String:
1. Display length of name and city of each employee.
```
mysql> select length(name) ,length(address) from emplo;
+-------------+-----------------+
| length(name) | length(address) |
+-------------+-----------------+
|           6 |               9 |
|           4 |               5 |
|           5 |               5 |
|           6 |               9 |
|           7 |              10 |
|           6 |               9 |
+-------------+-----------------+
6 rows in set (0.00 sec)
```

2. Change name of city to lower case using two ways.
```
mysql> select ucase(name) from emplo;
+------------+
| ucase(name) |
+------------+
| AKSHAY      |
| DEEP        |
| NISHA       |
| BHAVIK      |
| SHANAYA     |
| PRISHA      |
+------------+
6 rows in set (0.01 sec)

mysql> select upper(name) from emplo;
+------------+
| upper(name) |
+------------+
| AKSHAY      |
| DEEP        |
| NISHA       |
| BHAVIK      |
| SHANAYA     |
| PRISHA      |
+------------+
6 rows in set (0.00 sec)
```

3. Change name of city. to upper case using two ways
```
mysql> select lower(name) from emplo;
+------------+
| lower(name) |
+------------+
| akshay      |
| deep        |
| nisha       |
| bhavik      |
| shanaya     |
| prisha      |
+------------+
```

```
6 rows in set (0.00 sec)

mysql> select lcase(name) from emplo;
+-------------+
| lcase(name) |
+-------------+
| akshay      |
| deep        |
| nisha       |
| bhavik      |
| shanaya     |
| prisha      |
+-------------+
6 rows in set (0.00 sec)\
```

4. Extract first four characters from each name
```
mysql> select substr(name,-4,4) from emplo;
+-------------------+
| substr(name,-4,4) |
+-------------------+
| shay              |
| Deep              |
| isha              |
| avik              |
| naya              |
| isha              |
+-------------------+

6 rows in set (0.00 sec)
```

6. Extract four characters of each name from 2nd position using substr function.
```
mysql> select substr(name,2) from emplo;
+----------------+
| substr(name,2) |
+----------------+
| kshay          |
| eep            |
| isha           |
| havik          |
| hanaya         |
| risha          |
+----------------+
6 rows in set (0.00 sec)
```

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

```
mysql> select concat(name," ",address) from emplo;
+--------------------------+
| concat(name," ",address) |
+--------------------------+
| Akshay AHMEDABAD         |
| Deep SURAT               |
```

```
| Nisha Delhi                |
| Bhavik Ahmedabad           |
| Shanaya Chandigarh         |
| Prisha Ahmedabad           |
+----------------------------+
6 rows in set (0.00 sec)
```

8. Replace the "ana" with "aa" in the name column
```
mysql> select replace(name,"ana","aa") from emplo;
+--------------------------+
| replace(name,"ana","aa") |
+--------------------------+
| Akshay                   |
| Deep                     |
| Nisha                    |
| Bhavik                   |
| Shaaya                   |
| Prisha                   |
+--------------------------+
6 rows in set (0.00 sec)
```


9. Display the city and name in reverse order.
```
mysql> select reverse(address),reverse(name) from emplo;
+------------------+---------------+
| reverse(address) | reverse(name) |
+------------------+---------------+
| DABADEMHA        | yahskA        |
| TARUS            | peeD          |
| ihleD            | ahsiN         |
| dabademhA        | kivahB        |
| hragidnahC       | ayanahS       |
| dabademhA        | ahsirP        |
+------------------+---------------+
6 rows in set (0.00 sec)
```


10. Display the ASCII value of name.
```
mysql> select ascii(name) from emplo;
+-------------+
| ascii(name) |
+-------------+
|          65 |
|          68 |
|          78 |
|          66 |
|          83 |
|          80 |
+-------------+
6 rows in set (0.00 sec)
```


