#### MY SQL Practice

Create a database.

Use the same database.

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database sju;

Query OK, 1 row affected (0.01 sec)

mysql> use sju;

Database changed
mysql>
```

Create a table employee with fields/attributes "emp\_id, emp\_name, designation, years\_of\_exp, age, city".

```
mysql> create table employee(emp_id int,emp_name varchar(20),designation varchar(20),yrs_exp int ,age int ,city varchar (20));
Query OK, 0 rows affected (0.03 sec)
```

#### Insert 5 records into employee.

```
mysql> insert into employee values(01,'rekha','analyst',2, 19, "banglore");
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values (02,'rohan','manager',3,20,'manglore');
Query OK, 1 row affected (0.00 sec)

mysql> insert into employee values (03,'gagan','hr',2.3,18,'mysore');
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values (04,'arjun','devloper',3,21,'mandya');
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values (05,'kiran','gamer',7,25,'delhi');
Query OK, 1 row affected (0.00 sec)
```

# Display the data from employee table

```
mysql> select * from employee;
 emp_id | emp_name | designation | yrs_exp | age
      1 | rekha
                    analyst
                                               19 | banglore
                                         2 |
                                         3 |
      2 | rohan
                     manager
                                               20 |
                                                    manglore
      3 | gagan
                    hr
                                         2 |
                                               18
                                                    mysore
      4 | arjun
                    devloper
                                         3 |
                                               21 |
                                                    mandya
      5 | kiran
                                         7 |
                                               25 | delhi
                    gamer
5 rows in set (0.00 sec)
```

Display emp\_id from employee table.

```
mysql> select emp_id from employee;
+-----+
| emp_id |
+-----+
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
+-----+
5 rows in set (0.00 sec)
```

Display emp id and emp name.

```
mysql> select emp_id, emp_name from employee;

+-----+

| emp_id | emp_name |

+-----+

| 1 | rekha |

| 2 | rohan |

| 3 | gagan |

| 4 | arjun |

| 5 | kiran |

+-----+

5 rows in set (0.00 sec)
```

Display the details of employee where the designation is "Manager",

Display the emp id and emp name of "Bangalore" employees.

```
mysql> select emp_id, emp_name from employee where city='banglore';
+-----+
| emp_id | emp_name |
+----+
| 1 | rekha |
+----+
1 row in set (0.00 sec)
```

Display the name of employees with age < 35.

```
mysql> select emp_name from employee where age<20;
+-----+
| emp_name |
+-----+
| rekha |
| gagan |
+-----+
2 rows in set (0.00 sec)
```

Display the employee data according to data name.

```
mysql> select * from employee order by emp_name;
emp_id emp_name designation yrs_exp age
                                                 city
      4 | arjun
                   devloper
                                        3 I
                                              21
                                                  mandya
                   hr
                                        2 |
      3 | gagan
                                              18
                                                  mysore
                                                  delhi
      5 | kiran
                    gamer
                                        7 |
                                             25
      1 | rekha
                   analyst
                                        2 |
                                              19 |
                                                  banglore
                                        3 I
      2 | rohan
                   manager
                                              20
                                                  manglore |
5 rows in set (0.00 sec)
```

Sort the data in ascending order.

```
mysql> select * from employee order by emp_id;
| emp_id | emp_name | designation | yrs_exp | age | city
      1 | rekha
                   analyst
                                              19 | banglore
                                        2 |
      2 | rohan
                   manager
                                        3 |
                                              20 | manglore
      3 | gagan
                                              18 | mysore
                                        2 |
                   hr
      4 | arjun
                   devloper
                                        3 |
                                              21 | mandva
      5 | kiran
                   gamer
                                        7 |
                                              25 | delhi
5 rows in set (0.00 sec)
```

Create a table employee 3 with the same structure and data of the employee table.

```
mysql> create table employee3 as select *from employee;
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select * from employee3;
| emp_id | emp_name | designation | yrs_exp | age | city
      1 | rekha
                   analyst
                                        2 |
                                             19 | banglore
      2 | rohan
                                                  manglore |
                   manager
                                       3 I
                                             20
      3 | gagan
                   hr
                                       2 |
                                             18
                                                  mysore
      4 | arjun
                   devloper
                                       3
                                             21
                                                  mandya
                                             25 I
      5 | kiran
                                        7 |
                                                  delhi
                   gamer
5 rows in set (0.00 sec)
```

Create a table employee 4 with the structure of employee and specific rows.

Create a database student.

```
mysql> create database stud;
Query OK, 1 row affected (0.01 sec)
mysql> use stud;
Database changed
```

Find out if we can have multiple columns with distinct.

```
mysql> select distinct name from stud_info;
 name
 abhi
 rohan
 hemu
3 rows in set (0.00 sec)
mysql> select distinct name,reg_no from stud_info;
name
       | reg_no |
 abhi
               1 |
 rohan |
 hemu
               3 |
 rohan |
4 rows in set (0.00 sec)
mysql> select distinct reg_no from stud_info;
| reg_no |
       1 |
       3 |
3 rows in set (0.00 sec)
```

Can we use star(\*) with distinct..?

```
mysql> select distinct * from stud_info;

+-----+

| reg_no | name |

+-----+

| 1 | abhi |

| 2 | rohan |

| 3 | hemu |

| 3 | rohan |

+-----+

4 rows in set (0.00 sec)
```

Insert the entered values into capital letters(changing case).

```
mysql> update employee_231bcada34 set city=upper(city);
Query OK, 5 rows affected (0.00 sec)
Rows matched: 5 Changed: 5 Warnings: 0
mysql> select * from employee_231bcada34;
 emp_id |
           emp_name
                      designation | yrs_exp |
                                               age
                                                      city
       1
           rekha
                      analyst
                                                 19
                                                      BANGLORE
                                           2
                                           2
       2
           rohan
                      manager
                                                 20
                                                      MANGLORE
                                           2
                                                      MYSORE
       3
           gagan
                                                 18
           arjun
                      developer
                                           3
                                                 21
                                                      MANDYA
       4
       5
           kiran
                      gamer
                                                 25
                                                      DELHI
 rows in set (0.00 sec)
```

Check whether the values entered into a table id case sensitive or not

```
mysql> select * from EMPLOYEE_231bcada34 WHERE city = "BANGLORE";
           emp_name
                     designation | yrs_exp | age
                                                     city
                      analyst
                                                     BANGLORE
          rekha
                                           2 I
                                                 19
1 row in set (0.00 sec)
mysql> select * from EMPLOYEE_231bcada34 WHERE city = "banglore";
                      designation | yrs_exp
  emp_id
           emp_name
                                                     city
                                              age
           rekha
                      analyst
                                                 19
                                                      BANGLORE
                                           2 I
 row in set (0.00 sec)
```

21. Find out whether 2 columns can be sorted together or not.

```
mysql> select * from employee_231bcada34 order by emp_name,city;
                      designation
 emp_id |
           emp_name
                                     yrs_exp
                                                age
                                                       city
       4
                       developer
                                                       MANDYA
           arjun
                                            3
                                                  21
                                                  18
                                                       MYSORE
       3
           gagan
                       hr
                                            2
       5
                                            7
           kiran
                                                  25
                                                       DELHI
                       gamer
                                                       BANGLORE
           rekha
       1
                       analyst
                                            2
                                                  19
           rohan
                                                       MANGLORE
       2
                       manager
                                            2
                                                  20
5 rows in set (0.00 sec)
```

22. Find out whether we can sort the column values.

Create a database SJU\_student

Use the same database.

Show all the databases created by the user.

26.Create a table student with fields/attributes "stud\_id, stud\_name, age, city, course, year(1,2,3), college name, add cred".

```
mysql> create table student (s_id int, s_name varchar(20), age int, city va
rchar(20),course char(20),yr int,clg varchar(20), additional_credit int);
Query OK, 0 rows affected (0.03 sec)

mysql> select* from student;
Empty set (0.00 sec)
```

27.Insert 5 values.

