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String:

1. Display length of name and city of each employee.

```
mysql> select length(name) ,length(address) from emplo;
```

2. Change name of city to lower case using two ways.

```
mysql> select ucase(name) from emplo;
```

```
mysql> select upper(name) from emplo;
```

3. Change name of city. to upper case using two ways

```
mysql> select lower(name) from emplo;
```

```
mysql> select lcase(name) from emplo;
```

4. Extract first four characters from each name

```
mysql> select substr(name,-4,4) from emplo;
```

6. Extract four characters of each name from 2nd position using substr function.

```
mysql> select substr(name,2) from emplo;
```

7. Display the name and city in one column..

```
mysql> select concat(name," ",address) from emplo;
```

8. Replace the "ana" with "aa" in the name column

```
mysql> select replace(name,"ana","aa") from emplo;
```

9. Display the city and name in reverse order.

```
mysql> select reverse(address),reverse(name) from emplo;
```

10. Display the ASCII value of name.

```
mysql> select ascii(name) from emplo;
```

6 rows in set (0.00 sec)

11. Display the first occurrence "a" in the name column.

```
mysql> select * from emplo where name like "a%";
```

12. Display the details of employee in ascending order according to name.

```
mysql> select * from emplo order by name asc;
```

13. Display the details of employee in descending order according to city.

```
mysql> select * from emplo order by address desc;
```

MATH::

1. Display the maximum, minimum, average, total of the salary from employee table.

```
mysql> select max(salary),min(salary),avg(salary),sum(salary) from emplo;
```

2. Display the mod of the age.

```
mysql> select mod(age,10.) from emplo;
```

Display the salary with the increment of power 2.

```
mysql> select salary*2 from emplo;  
Date:
```

Display duration in days for which employce has worked.  
mysql> select dateDiff(curdate(),join\_date) from emplo;

2. Display Eid, name, joinddate and abbreviated week day name of each joindate.

```
mysql> select e_id,name,join_date,date_format(join_date,'%W') from emplo  
;
```

3. Display Eid, Ename, joinddate and abbreviated full and half month name of each joindate.

```
mysql> select e_id,name,join_date,date_format(join_date,'%b') from emplo  
;
```

4. Display the details of the employee whose joining year is greater than 2010.

```
mysql> select * from emplo where year(join_date)>2010;
```

5. Display the date and time from the system.

```
mysql> select curdate();
```

TASK 2 :

UNIVERSITY DATABASE

1.List the details of student table.

```
mysql> select * from students;
```

2.List the details of the professor in the ascending order.

```
mysql> select * from professors order by professorid asc;
```

3.List the distinct firstnames of the students in the descending order.

```
mysql> select distinct first_name from professors order by First_name  
desc;
```

List the character of ASCII=97

```
mysql> select ascii('a');
```

Display the ascii values of the firstname of the students.

```
mysql> select ascii(first_name) from students;
```

Display by adding 3 columns into one address column;

```
mysql> select concat(Student_id," ",First_name," ",Last_name," ",address)  
from students;
```

Search for the letter 'I' in the first name of the student;

```
mysql> select position('I' in first_name) from students;
```

Insert the string ".co.in" into the email column of the professor. Replace the lastv three characters.

```
mysql> select replace(email,"com","co.in") from students;
```

Display the details of the students by replacing "Bombay" to "Limbd" in the city column

```
mysql> select replace(city,'Limbd','Bombay') from students;
```

Display the name of the professor in the reverse  
mysql> select reverse(last\_name) from professors;

Display the professor name in the reverse.  
mysql> select ucase(First\_name) from professors;

Display the email in the lower case.  
mysql> select lcase(email) from professors;

Display the length of the email from professor  
mysql> select length(first\_name) from professors;

Display the city name thrice from the student table.  
mysql> select repeat(city,3) from students;

Extract and display the 5 characters from the text name in the  
"firstname" column from (starting from left) the student table;.  
mysql> select substr(first\_name,2,5) from professors;

Extract and display the 5 characters from the text name in the  
"firstname" column from (starting from right) the student table;.  
mysql> select left(first\_name,5) from professors;  
name,5) from professors;

Display the average of marks from the student where studentid=1.  
mysql> select avg(marks) from marksheet where studentid=1;

display the sum of the marks from the student where studentid=3.  
mysql> select sum(marks) from marksheet where studentid=3;

display the roundup of marks where studentid=2.  
mysql> select ceil(avg(marks)) from marksheet where studentid=2;

display the rounddown of marks where studentid=3.  
mysql> select floor(avg(marks)) from marksheet where studentid=3;  
display the maximum of the marks where studentid=3.  
mysql> select max(marks) from marksheet where studentid=3;

display the minimum marks from the student where studentid=1.  
mysql> select min(marks) from marksheet where studentid=1;

display the modulo of the marks.  
mysql> select mod(marks,10) from marksheet;