11. Display the first occurance "a" in the name column.
```
mysql> select * from emplo where name like "a%";
```

```
+------+--------+------+-----------+-----------+-----------+--------+
| E_id | Name   | age  | Address   | Join_date | Leave_date | Salary |
+------+--------+------+-----------+-----------+-----------+--------+
|  101 | Akshay |   22 | AHMEDABAD | 2015-06-22 | 2022-08-30 |  22000 |
+------+--------+------+-----------+-----------+-----------+--------+
1 row in set (0.01 sec)
```

12. Display the details of employee in ascesnding order acording to name.
```
mysql> select * from emplo order by name asc;
+------+---------+------+-----------+-----------+-----------+--------+
| E_id | Name    | age  | Address   | Join_date | Leave_date | Salary |
+------+---------+------+-----------+-----------+-----------+--------+
|  101 | Akshay  |   22 | AHMEDABAD | 2015-06-22 | 2022-08-30 |  22000 |
|  104 | Bhavik  |   20 | Ahmedabad | 2017-05-10 | 2022-06-23 |  21000 |
|  102 | Deep    |   24 | SURAT     | 2017-03-12 | 2021-05-22 |  25000 |
|  103 | Nisha   |   26 | Delhi     | 2015-04-22 | 2020-07-15 |  27000 |
|  106 | Prisha  |   29 | Ahmedabad | 2010-07-22 | 2021-06-12 |  30000 |
|  105 | Shanaya |   27 | Chandigarh | 2010-06-12 | 2022-05-30 |  28000 |
+------+---------+------+-----------+-----------+-----------+--------+
6 rows in set (0.01 sec)
```

13. Display the details of employee in descending order acording to city.
```
mysql> select * from emplo order by address desc;
+------+---------+------+-----------+-----------+-----------+--------+
| E_id | Name    | age  | Address   | Join_date | Leave_date | Salary |
+------+---------+------+-----------+-----------+-----------+--------+
|  102 | Deep    |   24 | SURAT     | 2017-03-12 | 2021-05-22 |  25000 |
|  103 | Nisha   |   26 | Delhi     | 2015-04-22 | 2020-07-15 |  27000 |
|  105 | Shanaya |   27 | Chandigarh | 2010-06-12 | 2022-05-30 |  28000 |
|  101 | Akshay  |   22 | AHMEDABAD | 2015-06-22 | 2022-08-30 |  22000 |
|  104 | Bhavik  |   20 | Ahmedabad | 2017-05-10 | 2022-06-23 |  21000 |
|  106 | Prisha  |   29 | Ahmedabad | 2010-07-22 | 2021-06-12 |  30000 |
+------+---------+------+-----------+-----------+-----------+--------+
6 rows in set (0.00 sec)
```

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;
+-------------+-------------+-------------+-------------+
| max(salary) | min(salary) | avg(salary) | sum(salary) |
+-------------+-------------+-------------+-------------+
|       30000 |       21000 | 25500.0000  |      153000 |
+-------------+-------------+-------------+-------------+
```
2. Display the mod of the age.
```
mysql> select mod(age,10.) from emplo;
+--------------+
| mod(age,10.) |
+--------------+
|            2 |
|            4 |
|            6 |
```

```
|            0 |
|            7 |
|            9 |
+--------------+
6 rows in set (0.00 sec)

Display the salary with the increment of power 2.
mysql> select salary*2 from emplo;
+----------+
| salary*2 |
+----------+
|    44000 |
|    50000 |
|    54000 |
|    42000 |
|    56000 |
|    60000 |
+----------+
6 rows in set (0.00 sec)
Date:

Display duration in days for which employce has worked.
mysql> select dateDiff(curdate(),join_date) from emplo;
+-------------------------------+
| dateDiff(curdate(),join_date) |
+-------------------------------+
|                          3387 |
|                          2758 |
|                          3448 |
|                          2699 |
|                          5223 |
|                          5183 |
+-------------------------------+
6 rows in set (0.00 sec)
```

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
;
+------+---------+------------+-----------------------------+
| e_id | name    | join_date  | date_format(join_date,'%W') |
+------+---------+------------+-----------------------------+
|  101 | Akshay  | 2015-06-22 | Monday                      |
|  102 | Deep    | 2017-03-12 | Sunday                      |
|  103 | Nisha   | 2015-04-22 | Wednesday                   |
|  104 | Bhavik  | 2017-05-10 | Wednesday                   |
|  105 | Shanaya | 2010-06-12 | Saturday                    |
|  106 | Prisha  | 2010-07-22 | Thursday                    |
+------+---------+------------+-----------------------------+
6 rows in set (0.00 sec)
```