```
mysql> insert into student values(01, "rekha",19, "bengaluru","data analyti
cs",2,"sju",4)
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values(02, "rohan",20, "mysore","data analytics",2,"sju",4);
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values(03, "gagan",21, "mandya", "data science",1
."sju",3);
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values(04, "yogana",23, "hassan","bcom",4,"mcc",
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values(05, "sanju",25, "manglore","bba",4,"kjc",
Query OK, 1 row affected (0.00 sec)
mysql> select* from student;
 s_id | s_name | age
                                                              clg
                                                                     additional_credit
                        city
                                      course
                                                      yr
     1
         rekha
                    19
                         bengaluru
                                      data analytics
                                                          2
                                                               sju
                                                                                      4
                                                          2
                         mysore
     2
         rohan
                    20
                                      data analytics
                                                               sju
                                                                                      4
                                                          1
     3
                    21
                                                                                      3
         gagan
                         mandya
                                      data science
                                                               sju
                    23
                                                          4
     4
                         hassan
                                      bcom
                                                                                      5
         yogana
                                                               mcc
     5
                    25
                         manglore
                                      bba
                                                          4
                                                              kjc
                                                                                      2
         sanju
```

28. Display the structure of table.

Field	Type	Null	Key	Default	Extra
 s_id	   int	YES		NULL	
s_name	varchar(20)	YES		NULL	ĺ
age	int	YES		NULL	ĺ
city	varchar(20)	YES		NULL	ĺ
course	char(20)	YES		NULL	l
yr	int	YES		NULL	l
clg	varchar(20)	YES		NULL	l
additional_credit	int	YES		NULL	l

29. Display the information of 2nd year students from the city "Mysore".

```
mysql> select * from student where yr =2 and city ="mysore";

| s_id | s_name | age | city | course | yr | clg | additional_credit |

| 2 | rohan | 20 | mysore | data analytics | 2 | sju | 4 |

1 row in set (0.00 sec)
```

30. Display the information of student where the age < 20 or year is 1st year.

```
mysql> select * from student where age<20 or yr=1;
 s_id
        s_name
                  age
                         city
                                      course
                                                      | yr
                                                             | clg
                                                                      additional_credit
    1
         rekha
                    19
                         bengaluru
                                      data analytics
                                                               sju
     3
                    21
                                                                                       3
         gagan
                         mandya
                                      data science
                                                               sju
2 rows in set (0.00 sec)
```

31. Display the details of 1st year and 2nd year students.

```
mysql> select * from student where yr=2 or yr=1;
 s_id |
         s_name
                         city
                                      course
                                                      | yr
                                                               clg
                                                                       additional_credit
                  age
     1
         rekha
                    19
                         bengaluru
                                      data analytics
                                                           2
                                                               sju
                                                                                        4
     2
                    20
                                                                                        4
         rohan
                         mysore
                                      data analytics
                                                               sju
     3
                                                                                        3
         gagan
                    21
                         mandya
                                      data science
                                                           1
                                                               sju
3 rows in set (0.00 sec)
```

32. Display the different types of city.

33.Display the stud\_id, stud\_name and age according to their name in the descending order.

