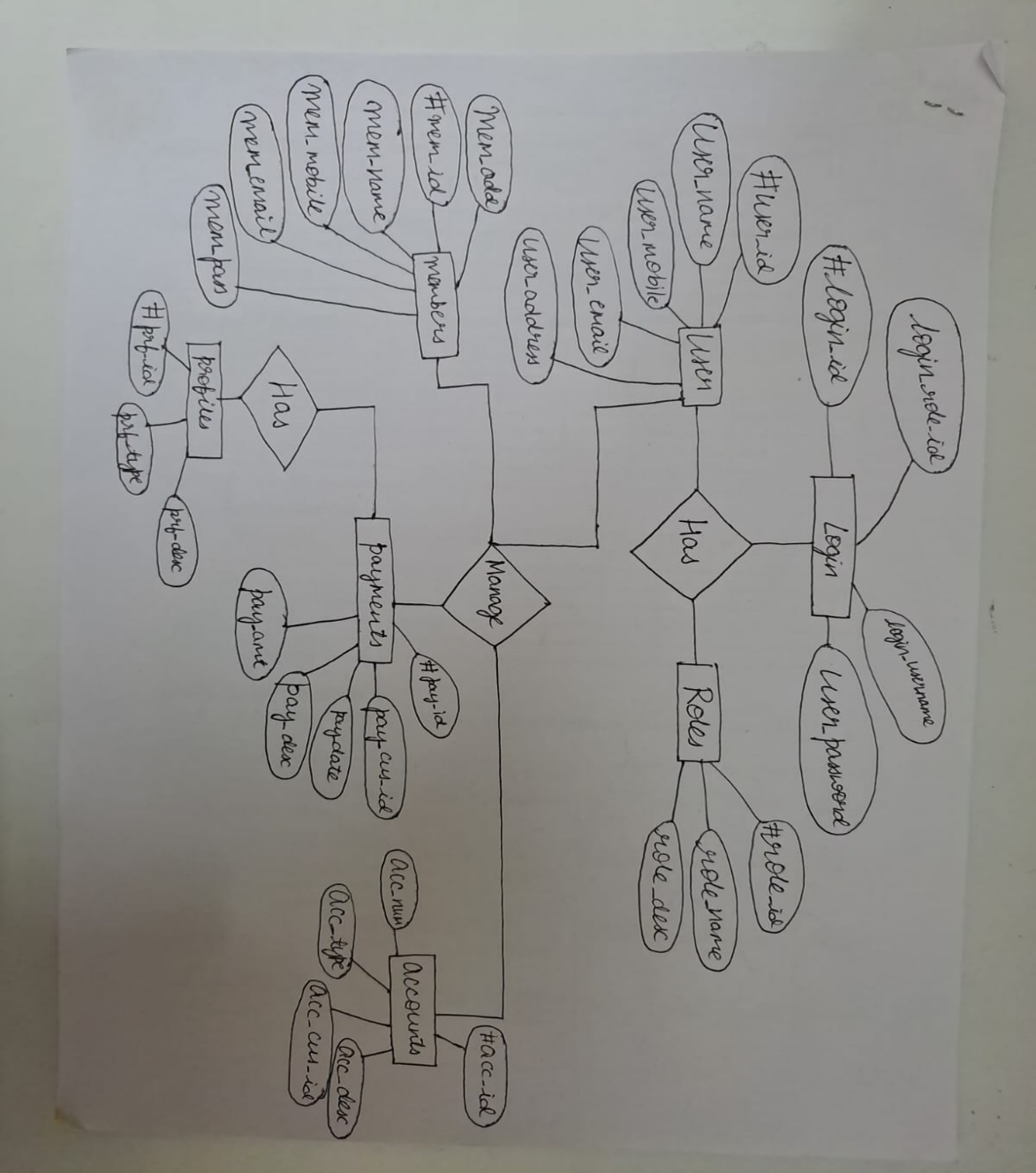
**January – May 2023**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING BENGALURU – 560100, KARNATAKA, INDIA**