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
```

```
;
+------+---------+------------+----------------------------+
| e_id | name    | join_date  | date_format(join_date,'%b') |
+------+---------+------------+----------------------------+
|  101 | Akshay  | 2015-06-22 | Jun                        |
|  102 | Deep    | 2017-03-12 | Mar                        |
|  103 | Nisha   | 2015-04-22 | Apr                        |
|  104 | Bhavik  | 2017-05-10 | May                        |
|  105 | Shanaya | 2010-06-12 | Jun                        |
|  106 | Prisha  | 2010-07-22 | Jul                        |
+------+---------+------------+----------------------------+
6 rows in set (0.00 sec)
```

4. Display the details of the employee whose joining year is greater than 2010.
```
mysql> select * from emplo where year(join_date)>2010;
+------+--------+------+-----------+------------+------------+--------+
| E_id | Name   | age  | Address   | Join_date  | Leave_date | Salary |
+------+--------+------+-----------+------------+------------+--------+
|  101 | Akshay |   22 | AHMEDABAD | 2015-06-22 | 2022-08-30 |  22000 |
|  102 | Deep   |   24 | SURAT     | 2017-03-12 | 2021-05-22 |  25000 |
|  103 | Nisha  |   26 | Delhi     | 2015-04-22 | 2020-07-15 |  27000 |
|  104 | Bhavik |   20 | Ahmedabad | 2017-05-10 | 2022-06-23 |  21000 |
+------+--------+------+-----------+------------+------------+--------+
4 rows in set (0.00 sec)
```
5. Display the date and time from the system.
```
mysql> select curdate();
+------------+
| curdate()  |
+------------+
| 2024-09-30 |
+------------+
1 row in set (0.00 sec)
mysql> select * from students;
+------------+------------+-----------+------------+--------+-----------
----------+-----------+-------------+-------------+-----------+
| Student_id | First_name | Last_name | dateofbirth | gender | email
| phone      | address     | Postal_code | city        |
+------------+------------+-----------+------------+--------+-----------
----------+-----------+-------------+-------------+-----------+
|          2 | Afgan      | Solanki   | 1999-05-05 | Male   |
Husain22@gmail.com  | 741258963 | S G Highway |      380001 | Ahmedabad |
|          3 | Mahek      | Patel     | 1995-08-21 | FeMale |
ABC432@gmail.com    | 125478963 | Paldi       |      452110 | Ahmedabad |
|          4 | Swayam     | Ghosht    | 1991-08-02 | Male   |
jhy765@gmail.com    | 741258936 | Greenland   |      360001 | Rajkot    |
|          5 | Naran      | bhatt     | 2000-05-31 | Male   |
lkio98@gmail.com    | 785412369 | Greenchowk  |      363421 | Limbdi    |
|          1 | Husain     | Trivedi   | 1979-02-03 | Male   |
Husaintd2@gmail.com |  76983798 | C G Road    |      363421 | Ahmedabad |
+------------+------------+-----------+------------+--------+-----------
----------+-----------+-------------+-------------+-----------+
5 rows in set (0.00 sec)
mysql> select * from professors order by professorid  asc;
```