```
mysql> select s_id,s_name,age from student order by s_name desc;
  s_id
       | s_name | age
     4
         yogana
                     23
         sanju
                     25
     5
         rohan
     2
                     20
     1
         rekha
                     19
                     21
         gagan
 rows in set (0.00 sec)
```

34. Display the details of student except SJU.

s_id	s_name	age	city	course	yr	clg	additional_credit
4	yogana	23	hassan	bcom	4	mcc	   5
5	sanju	25	hassan   manglore	bba	4	kjc	] 2

## 35.Find orderby for all the columns

15	select *	Fires sti	udent order	by s_id;			
ld:	4_name	age	city	course	ye	clg	additional_credit
1	reidus	10	bengaluru	data analytics	2	«Ju	1
2.0	rohan	29	systore sandys	data analytics data science	2	eju eju	3
ű.	yegana	22	hassan	bcon	ü	BCC	
5	sanju	25	manglore	bbse	4	kje	
	in set (9						
-	-	-	udent order I				Hames and
14	*_name	-	city		ya.	cla	additional_credit
1	reidu	19	bengaTuru	data science data analytics	2	eju eju	1
	rohan	29	mysore:	data analytics	2	e]u	
9 2	wanju vogana	25	hastan	bcos	4 4	k]c scc	1
	10000	-					
	In set (9						
-	-		udent order I				
14	4_name	Age	city	course	An.	cla	additional_credit
1 2	reicha	10	bengaluru	data analytics	9.0	eju.	1 1
3	gagan	21	systore sandys	data analytics data science	í	eju eju	1
	yegana	22	hacean	bcos	- 4	BCC	
5	manju	25	manglore	bba	4	kje	
۳	in set (9	.00 Mac	2				
1.5	select *	Fires at	udent order I	by city;			
1d	4_name	age	city	course	yw.	cla	additional_credit
1	reidus	19	bengaluru	data analytics	2	eju .	1 3
3 19	Sedan.	22	hactan mandya	data science	9	eju	
5	sanju	25	manglore	bba	- 4	kje	10 10
2	Johan In set (8	29	systoms	data analytics	2		
2	I sohen In set (9	.00 sac	systoms	data analytics			
2 es 15	schan in set (9 select *	.00 sec from str	) system	data analytics by course;			
2 ls ld S	schan in set (9 select *	29 .00 sec from str lage 25	mystorm     udent order	data analytics by course;	ye u	s]u	additional_credit
2 15 14 15 1	In set (9 select +   t_name   tanju   yogana	29 sec from sto age 25 22	mysors     udent order     city   manglors   hassan	data analytics  by course;  course  bba bccs	ye u	e]u clg kjc scc	additional_credit
2 ls id s	schin  in set (9  select +   s_name   sanju	29 29 25 22 19 29	mysors     city   manglors   hasten   bengaluru	data analytics by course; course bbs bcs data analytics data analytics	ye u	eju cig kjc	additional_credit
15 1d 5 H	rohan   n set (0 select *   s_name   sanju   yogana   reiha	29 29 20 25 22 19	mysors     udent order     city   manglors   hassan	data analytics  by course;  course  bboa  bcos  data analytics	ye u u	e]u clg kjc ecc eju	additional_credit
2 15 14 5 14 1 2 2	rohan   n set (9   select *   select *   select   select   rohan	29 sec from str age 25 22 19 20 21	mysore  city  sanglore factan bengaluru sycore sandya	data analytics by course; course bbs bcs data analytics data analytics	98 H H 2 2 2	eju cig kje nce eju eju	additional_credit
2 est 15 ld S H 1 2 2 est	sohin   In set (9 select *   s_name   sanju   yogana   sehia   sohin   gagan   In set (9 select *	29 asc from att	mysore  city  sanglore factan bengaluru sycore sandya	data analytics by course; course boa bose data analytics data science	98 H H 2 2 2	eju cig kje nce eju eju	additional_credit
2 et 15 id 5 id 1 2 2 et 15	sohin   In set (9   select *   sunder   senju   yegana   sehia   sohin   gagan   ln set (9   select *	29 asc from att	systems  Liter corder    Lity  samplore    havian    bengaluru    system    mardya	data analytics by course; course boa bose data analytics data science	98 H H 2 2 2	eju cig kje nce eju eju	additional_credit
2 et 15 id 5 id 2 2 et 15 id 2	solar (9 select * solar (2 solar (3 solar (3 solar (4)	29 .00 sec from str 499 .25 .29 .20 .20 .21 .50 sec from str 499 .21	mysome ) usent order   city sangtone havear bengaluru sysome sandya ) usent order   city sandya	data analytics  by course;  course  bba  bcos  data analytics  data analytics  data analytics  data science  by ys;  course  data science	98 4 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eju cig kje eju eju eju	additional_credit
2 et 15 11 2 2 et 15 11 2 1	sohen In set (9 select + s_nees senju yopens sehen gegen In set (9 select + s_nees	29 .00 sec from sti .00 sec .25 .20 .20 .21 .00 sec .70 .400 sec .70 .70 .70 .70 .70 .70 .70 .70 .70 .70	mysorm ) usent order   city sanglore hassan bengaluru sycore mardya ) usent order   city sandya bengaluru bengaluru	data analytics  by course;  course  boa  bose  data analytics data analytics data analytics data acience  by ye;  course  data science data acience data acience data analytics data acience data acience data acience data acience data aralytics	ye   ye   1   2   2   1   1   2   2   1   1   2   2	clq kjc scc eju eju clq clq	additional_credit
2 4 4 5 4 1 2 2 4 4 4 2 1 2 4	zohan   Ln cet (9 select +   s_name   select +   sohan   gagan   Ln cet (9 select +   s_name   gagan   zohan   zohan	29 29 29 21 29 21 29 29 29 29 29 29 29 29 29 29 29 29 29	mysorm ) usent order   city manglore fastan bengaluru mysorm mandya ) usent order   city mandya bengaluru mysorm mandya hastan hastan	data enalytics  by course;  course;  boa  bos  data analytics data analytics data science  by yr;  course  data science data analytics data science data analytics data science by analytics data science data analytics	ye u u u u u u u u u u u u u u u u u u u	eju kje ece eju eju eju eju eju	additional_credit
2 00 10 10 10 10 10 10 10 10 10 10 10 10	zohan  In set (9 select +  s_name senju yogana zohan sohan gagan In set (9 select +  s_name gagan zohan yogana zohan yogana	29 asc from att 25 22 29 20 21 490 asc 45 29 29 29 21 29 29 29 29 29 29 29 29 29 29 29 29 29	mysorm )  alent order    city  manglore hassan bengaluru mysorre mandya )  alent order    city  mandya bengaluru mysore hassan manglore	data enalytics  by course;  course  bba  bose  data enalytics data enalytics data ecience  by ye;  course  data science  data enalytics	yw   1   1   2   2   2   2   2   2   2   2	eju kje nec eju eju eju eju eju eju eju	additional_credit
2 mt 15 11 12 2 mt 15 11 2 1 2 1 2 1 5 mt	I zohan  In cet (9 cellect e canju yegane zeha zohan gegan in cet (9 cellect e coha zohan yegane zohan yegane zohan yegane zohan yegane zohan	29 .00 sec from str age 25 22 19 20 21 .00 sec from str age 21 19 20 22 25 20 20 20 20 20 20 20 20 20 20 20 20 20	mysorm ) usent order   city manglore hassan bengaluru mysorm mandya ) usent order   city mandya bengaluru mysorm hassan hassan manglore )	data analytics  by course;  course;  boa  bos  data analytics	ye u u u u u u u u u u u u u u u u u u u	eju kje ece eju eju eju eju eju	additional_credit
2 mt la id Silian mt la id 21245 mt la	I sohan  In set (9 select * s_name sanju yogana sohan gagan in set (9 select * s_name gagan soha yogana soha sohan yogana in set (9 select *	29 29 29 21 29 29 29 29 29 29 29 29 29 29 29 29 29	mysorm ) usent order   city manglore hacoun bengaluru mysorm mandya ) usent order   city mandya bengaluru mysorm hacoun manglore ) usent order	data analytics  by course;  course  bba  bose data analytics data analytics data science  by yr;  course  data science data analytics data science by yr;  course  data science bose bba	ye	clg kjc sju sju clg sju sju sju kje kje kje kje kje kje kje kje	additional_credit
2 mt 15 id 5 id 2 i 2 id 2 id id	zohan   zohan   in set (9 select * s_name   sanju   yogana   zohan   gagan   sanju   sohan   yogana   sohan   yogana   zohan   yogana   sanju   n set (9 select * s_name   sanju   n set (9 select * s_name   s_name   sanju	20 asc 4 age 25 22 25 26 asc 4 age 21 age 22 25 26 asc 4 age 21 age 25 25 26 asc 4 age 25 age	mysorm ) usent order   city manglore hacom bengaluru mysore mandya ) usent order   city mandya bengaluru mysore hacom hacom manglore ) usent order	data analytics  by course;  course  boa  bose  data analytics data analytics data science  by ye;  course  data science  data science  by ye;  course  data analytics data analytics boa  by clg;  course	ye u u u u u u u u u u u u u u u u u u u	clq kjc sc sju clq sju clq sju kjc	additional_credit
2 et la id Silia 2 1 2 2 2 5 et la	I sohan  In set (9 select * s_name sanju yogana sohan gagan in set (9 select * s_name gagan soha yogana soha sohan jagan soha soha soha soha soha soha soha soha	20 asc 4 age 25 22 25 26 asc 4 age 21 age 22 25 26 asc 4 age 21 age 25 25 26 asc 4 age 25 age	mysorm ) usent order   city manglore hacoun bengaluru mysorm mandya ) usent order   city mandya bengaluru mysorm hacoun manglore ) usent order	data analytics  by course;  course  bba  bose data analytics data analytics data science  by yr;  course  data science data analytics data science by yr;  course  data science bose bba	ye	clg kjc sju sju clg sju sju sju kje kje kje kje kje kje kje kje	additional_credit
2 00 15 16 16 16 16 16 16 16 16 16 16 16 16 16	In cet (9 carlect e canju yogaria zehan in cet (9 carlect e canju in cet (9 carlect e canju in cet (9 carlect e canju yogaria	200 and from att a special spe	mysorm )  abent order   city  manglore fastarn bengaluru mysorm mandya )  alent order   city  mandya bengaluru mysorm hastarn manglore ) alent order   city  manglore ) alent order	data analytics  by course;  course;  boa  bos  data analytics bos  bos  by clg;  course  bba  bos  data analytics	) ye	clg kjc sclu clg kjc sclu sju clg kjc kjc kjc kjc kjc	additional_credit
2 00 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	zohan   zohan   In cet (9 ce   cen   u   cen	200 and from at a special spec	systems  ) usent order  city  sanglore hactan bengaluru system city  sandya  dent order  city  sandya  bengaluru system hactan  sanglore hactan  city  sanglore hactan sanglore hactan systems sanglore hactan systems systems	data analytics by course; course bos bos data analytics data analytics data science  by yv; course data analytics data analytics data analytics data analytics bos bos bos bos bos bos course bos bos course bos bos bos course bos bos bos bos bos course bos	30 Mg	clq kjc spu clq	additional_credit
2 00 15 14 521122 00 15 14 21225 00 15 14 521122	zohan     zohan	200 sec from str spe 25 22 20 21 30 20 21 400 400 400 400 400 20 400 400 400 400	systems ) usent order   city   sanglore     hattan     bengaluru     system     city   sandya     city   sandya     city   sandya     city   sandya     city   sandya     city   sanglore     city   sanglore     city   sanglore     city   sanglore	data analytics  by course;  course;  boa  bos  data analytics bos  bos  by clg;  course  bba  bos  data analytics	) ye	clg kjc sclu clg kjc sclu sju clg kjc kjc kjc kjc kjc	additional_credit
2 mm 15 iid Sii 122 mm 15 iid Sii 122 mm	rohan  In set (9 select *  c_name sanju yogaria rohan gigan In set (9 select *  c_name salact *  c_name sanju in set (9 select *  c_name sanju yogaria sanju	200 and from att app 25 22 25 30 and app 25 22 25 30 and app 25 30 and app 30 and	systems  city  sanglore hasten bengalaru system sandya  city sandya  adent order  city sandya  adent order  city sandya  bengalaru system hasten bengalaru system  city sandya bengalaru system hasten  city sanglore hasten bengalaru system hasten bengalaru system hasten bengalaru system hasten bengalaru system hasten	data analytics by course; course; boas boss data analytics data analytics data science by y*; course data science bos boss boss boss boss boss boss boss	ye u u u u u u u u u u u u u u u u u u u	clq kjc spu clq	additional_credit
2 mm 10 11 12 2 mm 15 11 2 1 2 2 2 5 mm 15 11 11 2 2 2 mm 15 11 11 2 2 2 2 mm 15 11 11 2 2 2 mm 15 11 11 12 2 2 mm 15 11 11 11 12 2 2 mm 15 11 11 11 11 11 11 11 11 11 11 11 11	sohan   In cet (9 ce   e.name   eanju   yogaria   sohan   gagan   recha   sohan   sohan   sohan   sohan   sohan   sohan   yogaria   eanju   yogaria   eanju   yogaria   eanju   yogaria   sohan   yogaria   eanju   yogaria   eanj	200 and from att app 25 22 25 25 26 and 420 25 22 25 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	mysorm ) usent order   city   sangtore     hastern     bengalturu     sandya     usent order     city   sandya     sandya     bengalturu     sandya     bengalturu     sandya     bengalturu     sandya     bengalturu     sangtore     tatty     sangtore     tatty     sangtore     tatty     sangtore     tatty     sangtore     sangto	data analytics by course; course; boa bos data analytics	ye     ye         ye	eju  clg kje scu eju  clg eju eju  clg eju	additional_credit
2 E 14 IS SECOND E 14 IS SECOND E 14 IS SECOND E 14 IS	rohan  In set (9 select e  Linese  Linese  Linese  Linese (9 select e	200 and From att a special spe	mysorm ) usent order   city   sangtore     hastern     bengaluru     sandya     usent order     city   sangtore     sandya     sandya     sandya     sandya     sandya     sandya     sandya     sandya     sangtore     hastern     sangtore     city     sangtore     hastern     sangtore     hastern     sangtore     sangtore     hastern     sangtore     sang	data analytics by course; course; boa bos data analytics data analytics data science by ye; course data analytics	ya   ya     ya       ya         ya	clg kjc sclu clg	additional_credit  additional_credit  additional_credit
2 5 5 14 5 1 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	I sohin  In cet (9 callect * c_name canju yoquna sohin gagan in cet (9 callect * c_name gagan sohin so	200 and from att appe 25 22 25 25 25 25 25 25 25 25 25 25 25	mysorm ) userst order   city manglore hacean bengaluru mysorm mandya ) userst order   city mandya bengaluru mysorm hacean hacean bargaluru mysorm anglore ) userst order   city manglore hacean bengaluru mysorm mysorm hacean city manglore city manglore city manglore city manglore mandya	data analytics  by course;  course;  course  boa  bose  data analytics data science  by additional_cre- course  bba	ye     ye	eju  clq kje mcc eju	additional_credit  additional_credit  additional_credit
2 m s dd 5111222 m s dd 212215 m s dd 5111222 m s s dd 5211	sohan  In set (9 select * s_name sanju yogana sohan gagan in set (9 select * s_name gagan sohan yogana sohan soha	200 and from the second	systems    subsect order     city	data analytics  by course;  course;  course;  boa  bose  data analytics	ye   u   u   u   u   u   u   u   u   u	clq ide	additional_credit  additional_credit  additional_credit
2 es de	I sohin  In cet (9 callect * c_name canju yoquna sohin gagan in cet (9 callect * c_name gagan sohin so	200 and from att age 25 22 25 25 25 25 25 25 25 25 25 25 25	mysorm ) userst order   city manglore hacean bengaluru mysorm mandya ) userst order   city mandya bengaluru mysorm hacean hacean bargaluru mysorm anglore ) userst order   city manglore hacean bengaluru mysorm mysorm hacean city manglore city manglore city manglore city manglore mandya	data analytics  by course;  course  bos  bos  data analytics data analytics data science  data analytics data science  data analytics	ya   ya     ya       ya	clg kjc sclu clg	additional_credit  additional_credit  additional_credit

## Show all existing databases

Create a database student 04 and use the same database