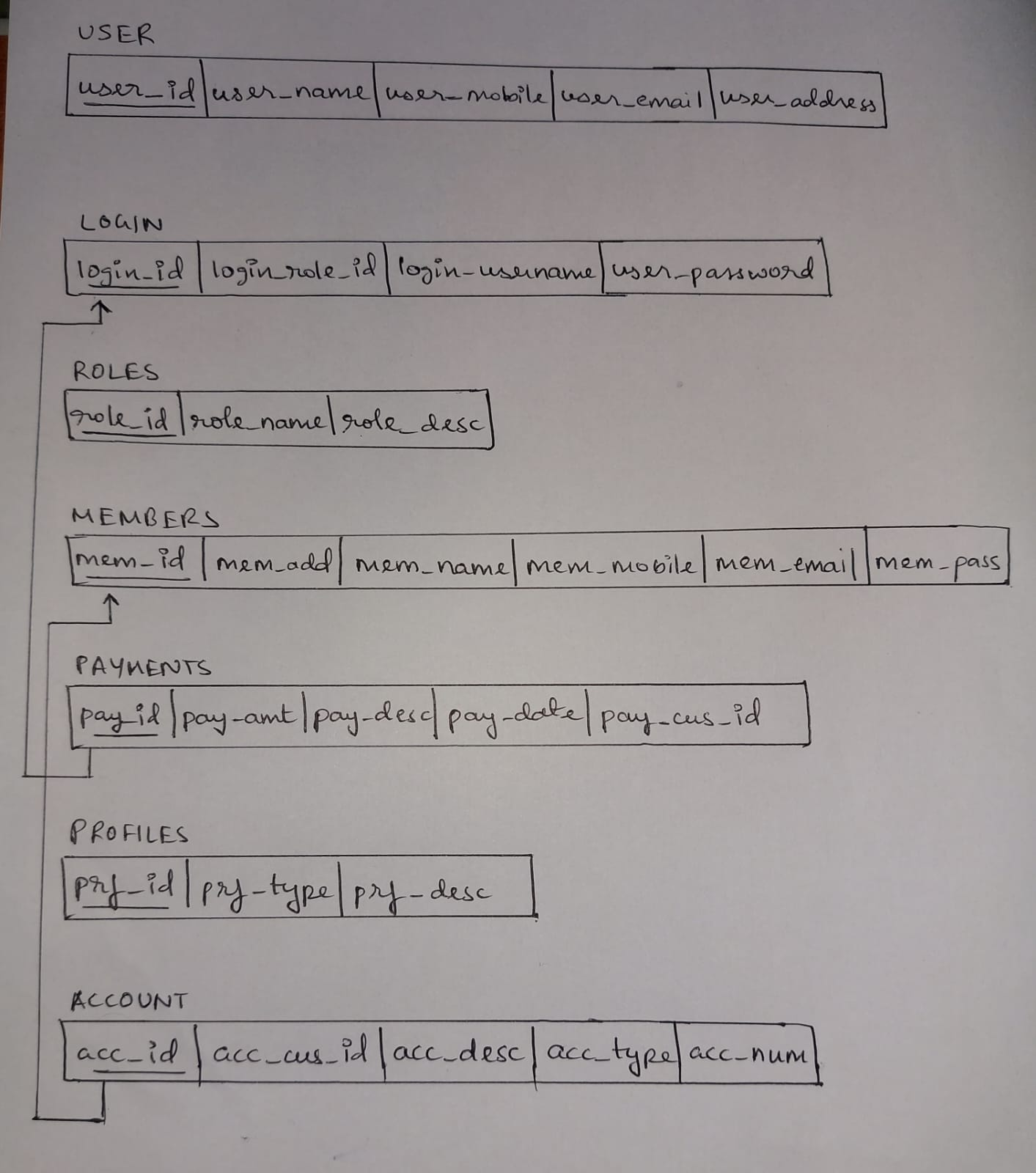
**PROBLEM STATEMENT**

Create a database for club membership and execute basic queries on the tables of the database

**ER DIAGRAM**



**RELATIONAL SCHEMA**



**INDIVIDUAL CONTRIBUTIONS OF TEAM MEMBERS**

Aishwarya R: Creating tables, executing queries

Vaishnavi T: Relational schema, executing queries

Ananya Belavadi: ER diagram

**QUERIES**

CREATE TABLE User\_table(user\_id int NOT NULL, name varchar(50),mobile int, email varchar(50), address varchar(100), PRIMARY KEY(user\_id));