```
+-------------+------------+-----------+---------------+------------------+-----------+
| Professorid | First_name | Last_name | Department_id | email            | phone     |
+-------------+------------+-----------+---------------+------------------+-----------+
|           1 | Prince     | Solanki   |           445 | huy768@gmail.com | 123654789 |
|           2 | Dhruv      | patel     |           446 | oiuy876@gmail.com | 879546231 |
|           3 | Krisha     | Satya     |           447 | plok99@gmail.com | 852147963 |
|           4 | Prince     | Nokad     |           448 | uhji22@gmail.com | 546321897 |
|           5 | Vijay      | jiv       |           449 | mkjn22@gmail.com | 825936714 |
+-------------+------------+-----------+---------------+------------------+-----------+
5 rows in set (0.00 sec)

mysql> select distinct  first_name from professors order by First_name desc;;
+------------+
| first_name |
+------------+
| Vijay      |
| Prince     |
| Krisha     |
| Dhruv      |
+------------+
4 rows in set (0.00 sec)
mysql> select ascii('a');
+------------+
| ascii('a') |
+------------+
|         97 |
+------------+
1 row in set (0.00 sec)
mysql> select ascii(first_name) from students;
+-------------------+
| ascii(first_name) |
+-------------------+
|                65 |
|                77 |
|                83 |
|                78 |
|                72 |
+-------------------+
5 rows in set (0.00 sec)
mysql> select concat(Student_id," ",First_name," ",Last_name," ",address) from students;
+--------------------------------------------------------------+
| concat(Student_id," ",First_name," ",Last_name," ",address)  |
+--------------------------------------------------------------+
```

```
| 2 Afgan Solanki S G Highway                                      |
| 3 Mahek Patel Paldi                                              |
| 4 Swayam Ghosht Greenland                                        |
| 5 Naran bhatt Greenchowk                                         |
| 1 Husain Trivedi C G Road                                        |
+------------------------------------------------------------------+
5 rows in set (0.00 sec)
mysql> select position('I' in first_name) from students;
+-----------------------------+
| position('I' in first_name) |
+-----------------------------+
|                           0 |
|                           0 |
|                           0 |
|                           0 |
|                           5 |
+-----------------------------+
5 rows in set (0.00 sec)
mysql> select replace(email,"com","co.in") from students;
+------------------------------+
| replace(email,"com","co.in") |
+------------------------------+
| Husain22@gmail.co.in         |
| ABC432@gmail.co.in           |
| jhy765@gmail.co.in           |
| lkio98@gmail.co.in           |
| Husaintd2@gmail.co.in        |
+------------------------------+
5 rows in set (0.00 sec)

5 rows in set (0.00 sec)
mysql> select replace(city,'Limbdi','Bombay') from students;
+---------------------------------+
| replace(city,'Limbdi','Bombay') |
+---------------------------------+
| Ahmedabad                       |
| Ahmedabad                       |
| Rajkot                          |
| Bombay                          |
| Ahmedabad                       |
+---------------------------------+
5 rows in set (0.00 sec)

mysql> select reverse(last_name) from professors;
+--------------------+
| reverse(last_name) |
+--------------------+
| iknaloS            |
| letap              |
| aytaS              |
| dakoN              |
| vij                |
+--------------------+
5 rows in set (0.00 sec)
```

```
mysql> select ucase(First_name) from professors;
+-------------------+
| ucase(First_name) |
+-------------------+
| PRINCE            |
| DHRUV             |
| KRISHA            |
| PRINCE            |
| VIJAY             |
+-------------------+
5 rows in set (0.00 sec)

mysql> select lcase(email) from professors;
+-------------------+
| lcase(email)      |
+-------------------+
| huy768@gmail.com  |
| oiuy876@gmail.com |
| plok99@gmail.com  |
| uhji22@gmail.com  |
| mkjn22@gmail.com  |
+-------------------+
5 rows in set (0.00 sec)

mysql> select length(first_name) from professors;
+--------------------+
| length(first_name) |
+--------------------+
|                  6 |
|                  5 |
|                  6 |
|                  6 |
|                  5 |
+--------------------+
5 rows in set (0.00 sec)

mysql> select repeat(city,3) from students;
+--------------------------+
| repeat(city,3)           |
+--------------------------+
| AhmedabadAhmedabadAhmedabad |
| AhmedabadAhmedabadAhmedabad |
| RajkotRajkotRajkot       |
| LimbdiLimbdiLimbdi       |
| AhmedabadAhmedabadAhmedabad |
+--------------------------+
5 rows in set (0.00 sec)

mysql> select substr(first_name,2,5) from professors;
+-----------------------+
| substr(first_name,2,5) |
+-----------------------+
| rince                 |
```