```
mysql> create database stud_34;
Query OK, 1 row affected (0.01 sec)
mysql> use stud_34;
Database changed
mysql> |
```

Create a table student with id, name, year, department, college and city, insert 5 values

( note : I already have similar table create in another database so here im creating a table woth same structure and data of the table from another database

```
mysql> create table stud_34.student_34 like sju.student;
Query OK, 0 rows affected (0.02 sec)
mysql> insert into stud_34.student_34 select * from sju.student;
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select * from student_34;
 s_id | s_name | age | city
                                                                        | clg
                                                                                   additional_credit
                        19 | bengaluru | data analytics |
                                                                      2 | sju
        | rohan |
                        20 | mysore
                                          | data analytics |
                                                                      2 | sju |
        | gagan |
                        21 | mandya
                                           | data science |
                                                                      1 | sju |
        | yogana |
                        23 | hassan
                                           bcom
                                                                      4 | mcc |
                        25 | manglore | bba
                                                                      4 | kjc |
5 rows in set (0.00 sec)
```

Display all the details

update the college names to sju and display all details

```
mysql> update student_34 set clg="sju";
Query OK, 2 rows affected (0.00 sec)
Rows matched: 5 Changed: 2 Warnings: 0
mysql> select * from student_34;
                                                                               | clg
  s_id | s_name | age
                                 city
                                                                                           additional_credit
                                               course
                                                                      | yr
      1
            rekha
                           19
                                 bengaluru
                                                 data analytics
                                                                            2 2 1
                                                                                  sju
                                                                                 sju
sju
sju
      2
            rohan
                           20
                                 mysore
                                                 data analytics
      3
            gagan
                          21
                                 mandya
                                                 data science
                                                                            4
      ш
                           23
            yogana
                                 hassan
                                                 bcom
                           25
                                                                                                                2
      5
            sanju
                                 manglore
                                                 bba
                                                                            4
                                                                                 sju
  rows in set (0.00 sec)
```

Update city into Bengaluru where city is Bangalore and then display

```
mysql> update student_34 set city="banglore" where city="bengaluru";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from student_34;
                                                                 clg
  s_id
                                                                        additional_credit
       | s_name | age
                           city
                                       course
                                                        yr
                                                                sju
sju
sju
sju
                                                                                          4
     1
         rekha
                     19
                           banglore
                                       data analytics
                                                            2
                                                            2
1
                                       data analytics
                                                                                         4
         rohan
                     20
                           mysore
     3
                     21
                           mandya
                                       data science
         gagan
                     23
                           hassan
                                                                                          5
         yogana
                                       bcom
                                                                 sju
                                                                                          2
     5
         sanju
                      25
                           manglore
                                       bba
                                                            4
5 rows in set (0.00 sec)
```

Display all the details of student whose name starts with a

Name ends with a

1st and last letter is a

2nd character is n

3rd character is e

Name with 6 characters

Name with 6 characters and has 2nd letter as n

Name which has letter a in between

Insert a new row with first and last name and fetch the details using last name

```
mysql> select * from student_34 where s_name like "a%";
Empty set (0.00 sec)
mysql> select * from student_34 where s_name like "%a";
| s_id | s_name | age | city
                                                   | yr
                                                                 | additional_credit |
                                  course
                                                          clg
                    19
                        banglore
                                    data analytics
                                                            sju
     4 | yogana
                    23 | hassan
                                    bcom
                                                        4 1
                                                            sju
                                                                                    5 |
2 rows in set (0.00 sec)
mysql> select * from student_34 where s_name like "a%a";
Empty set (0.00 sec)
mysql> select \star from student_34 where s_name like "_n"; Empty set (0.00 sec)
mysql> select * from student_34 where s_name like "__e";
Empty set (0.00 sec)
mysql> select * from student_34 where s_name like "___
| s_id | s_name | age | city | course | yr | clg | additional_credit |
                   23 | hassan | bcom
                                              4 | sju
                                                                         5 |
    4 | yogana |
1 row in set (0.00 sec)
mysql> select * from student_34 where s_name like "_n___";
Empty set (0.00 sec)
mysql> select * from student_34 where s_name like "%a%";
| s_id | s_name | age
                       city
                                                                 | additional credit |
                                  course
                                                          clg
                                                    Vr
                                    data analytics
        rekha
                    19
                         banglore
                                                            sju
                                                                                    4
         rohan
                    20
                         mysore
                                    data analytics
                                                            sju
                                                                                    4
         gagan
                    21
                         mandya
                                    data science
                                                            sju
         yogana
                    23
                         hassan
                                    bcom
                                                            sju
                    25
         sanju
                         manglore
                                                            sju
5 rows in set (0.00 sec)
mysql> insert into student_34 values(6,"rekha shree",20,"hydrabad","business analyst",3,"sju",5
Query OK, 1 row affected (0.00 sec)
mysql> select * from student_34 where s_name like "%shree";
                                                                         | additional_credit |
 s_id | s_name
                     age | city
                                       course
                                                           | yr
                                                                  clg
     6 | rekha shree |
                         20 | hydrabad | business analyst |
                                                                                           5 |
                                                               3 | sju
1 row in set (0.00 sec)
mysql>
```

#### Adding a new column country and then display