Create table roles(role\_id int NOT NULL, role\_name varchar(50), role\_desc varchar(100),PRIMARY KEY(role\_id));

Create table profiles (prf\_id int NOT NULL,prf\_desc varchar(20),prf\_type varchar(10),destination varchar(30),PRIMARY KEY (prf\_id));

Create table members( mem\_id int NOT NULL,mem\_name varchar(20),mem\_email varchar(10), mem\_add varchar(30),mem\_pass varchar(10), mem\_mobile int(10),PRIMARY KEY (mem\_id));

CREATE TABLE login(login\_id int NOT NULL, login\_role\_id int, login\_username varchar(50),user\_password varchar(50),PRIMARY KEY(login\_id));

Create table payment (pay\_id int NOT NULL,pay\_date Date, pay\_desc varchar(10), pay\_cus\_id varchar(10),pay\_amt varchar(10), PRIMARY KEY (pay\_id), FOREIGN KEY(pay\_id) REFERENCES login(login\_id));

Create table accounts (acc\_id int NOT NULL,acc\_cus\_id int(20),acc\_desc varchar(10), acc\_type varchar(20),acc\_num int(10),PRIMARY KEY (acc\_id),FOREIGN KEY(acc\_id) REFERENCES members(mem\_id));

**Alter user table to not allow blank name:**

ALTER TABLE user\_table MODIFY name varchar(255) NOT NULL;

**Alter user table to only allow duplicate mobile number:**

ALTER table user\_table ADD UNIQUE (mobile);

**Renaming table name:**

Rename table members to member\_details;

**Creating a view:**

Create view member\_info AS select role\_id from roles where role\_name='member';

ALTER TABLE `profiles` DROP `destination`;

**Inserting Values:**

insert into user\_table(user\_id,name,mobile,email,address) values (100001,'Vaishnavi',3748373488,'vaish@gmail.com','no.2323,

18th cross, Raipur 2nd stage');

insert into user\_table(user\_id,name,mobile,email,address) values (100002,'Anagha',3742866488,'anagha@gmail.com','no.

2532, 12th cross, Panaji 2nd stage');

insert into user\_table(user\_id,name,mobile,email,address) values (100008,'Shalmali',8992866488,'shalmali@gmail.com','no.2542,

29th cross, Gandhi 2nd stage');

insert into user\_table(user\_id,name,mobile,email,address) values (100003,'Ananya',9292866488,'anan@gmail.com','no.2222, 18th cross, Ranchi 2nd stage');

insert into user\_table(user\_id,name,mobile,email,address) values (100005,'Aishwarya',3452437890,'aish@gmail.com','no.1232,

17th cross, BSK 2nd stage');

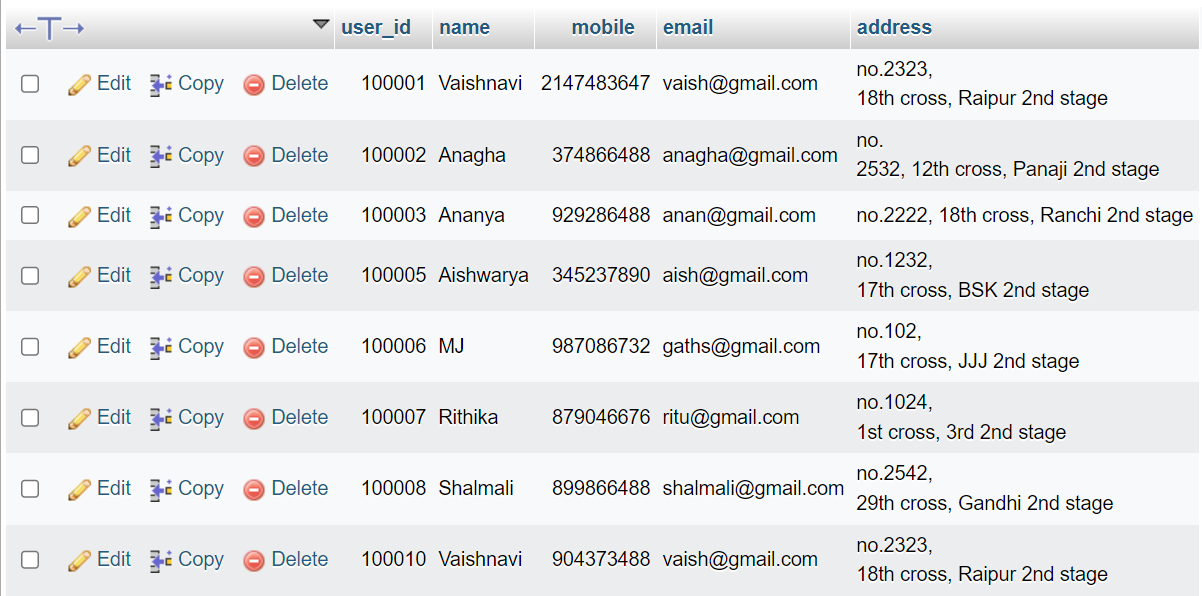
insert into user\_table(user\_id,name,mobile,email,address) values (100006,'MJ',9870986732,'gaths@gmail.com','no.102,