```
| hruv                  |
| risha                 |
| rince                 |
| ijay                  |
+-----------------------+
5 rows in set (0.00 sec)


mysql> select left(first_name,5) from professors;
+--------------------+
| left(first_name,5) |
+--------------------+
| Princ              |
| Dhruv              |
| Krish              |
| Princ              |
| Vijay              |
+--------------------+
5 rows in set (0.00 sec)

mysql> select right(first_name,5) from professors;
+---------------------+
| right(first_name,5) |
+---------------------+
| rince               |
| Dhruv               |
| risha               |
| rince               |
| Vijay               |
+---------------------+
5 rows in set (0.00 sec)

mysql> select avg(marks) from marksheet where studentid=1;
+------------+
| avg(marks) |
+------------+
|    45.0000 |
+------------+
1 row in set (0.00 sec)

mysql> select sum(marks) from marksheet where studentid=3;
+------------+
| sum(marks) |
+------------+
|         54 |
+------------+
1 row in set (0.00 sec)

mysql> select ceil(avg(marks)) from marksheet where studentid=2;
+------------------+
| ceil(avg(marks)) |
+------------------+
|               58 |
+------------------+
```

```
1 row in set (0.00 sec)

mysql> select floor(avg(marks)) from marksheet where studentid=3;
+-------------------+
| floor(avg(marks)) |
+-------------------+
|                54 |
+-------------------+
1 row in set (0.00 sec)
mysql> select max(marks) from marksheet where studentid=3;
+------------+
| max(marks) |
+------------+
|         54 |
+------------+
1 row in set (0.00 sec)

mysql> select min(marks) from marksheet where studentid=1;
+------------+
| min(marks) |
+------------+
|         45 |
+------------+
1 row in set (0.00 sec)
mysql> select mod(marks,10) from marksheet;
+---------------+
| mod(marks,10) |
+---------------+
|             5 |
|             8 |
|             4 |
|             8 |
|             7 |
+---------------+
5 rows in set (0.00 sec)

mysql> select pow(marks,2) from marksheet;
+--------------+
| pow(marks,2) |
+--------------+
|         2025 |
|         3364 |
|         2916 |
|         3364 |
|         7569 |
+--------------+
5 rows in set (0.00 sec)
mysql> select day(dateofbirth),month(dateofbirth),year(dateofbirth) from
students;
+------------------+--------------------+------------------+
| day(dateofbirth) | month(dateofbirth) | year(dateofbirth) |
+------------------+--------------------+------------------+
|                3 |                  2 |             1979 |
|                5 |                  5 |             1999 |
```

```
|                21 |                 8 |              1995 |
|                 2 |                 8 |              1991 |
|                31 |                 5 |              2000 |
+-------------------+-------------------+-------------------+
5 rows in set (0.00 sec)
mysql> select sysdate();
+---------------------+
| sysdate()           |
+---------------------+
| 2024-10-01 00:25:54 |
+---------------------+
1 row in set (0.00 sec)
```

3. Display the Name and age of the student.
```
mysql> select
First_name,Last_name,TIMESTAMPdiff(YEAR,dateofbirth,CURDATE()) from
students;
+------------+-----------+-------------------------------------------+
| First_name | Last_name | TIMESTAMPdiff(YEAR,dateofbirth,CURDATE()) |
+------------+-----------+-------------------------------------------+
| Husain     | Trivedi   |                                        45 |
| Afgan      | Solanki   |                                        25 |
| Mahek      | Patel     |                                        29 |
| Swayam     | Ghosht    |                                        33 |
| Naran      | bhatt     |                                        24 |
+------------+-----------+-------------------------------------------+
5 rows in set (0.00 sec)
```

4. Display character of ASCII = 97.
```
mysql> SELECT ASCII('a');
+------------+
| ASCII('a') |
+------------+
|         97 |
+------------+
1 row in set (0.00 sec)
```

5. Display the round of 333.44567 till 3 positions.
```
mysql> select round(333.44567,3);
+--------------------+
| round(333.44567,3) |
+--------------------+
|            333.446 |
+--------------------+
1 row in set (0.00 sec)
```

6. Display the least & greatest number out of 3456,6789,9876,5432.
```
mysql> select least(3456,6789,9876,5432);
+----------------------------+
| least(3456,6789,9876,5432) |
+----------------------------+
|                       3456 |
+----------------------------+
```

6. Display the least & greatest number out of 3456,6789,9876,5432.
mysql> select greatest(3456,6789,9876,5432);