```
mysql> alter table student_34 add country varchar(20);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from student_34;
  s_id | s_name
                                   city
                                                                                   | clg
                                                                                            | additional_credit | country |
                             age
                                                  course
                                                                          | vr
      1 2
                                      banglore
                                                    data analytics
                                                                                                                        NULL
                                                                                     sju
                                                                                    sju
sju
sju
sju
           rohan
                                20
                                      mysore
                                                    data analytics
                                                                                                                   4
                                                                                                                        NULL
                                21
                                                                                                                   3
                                                                                                                        NULL
           gagan
                                      mandya
                                                    data science
                                23
                                      hassan
                                                                                                                        NULL
           yogana
sanju
                                                    bcom
                                      manglore
                                                                                                                        NULL
           rekha shree
                                20
                                      hydrabad
                                                    business analyst
                                                                                     sju
                                                                                                                        NULL
```

## Display the structure of the table

Field	Type	Null	Key	Default	Extra
s_id	int	YES	i	NULL	i
s_name	varchar(20)	YES	1	NULL	1
age	int	YES	İ	NULL	ľ
city	varchar(20)	YES		NULL	1
course	char(20)	YES		NULL	1
yr	int	YES		NULL	ĺ
clg	varchar(20)	YES		NULL	1
additional_credit	int	YES		NULL	
country	varchar(20)	YES	1	NULL	ĺ

## Update the values for country column to india and display

```
Query OK, 6 rows affected (0.01 sec)
Rows matched: 6 Changed: 6 Warnings: 0
mysql> select * from student_34;
  s_id | s_name
                                                                  clg
                                                                          additional credit
                                                                                             Lountry
                            city
                      age
                                         course
                                                           yr
                                                                   sju
sju
sju
sju
         rekha
                         19
                              banglore
                                         data analytics
                                                                                               india
     1
         rohan
                         20
                                         data analytics
                                                                                               india
                              mysore
                              mandya
                                         data science
                                                                                               india
         gagan
                         23
                              hassan
                                         bcom
                                                                                               india
         yogana
         sanju
                         25
                              manglore
                                                                                               india
                                                                    sju
         rekha shree
                              hydrabad
                                         business analyst
                                                                    sju
                                                                                               india
6 rows in set (0.00 sec)
```

#### Rename a column name

```
mysql> alter table student_34 rename column additional_credit to add_cred;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

## Demonstrate in statemant

```
mysql> select * from student_34 where city in ("manglore","hydrabad");
 s_id | s_name
                       age
                              city
                                          course
                                                                     clg
                                                                            add_cred
                                                                                        country
                                                             yr
     5
                         25
                              manglore
                                          bba
                                                                 4
                                                                                        india
                                                                     sju
                         20
                              hydrabad
                                                                 3
                                                                                    5
                                                                                        india
     6
        rekha shree
                                          business analyst
                                                                     sju
 rows in set (0.00 sec)
```

13.Create a table student 1 with the colname of datatype varchar(7),enter a value to it with more than 5 char

```
mysql> create table student_1(name varchar(7));
Query OK, 0 rows affected (0.02 sec)
mysql> insert into student_1 values("rekhashree");
ERROR 1406 (22001): Data too long for column 'name' at row 1
mysql>
```

14. Modify the column and change the datatype to varchar(2)

```
mysql> alter table student_1 modify name varchar(20);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> insert into student_1 values("rekhashree");
Query OK, 1 row affected (0.00 sec)
```

Q1) Show all the databases created by the user.

Q2) Create new database lab1.

```
mysql> CREATE DATABASE LAB_1;
Query OK, 1 row affected (0.03 sec)
```

Q3) Create table employee 231BCADA58(your reg. no.) with the following attributes.

Empid varchar(10)	Ename varchar(20)	DOB	Designatio n	Dept	Salary	City	Gender
		date	Varchar(30)	Char(20 )	Decimal(7,2)	Varchar(20)	Char(8)

#### Q4) Insert 10 records.

```
mysql> insert into emp_231bcada34 values("E130", "Jack","1997-01-30","CFO","Accountst",75000,"Davangere","Male");
Query OK, 1 row affected (0.01 sec)
mysql> insert into emp_231bcada34 values("E131", "Peter","1988-01-30","CtO","IT",34000,"Chittur","Male");
Query OK, 1 row affected (0.00 sec)
```

## Q5) Display the data.

emp_id	name	dob	designation	dept	salary	city	gender	pincode
E123	Rahul	1990-01-30	Manager	+   HR	80000.00	Bengaluru	Male	56
E124	Rohan	1991-01-30	Dept.Manager	HR	70000.00	Mysore	Male	76
E125	Ramya	1992-01-30	Vice-president	Corporation	72000.00	Hassan	Female	86
E126	Ananya	1993-01-30	ceo	C-Suite	57000.00	Chennai	Female	26
E127	Bhavya	1994-01-30	сто	Marketing	28000.00	Chitradurga	Female	23
E128	Akhil	1995-01-30	Ass.Vice president	corporation	29000.00	Manglore	Male	46
E129	Nishitha	1996-01-30	MD	Management	60000.00	Udupi	Female	26
E130	Jack	1997-01-30	CFO	Accountst	75000.00	Davangere	Male	86
E131	Peter	1988-01-30	Cto	IT	34000.00	Chittur	Male	46

## Q6) Display the structure of the table.

ield	Type	Null   Key	Default   Extra
emp_id	varchar(10)	YES	NULL
name	varchar(20)	YES	NULL
dob	date	YES	NULL
designation	varchar(40)	YES	NULL
dept	char(20)	YES	NULL
salary	decimal(7,2)	YES	NULL
city	varchar(20)	YES	NULL
gender	char(15)	YES	NULL

## Q7) Add a column pincode and insert values in it.

```
mysql> alter table emp_231bcada34 add pincode int;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> update emp_231bcada34 set pincode=case
-> when city = "bengaluru" then 56
-> when city = "chennai" then 26
-> when city = "chitradurga" then 23
-> when city = "manglore" then 46
-> when city = "udupi" then 26
-> when city = "davengere" then 86
-> when city = "chittur" then 46
-> end;
Query OK, 3 rows affected (0.01 sec)
Rows matched: 9 Changed: 3 Warnings: 0
```