17th cross, JJJ 2nd stage');

insert into user\_table(user\_id,name,mobile,email,address) values (100007,'Rithika',8790456676,'ritu@gmail.com','no.1024,

1st cross, 3rd 2nd stage');

**Output:**



insert into roles(role\_id,role\_name,role\_desc) values (121212, 'user','premium');

insert into roles(role\_id,role\_name,role\_desc) values (139578, 'admin','manager');

insert into roles(role\_id,role\_name,role\_desc) values (147562, 'user','VIP');

insert into roles(role\_id,role\_name,role\_desc) values (264715, 'user','regular');

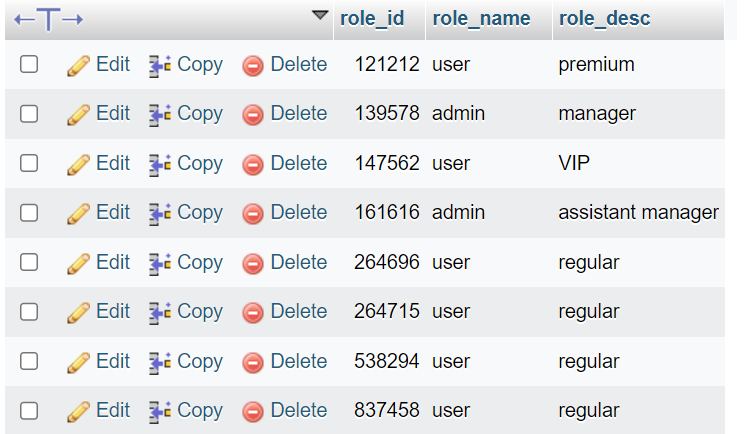
insert into roles(role\_id,role\_name,role\_desc) values (161616, 'admin','assistant manager');

insert into roles(role\_id,role\_name,role\_desc) values (837458, 'user','regular');

insert into roles(role\_id,role\_name,role\_desc) values (538294, 'user','regular');

insert into roles(role\_id,role\_name,role\_desc) values (264696, 'user','regular');

**Output:**



insert into profiles(prf\_id,prf\_desc,prf\_type) values (674758,'3 months','monthly');

insert into profiles(prf\_id,prf\_desc,prf\_type) values (487563,'5 months','monthly');

insert into profiles(prf\_id,prf\_desc,prf\_type) values (485739,'6 months','monthly');

insert into profiles(prf\_id,prf\_desc,prf\_type) values (483753,'1 year','annual');

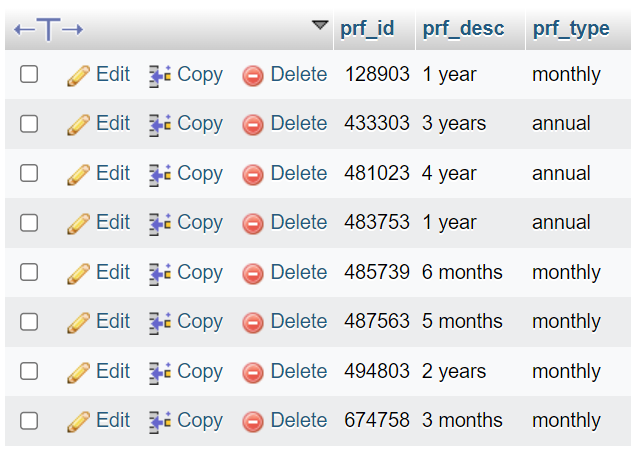
insert into profiles(prf\_id,prf\_desc,prf\_type) values (433303,'3 years','annual');

insert into profiles(prf\_id,prf\_desc,prf\_type) values (481023,'4 year','annual');

insert into profiles(prf\_id,prf\_desc,prf\_type) values (128903,'1 year','monthly');

insert into profiles(prf\_id,prf\_desc,prf\_type) values (494803,'2 years','monthly');