```
+-------------------------------+
| greatest(3456,6789,9876,5432) |
+-------------------------------+
|                          9876 |
+-------------------------------+
1 row in set (0.00 sec)
```

7. Display the sine and cosine of 4.7.
mysql> select sin(4.7);

```
+---------------------+
| sin(4.7)            |
+---------------------+
| -0.9999232575641008 |
+---------------------+
1 row in set (0.00 sec)
```


mysql> select cos(4.7);

```
+----------------------+
| cos(4.7)             |
+----------------------+
| -0.01238866346289056 |
+----------------------+
1 row in set (0.00 sec)
```

8. Display the value of PI through the math function.
mysql> select pi();

```
+----------+
| pi()     |
+----------+
| 3.141593 |
+----------+
1 row in set (0.00 sec)
```

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

ysql> select date_add('1979-5-8',INTErVAL 15 Minute);

```
+-----------------------------------------+
| date_add('1979-5-8',INTErVAL 15 Minute) |
+-----------------------------------------+
| 1979-05-08 00:15:00                     |
+-----------------------------------------+
1 row in set (0.00 sec)
```

10. Add 15 DAYS to DATE OF BIRTH and return the date.
mysql> select date_add(dateofbirth,INTErVAL 15 day) from students;

```
+---------------------------------------+
| date_add(dateofbirth,INTErVAL 15 day) |
+---------------------------------------+
| 1979-02-18                            |
| 1999-05-20                            |
| 1995-09-05                            |
```

```
| 1991-08-17                            |
| 2000-06-15                            |
+---------------------------------------+
5 rows in set (0.00 sec)


12. Return the day of the month for a date: 2017-06-15.
mysql> select date_format('2017-6-15','%W');
+------------------------------+
| date_format('2017-6-15','%W') |
+------------------------------+
| Thursday                     |
+------------------------------+
1 row in set (0.00 sec)



13. Return the day of the month for the current system date.
mysql> select date_format(curdate(),'%W');
+----------------------------+
| date_format(curdate(),'%W') |
+----------------------------+
| Tuesday                    |
+----------------------------+
1 row in set (0.00 sec)

TASK 3:
Airline database

List the details of Flights table
mysql> select * from flights;
+------+-----------+-------------+----------+---------+---------+-------
+------------+
| flno | from_city | to_city     | distance | departs | arrives | price |
flightname |
+------+-----------+-------------+----------+---------+---------+-------
+------------+
|    1 | Dubai     | Afghanistan |       10 |       1 |       8 |  5000 |
nb45       |
|    2 | Karachi   | Delhi       |      200 |       9 |      13 | 10000 |
fs65       |
|    3 | Houston   | Rajkot      |      900 |      14 |      21 |  2000 |
fe55       |
|    4 | Russia    | ukraine     |      600 |      22 |       2 |  4000 |
dw55       |
|    5 | Ahmedabad | Toronto     |      200 |       1 |       6 |  3000 |
d25        |
+------+-----------+-------------+----------+---------+---------+-------
+------------+
5 rows in set (0.00 sec)

Increase the prices by 50 percent in the Flight Table of all Rows.
ysql> select price*2 from flights;
+---------+
| price*2 |
+---------+
```