Q9) Arrange data according to empid, descending order.

```
mysql> select * from emp_231bcada34 order by emp_id desc;
 emp_id | name
                    dob
                                   designation
                                                         dept
                                                                                    city
                                                                                                            pincode
                                                                        salary
                                                                                                   gender
 E131
          Peter
                      1988-01-30
                                    CtO
                                                                         34000.00
                                                                                    Chittur
                                                                                                   Male
                                                                                                                  46
                                                          IT
 E130
                      1997-01-30
                                    CFO
                                                          Accountst
                                                                         75000.00
                                                                                    Davangere
                                                                                                   Male
                                                                                                                  86
          Jack
 E129
          Nishitha
                      1996-01-30
                                                          Management
                                                                         60000.00
                                                                                                   Female
                                                                                                                  26
                                    MD
                                                                                    Udupi
 E128
                                                                         29000.00
                                                                                    Manglore
                                                                                                                  46
          Akhil
                      1995-01-30
                                    Ass. Vice president
                                                          corporation
                                                                                                   Male
                                                                         28000.00
                                                                                                                  23
 E127
                      1994-01-30
                                                          Marketing
                                                                                    Chitradurga
          Bhavya
                                                                                                   Female
                                    cmo
          Ananya
                                                                         57000.00
                                                                                                                  26
 E126
                      1993-01-30
                                                          C-Suite
                                                                                    Chennai
                                                                                                   Female
 E125
                      1992-01-30
                                                          Corporation
                                                                         72000.00
                                                                                                                  86
          Ramya
                                    Vice-president
                                                                                                   Female
                                                                                    Hassan
                                    Dept.Manager
 E124
          Rohan
                      1991-01-30
                                                                         70000.00
                                                                                                   Male
                                                                                                                  76
                                                                                    Mysore
                                                                                                                  56
          Rahul
                      1990-01-30
                                                          HR
                                                                         80000.00
                                                                                    Bengaluru
                                                                                                   Male
 E123
                                    Manager
 rows in set (0.01 sec)
```

Q10) Arrange the data according to names of the employee, ascending order.

```
mysql> select * from emp_231bcada34 order by name;
 emp id
                     dob
                                     designation
           name
                                                           dept
                                                                         salary
                                                                                      city
                                                                                                     gender
                                                                                                              pincode
 E128
           Akhil
                       1995-01-30
                                     Ass. Vice president
                                                           corporation
                                                                          29000.00
                                                                                      Manglore
                                                                                                     Male
                                                                                                                    46
                                                                                                     Female
 E126
                       1993-01-30
                                                           C-Suite
                                                                          57000.00
                                                                                                                    26
                                                                                      Chennai
           Ananya
                                     ceo
           Bhavya
                       1994-01-30
                                                                          28000.00
                                                                                      Chitradurga
                                                                                                     Female
                                                                                                                    23
 E127
                                                           Marketing
                                     cmo
                       1997-01-30
                                     CFO
                                                                          75000.00
                                                                                                     Male
 E130
                                                           Accountst
                                                                                      Davangere
                                                                                                                    86
           Jack
           Nishitha
                                                           Management
                                                                                                     Female
                       1996-01-30
                                     MD
                                                                          60000.00
                                                                                                                    26
 E129
                                                                                      Udupi
                                                                                                     Male
 E131
           Peter
                       1988-01-30
                                     Cto
                                                           IT
                                                                          34000.00
                                                                                      Chittur
                                                                                                                    46
           Rahul
                                                                          80000.00
                                                                                      Bengaluru
 E123
                       1990-01-30
                                     Manager
                                                           HR
                                                                                                     Male
                                                                                                                    56
                                    Vice-president
Dept.Manager
                       1992-01-30
                                                                          72000.00
                                                                                                     Female
                                                                                                                    86
 E125
           Ramya
                                                           Corporation
                                                                                      Hassan
                                                                                                     Male
                                                                                                                    76
           Rohan
                       1991-01-30
                                                                          70000.00
 E124
                                                           HR
                                                                                      Mysore
 rows in set (0.00 sec)
```

Q11) Display the minimum salary and maximum salary.

Q12) Update salary to 75,000 if the department is accounts and the post is deputy manager.

```
mysql> update emp_231bcada34 set salary= 75000 where dept='Accountst' and designation ='Dept.manager';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

Q13) Display the information of employee where the salary is less than 30,000.

```
mysql> select *from emp_231bcada34 where salary<30000;
 emp_id |
          name
                                 designation
                                                      dept
                                                                   salary
                                                                              | city
                                                                                             gender
                                                                                                       pincode
 E127
                    1994-01-30
                                                      Marketing
                                                                     28000.00
                                                                                Chitradurga
                                                                                               Female
                                                                                                             23
           Bhavya
                                 cmo
 E128
                                                                                                             46
          Akhil
                    1995-01-30
                                 Ass. Vice president
                                                      corporation
                                                                     29000.00
                                                                                Manglore
                                                                                              Male
 rows in set (0.00 sec)
```

Q14) Update the city to Bengaluru and department to marketing if the empid is either 124 or 125.

```
mysql> update emp_231bcada34 set city="Bengaluru", dept = "marketing" where emp_id = "E124" or emp_id ="E125";
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

Q15) Create table employee1 with the same structure and data of employee.

```
mysql> create table emp_1 as select *from emp_231bcada34;
Query OK, 9 rows affected (0.06 sec)
Records: 9 Duplicates: 0 Warnings:
                            Warnings: 0
mysql> select * from emp_1;
  emp_id | name
                      dob
                                    designation
                                                            dept
                                                                           salary
                                                                                       city
                                                                                                       gender | pincode |
            Rahul
                        1990-01-30
                                      Manager
                                                              HR
                                                                             80000.00
                                                                                         Bengaluru
                                                                                                         Male
                                                                                                                         56
                                                              marketing
                                                                             70000.00
72000.00
57000.00
  E124
            Rohan
                        1991-01-30
                                      Dept.Manager
                                                                                         Bengaluru
                                                                                                         Male
                                                                                                                         76
  E125
                        1992-01-30
                                                                                                                         86
            Ramya
                                      Vice-president
                                                              marketing
                                                                                         Bengaluru
                                                                                                         Female
                        1993-01-30
                                                                                                                        26
23
                                                              C-Suite
  E126
            Ananya
                                      ceo
                                                                                          Chennai
                                                                                                         Female
                                                                             28000.00
            Bhavya
                        1994-01-30
                                      cmo
                                                              Marketing
                                                                                          Chitradurga
                                                                                                         Female
                                                                              29000.00
                                                                                                                         46
  E128
            Akhil
                        1995-01-30
                                      Ass. Vice president
                                                              corporation
                                                                                          Manglore
                                                                                                         Male
  E129
                                                                             60000.00
           Nishitha
                        1996-01-30
                                      MD
                                                              Management
                                                                                         Udupi
                                                                                                         Female
                        1997-01-30
  E130
            Jack
                                      CFO
                                                              Accountst
                                                                              75000.00
                                                                                         Davangere
                                                                                                         Male
                                                                                                                         86
  E131
            Peter
                        1988-01-30
                                      Cto
                                                              IT
                                                                             34000.00
                                                                                         Chittur
                                                                                                         Male
                                                                                                                         46
 rows in set (0.00 sec)
```

Q16) Create table employee2 with only structure as employee.

```
mysql> create table emp_2 as select * from emp_231bcada34 where 1=0;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Q17) Display names of employee where the name starts from a.

```
nysql> select * from emp_231bcada34 where name like "a%";
emp_id | name
                                 designation
                                                      dept
                                                                      salary
                                                                                city
                                                                                            gender | pincode |
                   1993-01-30 | ceo |
1995-01-30 | Ass.Vice president |
 E126
                                                        C-Suite
                                                                       57000.00
                                                                                  Chennai
                                                                                              Female
                                                                                                             26
          Ananya
                                                                                  Manglore
 E128
          Akhil
                                                        corporation
                                                                       29000.00
                                                                                              Male
                                                                                                             46
rows in set (0.01 sec)
```

Q18) Display empid and ename who belongs to a city mysore, Bengaluru and hassan.

```
mysql> select emp_id ,name from emp_231bcada34 where city in ("mysore","bengaluru","hassan");
+-----+
| emp_id | name |
+-----+
| E123 | Rahul |
| E124 | Rohan |
| E125 | Ramya |
+-----+
3 rows in set (0.01 sec)
```

Q19) Demonstrate not in clause.

Q20) Demonstrate and, or, not .