Display the power of the marks.  
mysql> select pow(marks,2) from marksheet;

Display the date of birth in DD-MM-yy format.  
mysql> select day(dateofbirth),month(dateofbirth),year(dateofbirth) from  
students;

Display the current date and time.  
mysql> select sysdate();

3. Display the Name and age of the student.

```
mysql> select  
First_name, Last_name, TIMESTAMPdiff(YEAR, dateofbirth, CURDATE()) from  
students;
```

4. Display character of ASCII = 97.

```
mysql> SELECT ASCII('a');
```

5. Display the round of 333.44567 till 3 positions.

```
mysql> select round(333.44567, 3);
```

6. Display the least & greatest number out of 3456, 6789, 9876, 5432.

```
mysql> select least(3456, 6789, 9876, 5432);
```

6. Display the least & greatest number out of 3456, 6789, 9876, 5432.

```
mysql> select greatest(3456, 6789, 9876, 5432);
```

7. Display the sine and cosine of 4.7.

```
mysql> select sin(4.7);
```

```
mysql> select cos(4.7);
```

8. Display the value of PI through the math function.

```
mysql> select pi();
```

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9. Add 15 minutes to a date and return the date.

```
mysql> select date_add('1979-5-8', INTERVAL 15 Minute);
```

10. Add 15 DAYS to DATE OF BIRTH and return the date.

```
mysql> select date_add(dateofbirth, INTERVAL 15 day) from students;
```

12. Return the day of the month for a date: 2017-06-15.

```
mysql> select date_format('2017-6-15', '%W');
```

13. Return the day of the month for the current system date.

```
mysql> select date_format(curdate(), '%W');
```

### TASK 3:

Airline database

List the details of Flights table

```
mysql> select * from flights;
```

Increase the prices by 50 percent in the Flight Table of all Rows.

```
mysql> select price*2 from flights;
```

Display the details of Flight from "Chennai"

```
mysql> select * from flights where from_city="chennai";
```

- Delete the rows whose flno is 10 in the Flights table.

```
ysql> select * from flights where flno=10;
```

- Display employees whose salary is more than 10,000

```
ysql> select * from emp where salary>=10000;
```

Display the result by Adding three columns  
"from\_city", "to\_city", "distance" into one "Flight details" column.

```
sql> select concat(from_city," ",to_city," ",distance) as flights_details  
from flights;
```

Display the previous result by Extracting 2 characters from the "from  
city" and "to city" column (starting from left) and instead of distance,  
add "price" column with "-" separator into one "Price  
List" column.

```
mysql> select left(from_city,2),left(to_city,2),concat(price,'-  
price_list') from flights;
```

- Display Flightname and price of flights having maximum price out of all flights.

```
ysql> select flightname,price from flights where price=(select max(price)  
from flights)  
-> ;
```

- Display details of all the employees.

```
mysql> select * from employee;
```

- Increase salary of all employees by 12% in Employee.

```
mysql> update employee set salary=(salary*12)/100;
```

Query OK, 5 rows affected (0.01 sec)

Rows matched: 5 Changed: 5

- Drop the city column.

```
mysql> alter table employee drop column city;
```

List the details of those employees whose salary is more than 25000.

```
mysql> select * from employee where salary>25000;
```

Delete the rows where Project status is completed.

```
mysql> delete from project where status="completed";
```

Query OK, 2 rows affected (0.01 sec)

List the Employee who are in the city 'Bangalore'.

- List the Employee name twice who are in the city 'Ahmedabad'.

```
mysql> select * from employee where city="Ahmedabad";
```

- Display firstname of all the employees returning ASCII values.

```
mysql> select ascii(First_name) from employee;
```

```
mysql> select concat(first_name," ",first_name) from employee where  
city="Ahmedabad";
```

Search for the letter O in the first name.

```
mysql> select * from employee where first_name like '%o%';
```

- Display details of all the employees returning in uppercase.

```
mysql> select ucase(First_name) as firstname,ucase(Lastname) as  
last_name,ucase(city) as city,emp_id,Hiredate,designo,deptno,salary from  
employee;
```

- Display details of all the projects returning in lowercase.

```
mysql> select project_id,lcase(proj_name) as project_name,lcase(city) as  
city, lcase(status) as status from designation;
```

Search for the letter "o" in FirstName.

```
mysql> select * from employee where first_name like '%o%';
```

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