```
|   10000 |
|   20000 |
|    4000 |
|    8000 |
|    6000 |
+---------+
5 rows in set (0.00 sec)
```

Display the details of Flight from "Chennai"
```
sql> select * from flights where from_city="chennai";
+------+-----------+-------------+----------+---------+---------+-------+------------+
| flno | from_city | to_city     | distance | departs | arrives | price | flightname |
+------+-----------+-------------+----------+---------+---------+-------+------------+
|    1 | chennai   | Afghanistan |       10 |       1 |       8 |  5000 | nb45       |
+------+-----------+-------------+----------+---------+---------+-------+------------+
1 row in set (0.00 sec)
```

• Delete the rows whose flno is 10 in the Flights table.
```
ysql> select * from flights where flno=10;
+------+-----------+-------------+----------+---------+---------+-------+------------+
| flno | from_city | to_city     | distance | departs | arrives | price | flightname |
+------+-----------+-------------+----------+---------+---------+-------+------------+
|   10 | Dubai     | Afghanistan |       10 |       1 |       8 |  5000 | nb45       |
+------+-----------+-------------+----------+---------+---------+-------+------------+
1 row in set (0.00 sec)
```

• Display employees whose salary is more than 10,000
```
ysql> select * from emp where salary>=10000;
+------+----------+--------+
| eid  | ename    | salary |
+------+----------+--------+
|   11 | Maharshi |  10000 |
|   13 | Krishna  |  20000 |
|   14 | Ashish   |  30000 |
|   15 | Harsh    |  40000 |
+------+----------+--------+
4 rows in set (0.00 sec)
```

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;
+-----------------------+
| flights_details       |
+-----------------------+
| Dubai Afghanistan 10  |
| Karachi Delhi 200     |
| Houston Rajkot 900    |
| Russia ukraine 600    |
| Ahmedabad Toronto 200 |
+-----------------------+
5 rows in set (0.00 sec)
```

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;
+-------------------+-----------------+----------------------------+
| left(from_city,2) | left(to_city,2) | concat(price,'-price_list') |
+-------------------+-----------------+----------------------------+
| Du                | Af              | 5000-price_list            |
| Ka                | De              | 10000-price_list           |
| Ho                | Ra              | 2000-price_list            |
| Ru                | uk              | 4000-price_list            |
| Ah                | To              | 3000-price_list            |
+-------------------+-----------------+----------------------------+
5 rows in set (0.00 sec)
```

• 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)
    -> ;
+------------+-------+
| flightname | price |
+------------+-------+
| fs65       | 10000 |
+------------+-------+
1 row in set (0.00 sec)
```

• Display details of all the employees.

```
mysql> select * from employee;
+--------+------------+----------+------------+-----------+---------+----
----+--------+
| Emp_id | First_name | Lastname | Hiredate   | city      | designo |
deptno | salary |
+--------+------------+----------+------------+-----------+---------+----
----+--------+
|      1 | Husain     | Trivedi  | 2007-08-07 | Banglore  |      45 |
87 |  20000 |
|      2 | AAkash     | SOlanki  | 1999-05-09 | Chennai   |      87 |
14 |  10000 |
```

```
|      3 | Maqsad      | aamir     | 1996-07-02 | Hydrabad  |       88 |
19 |   40000 |
|      4 | Nasir       | Solanki   | 1999-05-04 | Kathmandu |       55 |
84 |   45000 |
|      5 | Prince      | Patel     | 1954-08-04 | Kolkatta  |       58 |
81 |   74000 |
+--------+------------+----------+------------+-----------+---------+----
----+--------+
5 rows in set (0.00 sec)
```
• 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  Change
d: 5
```
• Drop the city column.
```
mysql> alter table employee drop column city;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

 List the details of those employees whose salary is more than 25000.
```
mysql> select * from employee where salary>25000;
+--------+------------+----------+------------+---------+--------+-------
-+
| Emp_id | First_name | Lastname | Hiredate   | designo | deptno | salary
|
+--------+------------+----------+------------+---------+--------+-------
-+
|      1 | Husain     | Trivedi  | 2007-08-07 |      45 |     87 |  48000
|
|      2 | AAkash     | SOlanki  | 1999-05-09 |      87 |     14 |  48000
|
|      3 | Maqsad     | aamir    | 1996-07-02 |      88 |     19 |  48000
|
|      4 | Nasir      | Solanki  | 1999-05-04 |      55 |     84 |  48000
|
|      5 | Prince     | Patel    | 1954-08-04 |      58 |     81 |  48000
|
+--------+------------+----------+------------+---------+--------+-------
-+
5 rows in set (0.00 sec)
```