**Output:**



insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(111111,01,'cat','cat01');

insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(222222,02,'lizard','lizardhater007');

insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(333333,03,'iceberg','meltingforu');

insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(444444,04,'palimamali','jj@123');

insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(555555,05,'chris','jesuschrist');

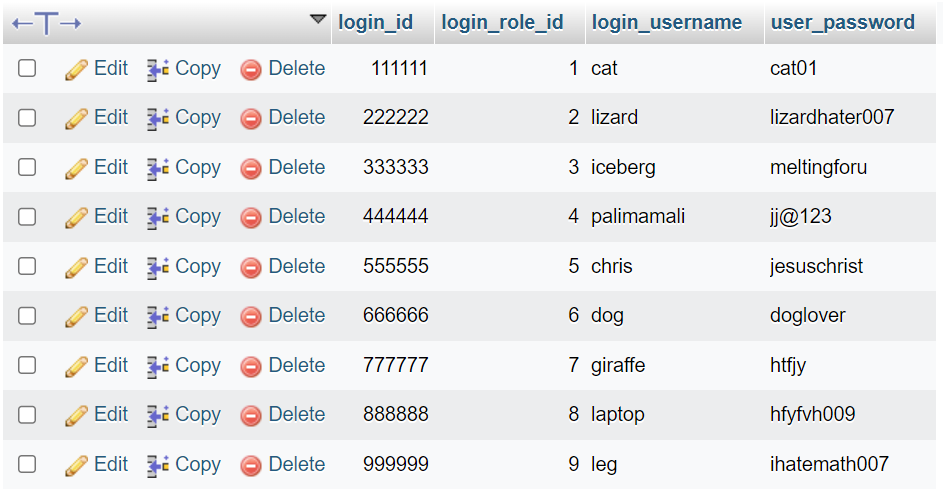
insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(666666,06,'dog','doglover');

insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(777777,07,'giraffe','htfjy');

insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(888888,08,'laptop','hfyfvh009');

insert into login(login\_id,login\_role\_id,login\_username\_user\_password) values(999999,09,'leg','ihatemath007');

**Output:**



insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(111111,2021-7-8,'cash','45654','Rs. 350');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(222222,2021-7-12,'cash','45345','Rs. 440');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(333333,2021-7-24,'online','4500','Rs. 850');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(666666,2021-5-8,'online','47654','Rs. 400');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(777777,2021-1-21,'cash','34788','Rs. 200');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(888888,2021-12-20,'UPI','34587','Rs. 350');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(555555,2021-11-9,'card','65454','Rs. 950');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(999999,2021-9-7,'cash','45654','Rs. 850');

insert into payment(pay\_id,pay\_date,pay\_desc,pay\_cus\_id,pay\_amt) values(444444,2021-8-21,'UPI','42341','Rs. 1150');

**Output:**



insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (101010,'Vaishnavi','vaish@gmail.com','no.1824, 10th cross, Bhopal 2nd stage','cat007',657657687);

insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (202020,'Ananya','lovelyanan@gmail.com','no.1, 1st cross, Bhopal 2nd stage','cat007',678590454);

insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (303030,'Aishwarya','depressedaish@gmail.com','no.133, 1st cross, BSK 2nd stage','juju8',8908765678);

insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (404040,'Rithika','rithu8@gmail.com','no.78, 1st cross, coimbatore 2nd stage','iuoi88',890096898);

insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (606060,'Gayathri','gaths@gmail.com','no.2352, 16th cross, Simla 2nd stage','hffgh007',990057687);