```
mysql> select * from emp_231bcada34 where city ="bengaluru" and gender ="female";
                              designation
                                                              salary
                                                                                     | gender | pincode |
        | Ramya | 1992-01-30 | Vice-president | marketing | 72000.00 | Bengaluru | Female |
                                                                                                     86
 row in set (0.00 sec)
mysql> select * from emp_231bcada34 where city ="bengaluru" or gender ="female";
 emp_id | name
                    dob
                                  designation
                                                   dept
                                                                   salary
                                                                                            gender | pincode |
          Rahul
                      1990-01-30
                                                                   80000.00
 E123
                                   Manager
                                                     HR
                                                                              Bengaluru
                                                                                                            56
                                                                              Bengaluru
 E124
          Rohan
                      1991-01-30
                                   Dept.Manager
                                                     marketing
                                                                   70000.00
                                                                                             Male
                                                                   72000.00
57000.00
 E125
          Ramya
                      1992-01-30
                                   Vice-president
                                                     marketing
                                                                              Bengaluru
                                                                                             Female
                                                                                                            86
 E126
          Ananya
                      1993-01-30
                                   ceo
                                                     C-Suite
                                                                              Chennai
                                                                                             Female
                                                                                                            26
                                                                   28000.00
 E127
          Bhavya
                      1994-01-30
                                   cmo
                                                     Marketing
                                                                              Chitradurga
                                                                                             Female
                                                                                                            23
          Nishitha
                      1996-01-30
                                   MD
                                                                   60000.00
 E129
                                                     Management
                                                                              Udupi
                                                                                             Female
                                                                                                            26
 rows in set (0.00 sec)
nysql> select * from emp_231bcada34 where name not like"r%";
                                                                                                gender | pincode |
 emp_id | name
                      dob
                                   designation
                                                                       salary
                                                                                 | city
 E126
          Ananya
                      1993-01-30
                                   ceo
                                                         C-Suite
                                                                        57000.00
                                                                                    Chennai
                                                                                                  Female
                                                                                                                 26
                                                                                    Chitradurga
                      1994-01-30
                                                                                                                 23
 E127
          Bhavya
                                   cmo
                                                         Marketing
                                                                        28000.00
                                                                                                  Female
                                   Ass. Vice president
                                                                                                  Male
                                                                                                                 46
 E128
          Akhil
                      1995-01-30
                                                         corporation
                                                                        29000.00
                                                                                    Manglore
          Nishitha
                      1996-01-30
                                   MD
                                                                        60000.00
                                                                                                  Female
                                                                                                                 26
 E129
                                                         Management
                                                                                    Udupi
 E130
                      1997-01-30
                                   CFO
                                                                                                  Male
                                                                                                                 86
                                                         Accountst
                                                                        75000.00
                                                                                    Davangere
          Jack
          Peter
                                                                                                                 46
 E131
                      1988-01-30
                                                                        34000.00
                                                                                    Chittur
                                                                                                  Male
 rows in set (0.00 sec)
```

Q21) Display the ename where the salary ranges between 50,000 to 75,000.

Q22) Delete the data from employee1 where designation is manager.

```
mysql> delete from emp_1 where designation = "manager";
Query OK, 1 row affected (0.01 sec)
```

Q23) Drop the table employee2.

```
mysql> select * from emp_2;
Empty set (0.00 sec)
mysql> drop table emp_2;
Query OK, 0 rows affected (0.05 sec)
```

Q24) Display top 3 salaries along with ename(limit).

```
mysql> select name salary from emp_231bcada34 order by salary limit 3;

+----+
| salary |

+----+
| Akhil |
| Ananya |
| Bhavya |

+----+
3 rows in set (0.00 sec)
```

Q25) Give the bonus to employee( 10% of their salary) where the department is maintenance.

```
mysql> update emp_231bcada34 set salary=salary+(salary*0.10) where dept = "marketing";
Query OK, 3 rows affected (0.01 sec)
Rows matched: 3 Changed: 3 Warnings: 0
```

Q26) Calculate the age of employee.

```
TIMESTAMPDIFF(YEAR, DOB, CURDATE()) AS Age FROM emp_231bcada34;
emp_id | name
                    dob
                                  designation
                                                         dept
                                                                        salary
                                                                                    city
                                                                                                   | gender | pincode | Age |
E123
          Rahul
                     1990-01-30
                                    Manager
                                                          HR
                                                                          80000.00
                                                                                      Bengaluru
                                                                                                     Male
                                                                                                                    56
                                                                                                                           34
                                                                                                     Male
E124
                     1991-01-30
                                    Dept.Manager
                                                          marketing
                                                                          77000.00
                                                                                      Bengaluru
                                                                                                                            33
          Rohan
E125
          Ramya
                      1992-01-30
                                    Vice-president
                                                          marketing
                                                                          79200.00
                                                                                      Bengaluru
                                                                                                     Female
                                                                                                                    86
                                                                                                                           32
31
30
29
28
27
                                                                                                                    26
23
46
         Ananya
                     1993-01-30
                                    ceo
                                                          C-Suite
                                                                          57000.00
                                                                                      Chennai
                                                                                                     Female
E127
         Bhavya
Akhil
                     1994-01-30
                                    cmo
                                                          Marketing
                                                                          30800.00
                                                                                      Chitradurga
                                                                                                     Female
                                   Ass. Vice president
                                                                                                     Male
Female
                     1995-01-30
                                                          corporation
E128
                                                                          29000.00
                                                                                     Manglore
                                                                                                                    26
E129
         Nishitha
                     1996-01-30
                                   MD
                                                                          60000.00
                                                                                     Udupi
                                                          Management
                     1997-01-30
                                                                                                     Male
E130
          Jack
                                                          Accountst
                                                                          75000.00
                                                                                      Davangere
E131
         Peter
                     1988-01-30
                                   Cto
                                                                          34000.00
                                                                                     Chittur
                                                                                                     Male
rows in set (0.00 sec)
```

#### Create database

#### Create table

Insert values

Display table

```
mysql> insert into emp_34 values("tanya", "bus.analyst", "manglore");
Query OK, 1 row affected (0.01 sec)
mysql> insert into emp_34 values("reka", "analyst", "banglore");
Query OK, 1 row affected (0.00 sec)
mysql> insert into emp_34 values("priya", "hr", "mandya");
Query OK, 1 row affected (0.01 sec)
mysql> select * from emp_34;
         designation | city
name
          bus.analyst
                        manglore
 tanya
                        banglore
 reka
          analyst
                        mandya
  priya
3 rows in set (0.00 sec)
```

## Update city from Bangalore to Bengaluru

```
mysql> update emp_34 set city= "bengaluru" where city =" banglore";
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
mysql> select * from emp_34;
 name
        | designation | city
  tanya
          bus.analyst
                        manglore
                        banglore
          analyst
 reka
  priya
          hr
                        mandya
3 rows in set (0.00 sec)
```

#### Add a column salary

```
mysql> ALTER TABLE emp_34
-> ADD COLUMN salary DECIMAL(10, 2);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

#### Insert values into salary column

```
mysql> update emp_34 set salary= case
-> when designation= "bus.analyst" then 50000
-> when designation= "analyst" then 80000
-> when designation= "hr" then 40000
-> end;
Query OK, 3 rows affected (0.00 sec)
Rows matched: 3 Changed: 3 Warnings: 0
```

Rename a column from design to designation

Modify datatype of designation to char

```
mysql> alter table emp_34 modify desi char(20);
Query OK, 3 rows affected (0.05 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

Drop country column

```
mysql> alter table emp_34 drop city;
Query OK, 0 rows affected (0.01 sec)
```

Aggregate functions and group by.

Display maximun value.

Display minimum value with column name as "minimum salary"

Display total amount of salary

Display average salary

## Display no. of employes

```
mysql> select count(salary) " no. of salary" from employees;
+-----+
| no. of salary |
+-----+
| 6 |
+-----+
1 row in set, 1 warning (0.00 sec)
```

## Display dept and total salary in each dept

## Display the count of dept grouped by dept

## **Account Master**

#### Create table account master

mysql> create table Account\_Master (acc\_no int ,acc\_type varchar (20), balance float, cust\_name varchar(30), da te\_acc\_created date,cust\_id int); Query OK, 0 rows affected (0.02 sec)

#### Insert 5 values