 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'.
```
mysql> select * from employee where city="Ahmedabad";
+--------+------------+----------+------------+---------+--------+-------
-+-----------+
| Emp_id | First_name | Lastname | Hiredate   | designo | deptno | salary
| city      |
+--------+------------+----------+------------+---------+--------+-------
-+-----------+
```

```
|      2 | AAkash      | Patel     | 1998-05-04 |      87 |      14 |  47000
| Banglore   |
+--------+------------+----------+------------+--------+--------+-------
-+----------+
1 row in set (0.00 sec)
```

• List the Employee name twice who are in the city 'Ahmedabad'.
```
mysql> select * from employee where city="Ahmedabad";
+--------+------------+----------+------------+--------+--------+-------
-+----------+
| Emp_id | First_name | Lastname | Hiredate   | designo | deptno | salary
| city   |
+--------+------------+----------+------------+--------+--------+-------
-+----------+
|      3 | Ayushi     | SOlanki  | 1999-05-09 |      88 |      24 |  48000
| Ahmedabad |
+--------+------------+----------+------------+--------+--------+-------
-+----------+
1 row in set (0.00 sec)
```

• Display firstname of all the employees returning ASCII values.
```
mysql> select ascii(First_name) from employee;
+-------------------+
| ascii(First_name) |
+-------------------+
|                72 |
|                65 |
|                77 |
|                78 |
|                80 |
+-------------------+
5 rows in set (0.00 sec)

mysql> select concat(first_name," ",first_name) from employee where
city="Ahmedabad";
+-----------------------------------+
| concat(first_name," ",first_name) |
+-----------------------------------+
| AAkash AAkash                     |
+-----------------------------------+
1 row in set (0.00 sec)
mysql> select * from employee where first_name like '%o%';
+--------+------------+----------+------------+--------+--------+-------
-+----------+
| Emp_id | First_name | Lastname | Hiredate   | designo | deptno | salary
| city   |
+--------+------------+----------+------------+--------+--------+-------
-+----------+
|      1 | Nobita     | Trivedi  | 2007-08-07 |      45 |      87 |  48000
| Banglore   |
+--------+------------+----------+------------+--------+--------+-------
-+----------+
```

1 row in set (0.00 sec)

• 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;
+-----------+-----------+-----------+--------+------------+---------+--------+--------+
| firstname | last_name | city | emp_id | Hiredate | designo | deptno | salary |
+-----------+-----------+-----------+--------+------------+---------+--------+--------+
HUSAIN	TRIVEDI	BANGLORE	1	2007-08-07	45	87	48000
AAKASH	SOLANKI	AHMEDABAD	2	1999-05-09	87	14	48000
MAQSAD	AAMIR	NULL	3	1996-07-02	88	19	48000
NASIR	SOLANKI	NULL	4	1999-05-04	55	84	48000
PRINCE	PATEL	NULL	5	1954-08-04	58	81	48000
+-----------+-----------+-----------+--------+------------+---------+--------+--------+
5 rows in set (0.00 sec)

• 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;
+------------+--------------+-----------+----------+
| project_id | project_name | city | status |
+------------+--------------+-----------+----------+
10	lkh	ahmedabad	on going
13	ert	dhari	on going
14	cdf	porbandar	on going
+------------+--------------+-----------+----------+
3 rows in set (0.00 sec)

 Search for the letter "o" in FirstName.
mysql> select * from employee where first_name like '%o%';
+--------+------------+----------+------------+---------+--------+--------+----------+
| Emp_id | First_name | Lastname | Hiredate | designo | deptno | salary | city |
+--------+------------+----------+------------+---------+--------+--------+----------+
| 1 | Nobita | Trivedi | 2007-08-07 | 45 | 87 | 48000 | Banglore |
+--------+------------+----------+------------+---------+--------+--------+----------+
1 row in set (0.00 sec)