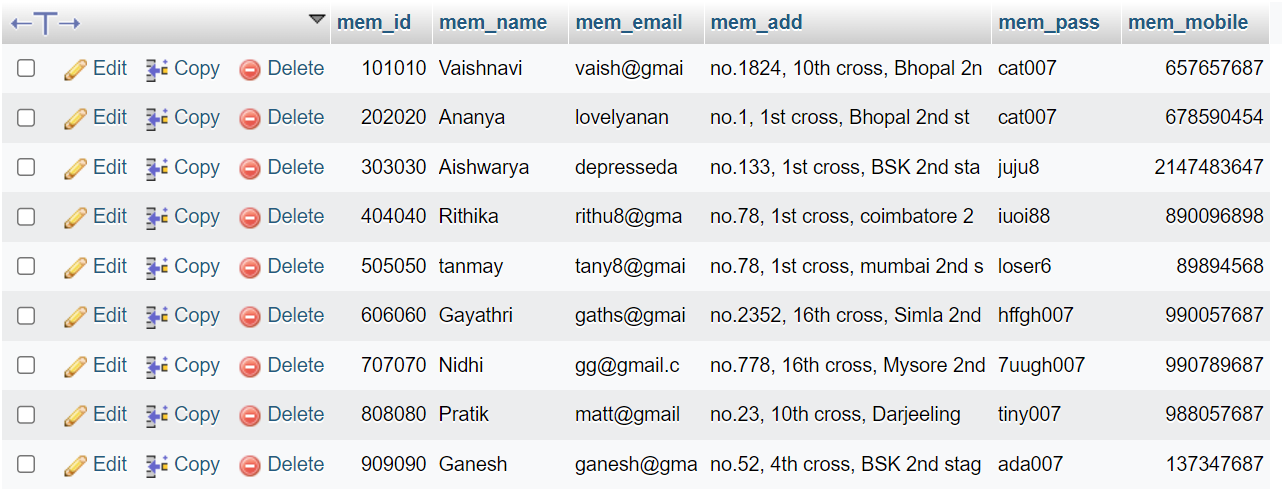
insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (707070,'Nidhi','gg@gmail.com','no.778, 16th cross, Mysore 2nd stage','7uugh007',990789687);

insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (808080,'Pratik','matt@gmail.com','no.23, 10th cross, Darjeeling 4th stage','tiny007',988057687);

insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (909090,'Ganesh','ganesh@gmail.com','no.52, 4th cross, BSK 2nd stage','ada007',137347687);

insert into member\_details(mem\_id,mem\_name,mem\_email,mem\_add,mem\_pass,mem\_mobile) values (505050,'tanmay','tany8@gmail.com','no.78, 1st cross, mumbai 2nd stage','loser6',89894568);

**Output:**



insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (101010,24758475,'student','regular',28392859);

insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (202020,2478292,'student','regular',48920402);

insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (303030,3242533,'employee','premium',48920908);

insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (404040,3289098,'admin','regular',90826472);

insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (505050,32111128,'employee','premium',99096472);

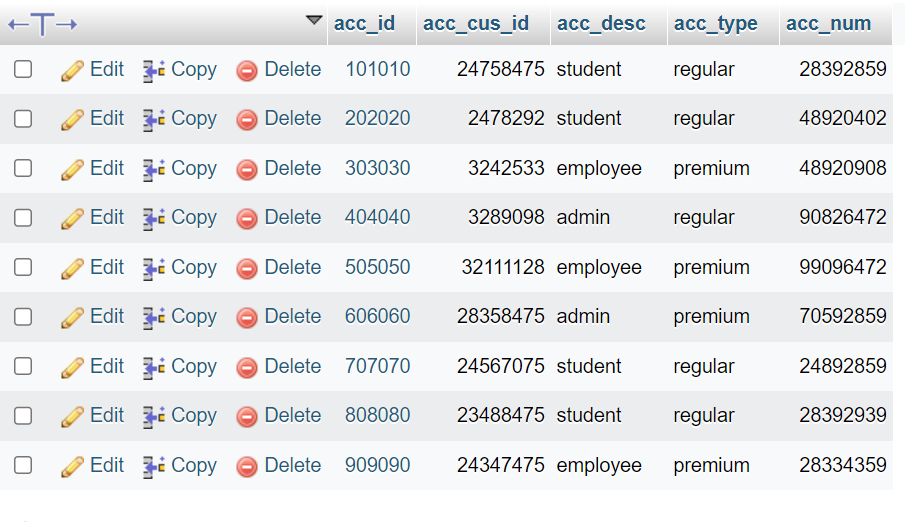
insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (606060,28358475,'admin','premium',70592859);

insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (707070,24567075,'student','regular',24892859);

insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (808080,23488475,'student','regular',28392939);