```
mysql> insert into account_master values(20,"current",300000,"rekhashree
", "2018-04-11",001);
Query OK, 1 row affected (0.01 sec)

mysql> insert into account_master values(21,"savings ",5400000,"padma",
"2019-06-13",002);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account_master values(22,"savings ",234000,"ramesh",
"2020-10-23",003);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account_master values(23,"current ",2340,"bindu", "20
21-12-2",004);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account_master values(24,"savings",25000,"monisha", "
2022-2-24",005);
Ouery OK, 1 row affected (0.00 sec)
```

#### Show all tables

```
mysql> show tables;

+-----+

| Tables_in_employee_34 |

+-----+

| employee_231bcada34 |

+-----+

1 row in set (0.01 sec)
```

#### Describe table

```
mysql> describe account_master;
| Field
                                    Null | Key | Default | Extra
                      Type
                      int
                                     YES
                                                  NULL
  acc_no
  acc_type
                      varchar(20)
                                     YES
                                                  NULL
                                                  NULL
                      float
                                     YES
 balance
                      varchar(30)
                                     YES
                                                  NULL
  cust_name
 date_acc_created
                     date
                                     YES
                                                  NULL
 cust_id
                      int
                                     YES
                                                  NULL
6 rows in set (0.00 sec)
```

Create table acc 1 that contains acc no and cust name with no records

```
mysql> create table acc_1 select acc_no,cust_name from account_master;
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

Retrive all the info from acc master where acc\_no. is 24 and acc\_type is sb

```
mysql> select * from account_master where acc_no =24 and acc_type = "savings";
+-----+
| acc_no | acc_type | balance | cust_name | date_acc_created | cust_id |
+-----+
| 24 | savings | 25000 | monisha | 2022-02-24 | 5 |
+-----+
1 row in set (0.00 sec)
```

Show diiferny acc types

```
mysql> select distinct acc_type from account_master;
+-----+
| acc_type |
+-----+
| current |
| savings |
| current |
| savings |
+-----+
4 rows in set (0.00 sec)
```

Display details of cust whose name is 6 char long and starts with r

```
mysql> select * from account_master where cust_name like "r____";
| acc_no | acc_type | balance | cust_name | date_acc_created | cust_id |
| 22 | savings | 234000 | ramesh | 2020-10-23 | 3 |
| 1 row in set (0.00 sec)
```

Arrange data in desc order of acc\_no

```
mysql> select * from account_master order by acc_no desc;
 acc_no | acc_type | balance | cust_name | date_acc_created | cust_id
                      25000 | monisha
                                         2022-02-24
                                                                  5
     24 | savings |
                       2340 | bindu
                                        2021-12-02
                                                                  4
     23 | current |
     22 | savings | 234000 | ramesh
                                        2020-10-23
                                                                  3
     21 | savings | 5400000 | padma
                                        2019-06-13
                                                                  2
     20 | current | 300000 | rekhashree | 2018-04-11
                                                                  1
 rows in set (0.00 sec)
```

Find the total no. of acc created by each user

Find out the cust who is having more than 1acc

Findout the no, of acc created after 3rd jan 2020

```
mysql> select count(*) from account_master where date_acc_created>"2020-01-03";
+-----+
| count(*) |
+-----+
| 5 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select count(*) from account_master
 count(*) |
        7 |
1 row in set (0.00 sec)
mysql> select min(balance) from account_master
 min(balance)
         2340
1 row in set (0.00 sec)
mysql> select max(balance) from account_master;
| max(balance) |
       5400000 |
1 row in set (0.00 sec)
mysql> select avg(balance) from account_master;
avg(balance)
857334.2857142857
1 row in set (0.00 sec)
mysql> select sum(balance) from account_master;
| sum(balance) |
      6001340
1 row in set (0.00 sec)
```

## Research scholar

Create table research scholar and project (such that many scholars can work on same project but no scholar can work in multiple projects)

```
mysql> create table project (p_id int primary key, p_name varchar(20) not null);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table research_scholar(r_name varchar(20) not null, r_id int primary key, dep t varchar(20) default "data science",p_id int , foreign key (p_id) references project(p_id), r_head varchar(20), clg varchar(10) default "sju"); Query OK, 0 rows affected (0.05 sec)
```

## Insert values

```
mysql> insert into project values(03,"marketing");
Query OK, 1 row affected (0.00 sec)
mysql> insert into project values(04, "service");
Query OK, 1 row affected (0.00 sec)
mysql> select * from project;
 p_id |
        p_name
     1
         medical
     2
         stocks
     3
         marketing
     4
         service
4 rows in set (0.00 sec)
```

```
mysql> select* from research_scholar;
                                p_id
 r_name
           r_id |
                  dept
                                         r_head |
                                                  clq
                  data science
  anitha
              4
                                     2
                                         jeshma
                                                  sju
  swathi
              6
                  data science
                                     3
                                         aaron
                                                  sju
  rohan
             31
                  data science
                                     4
                                         jeshma
                                                  sju
  rekha
             34
                  data science
                                     1
                                         aaron
                                                  sju
4 rows in set (0.00 sec)
```

#### Join 2 tables

```
mysql> select * from research_scholar r,project p where r.p_id=p.p_id;
 r_name | r_id |
                                         r_head |
                  dept
                                 | p_id |
                                                   clg
                                                          p_id |
                                                                  p_name
                  data science
              4
                                                              2
  anitha
                                     2
                                          jeshma
                                                   sju
                                                                  stocks
 swathi
                  data science
                                     3
                                                   sju
                                                              3
                                                                  marketing
              6
                                         aaron
 rohan
             31
                  data science
                                     4
                                          jeshma
                                                   sju
                                                                  service
 rekha
             34
                  data science
                                     1
                                         aaron
                                                   sju
                                                                  medical
4 rows in set (0.00 sec)
```

## Association member

## Create table member and associaction

```
mysql> create table association ( a_id int primary key, a_name varchar(20) not null,a_head varchar(20) not null, president varchar(20) ,clg varchar (20) default "sju");
Query OK, 0 rows affected (0.03 sec)

mysql> insert into association(a_id,a_name,a_head,president)values(01,"analytica","asha","adrian");
Query OK, 1 row affected (0.01 sec)

mysql> insert into association(a_id,a_name,a_head,president)values(02,"data gram","jeshma","ajay");
Query OK, 1 row affected (0.00 sec)

mysql> insert into association(a_id,a_name,a_head,president)values(03,"cybernitics","francis","krishna");
Query OK, 1 row affected (0.00 sec)

mysql> select * from association;

| a_id | a_name | a_head | president | clg |
| a_name | a_head | president | clg |
| a_lada gram | jeshma | ajay | sju |
| 2 | data gram | jeshma | ajay | sju |
| 3 | cybernitics | francis | krishna | sju |
| 3 | rows in set (0.00 sec)
```

## Display details of members along with their association details

id	name	dept	a_id	a_id	a_name	a_head	president	clg
34	reka	data analytics	1	1	analytica	asha	adrian	sju
31	rohan	data analytics	1	1	analytica	asha	adrian	sju
23	kiran	data science	2	2	data gram	jeshma	ajay	sju
45	danu	developer	3	3	cybernitics	francis	krishna	sju

## Check constraints

Create table employee such that employees should only belong to Bengaluru or mysore or manglore.

```
mysql> create table employee( emp_id int primary key, emp_name varchar(20) not null
, location varchar(20), check (location in ("bengaluru","mysore"
,"mangaluru")));
Query OK, 0 rows affected (0.02 sec)
```

Create table employee such that employees name must start with a

```
mysql> create table empl(e_id int primary key, em_name varchar(20) not null,check (em_name like "a____"));
Query OK, 0 rows affected (0.02 sec)
```