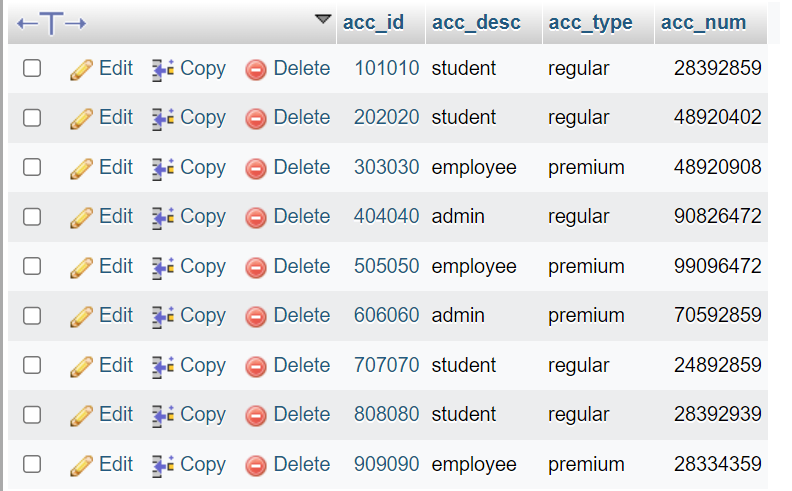
insert into accounts(acc\_id,acc\_cus\_id,acc\_desc,acc\_type,acc\_num) values (909090,24347475,'employee','premium',28334359);

**Output:**



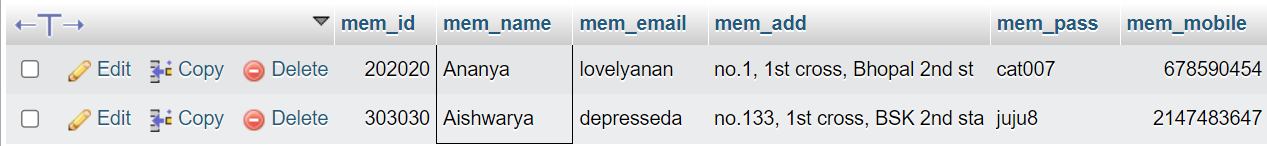
**Dropping a column:**

ALTER TABLE `accounts` DROP `acc\_cus\_id`;



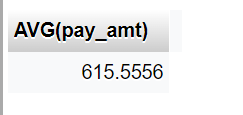
**Select member details of all members whose name starts with ‘A’:**

select \* from member\_details where mem\_name like 'a%';



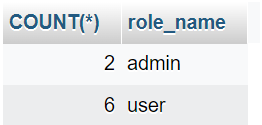
**Getting the average payment amount:**

select AVG(pay\_amt) from payment;



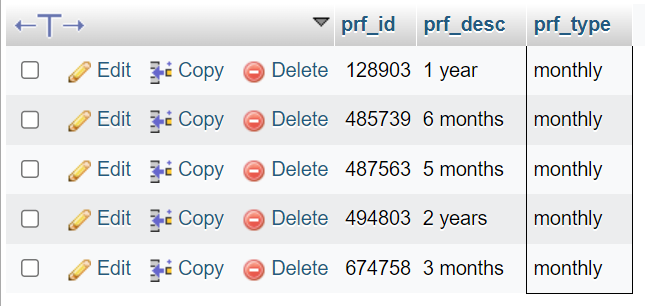
**Getting the counts of different roles:**

SELECT COUNT(\*),role\_name FROM roles GROUP BY role\_name;



**Getting profile details of ‘Monthly’ type:**

select \* from profiles where prf\_type='monthly';



**Executing JOIN:**

Select acc\_id,acc\_num from accounts JOIN roles on role\_desc=acc\_type;



**Executing UNION:**

select (mem\_id) from member\_details UNION select (acc\_num) from accounts;

