```
MariaDB [dbms_lab]> show databases;
| Database |
| Company
| class
| class_stuff
| dbms_lab
| information_schema |
| mysql
| performance_schema |
| sys
| test
| test_libreoffice |
10 rows in set (0.001 sec)
MariaDB [dbms_lab] > use Company;
Database changed
MariaDB [Company] > create table emp(empno int primary key, empname varchar(50) not
   null, job varchar(10), mgr int not null, hiredate date, sal int not null, comm
   int, deptno int not null);
Query OK, 0 rows affected (0.008 sec)
MariaDB [Company] > describe emp;
| empname | varchar(50) | NO | NULL |
```

```
| YES |
                                   NULL
| hiredate | date
NULL
                                  | NULL
8 rows in set (0.002 sec)
MariaDB [Company] > create table dept(deptno int primary key, dname varchar(50),
  loc varchar(50) not null);
Query OK, 0 rows affected (0.008 sec)
MariaDB [Company] > describe dept;
| Field | Type
                    | Null | Key | Default | Extra |
| dname | varchar(50) | YES | | NULL | | loc | varchar(50) | NO | | NULL |
3 rows in set (0.002 sec)
MariaDB [Company] > insert into emp values (7369, "Smith", "Clerk", 7902, "
  1980-12-17", 800, 300, 20);
Query OK, 1 row affected (0.001 sec)
MariaDB [Company] > select * from emp;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 7369 | Smith | Clerk | 7902 | 1980-12-17 | 800 | 300 | 20 |
1 row in set (0.001 sec)
MariaDB [Company] > insert into emp values (7499, "Allen", "Salesman", 7698, "
1981-02-20", 1600, 300, 30);
Query OK, 1 row affected (0.001 sec)
MariaDB [Company] > select * from emp;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 7369 | Smith | Clerk | 7902 | 1980-12-17 | 800 | 300 | 20 | 7499 | Allen | Salesman | 7698 | 1981-02-20 | 1600 | 300 | 30 |
2 rows in set (0.000 sec)
MariaDB [Company] > insert into dept values(10, "Accounting", "New York");
Query OK, 1 row affected (0.001 sec)
MariaDB [Company] > insert into dept values (20, "Research", "Dallas");
Query OK, 1 row affected (0.001 sec)
MariaDB [Company] > insert into dept values
  -> (30, "Sales", "Chicago");
Query OK, 1 row affected (0.001 sec)
MariaDB [Company] > insert into dept values(40, "Operations", "Boston");
```

```
Query OK, 1 row affected (0.001 sec)
MariaDB [Company] > select * from dept;
| deptno | dname | loc
                               - 1
     10 | Accounting | New York |
     20 | Research | Dallas
     30 | Sales
                     | Chicago
     40 | Operations | Boston
4 rows in set (0.001 sec)
MariaDB [Company] > select * from emp;
| empno | empname | job
                           | mgr | hiredate | sal | comm | deptno | | | |
| 7369 | Smith | Clerk | 7902 | 1980-12-17 | 800 | 300 | 20 |
| 7499 | Allen | Salesman | 7698 | 1981-02-20 | 1600 | 300 |
                                                                    30 I
2 rows in set (0.001 sec)
MariaDB [Company] > insert into emp values (9360, "Isaiah", "Accounting", 7940, "
  2101-9-3", 4000, 1390, 10);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values (9085, "Katie", "Research", 5919, "
  1997-1-26", 8241, 1166, 20);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values (5883, "Jeffery", "Research", 5817, "
  2057-8-3", 2033, 549, 20);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values (5595, "Isabella", "Sales", 8245, "
  2075-9-10", 2534, 1545, 30);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values (9180, "Jesse", "Accounting", 2678, "
  2101-8-22", 3238, 1796, 10);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values (9487, "Amelia", "Research", 7940, "
 2123-1-17", 5368, 1998, 20);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values(8467, "Mollie", "Accounting", 5919, "
  2015-2-9", 3999, 526, 10);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values (9384, "Matilda", "Operations", 5817, "
  2025-5-23", 2494, 1170, 50);
Query OK, 1 row affected
MariaDB [Company] > insert into emp values (6880, "Cameron", "Sales", 8245, "
  2059-5-9", 6311, 1406, 30);
Query OK, 1 row affected
```

```
## Queries Set 1
1. List the number of employees and average salary for employees in department 20.
MariaDB [Company] > select avg(sal), count(*) from emp where deptno=20;
| avg(sal) | count(*) |
| 5214.0000 | 3 |
1 row in set (0.007 sec)
2. List name, salary and PF amount of all employees. (PF is calculated as 10% of
  basic salary)
MariaDB [Company] > select empname, sal, sal * 0.10 as PF from emp;
| empname | sal | PF
| Isabella | 2534 | 253.40 |
| Jeffery | 2033 | 203.30 |
| Cameron | 6311 | 631.10 |
| Stephen | 6556 | 655.60 |
        | 9352 | 935.20 |
| Angel
        1
| Ramesh
           500 | 50.00 |
         | 2000 | 200.00 |
| Krish
| Mollie | 3999 | 399.90 |
| Katie
        | 8241 | 824.10 |
        | 3562 | 356.20 |
| Jesse
| Isaiah | 4000 | 400.00 |
| Matilda | 2494 | 249.40 |
| Amelia | 5368 | 536.80 |
13 rows in set (0.001 sec)
3. List the employee details in the ascending order of their basic salary.
MariaDB [Company] > select * from emp order by sal;
-----+-
                               ---+---
| 5883 | Jeffery | Research | 5817 | 2057-08-03 | 2033 | 549 | 20 |
| 9384 | Matilda | Operations | 5817 | 2025-05-23 | 2494 | 1170 | 40 |
```

```
10 |
 9180 | Jesse | Accounting | 2678 | 2101-08-22 | 3562 | 1796 |
                | Accounting | 5919 | 2015-02-09 | 3999 | 526 |
 8467 | Mollie
                                                                 10 I
  9360 | Isaiah
                | Accounting | 7940 | 2101-09-03 | 4000 | 1390 |
                                                                 10 I
| 9487 | Amelia
               | Research | 7940 | 2123-01-17 | 5368 | 1998 |
                                                                 20 I
| 6880 | Cameron | Sales | 8245 | 2059-05-09 | 6311 | 1406 |
                                                                 30 I
  7235 | Stephen | Operations | 2678 | 2083-00-31 | 6556 | 1698 |
                                                                  40 I
                 9085 | Katie
                                                                  20 |
| 7553 | Angel
                | Sales
13 rows in set (0.001 sec)
4. List the employee name and hire date in the descending order of the hire date.
MariaDB [Company] > select empname, hiredate from emp order by hiredate desc;
| empname | hiredate |
| Amelia | 2123-01-17 |
| Isaiah | 2101-09-03 |
       | 2101-08-22 |
| Jesse
| Angel
         | 2099-06-03 |
| Stephen | 2083-00-31 |
| Isabella | 2075-09-10 |
| Cameron | 2059-05-09
| Jeffery | 2057-08-03 |
| Matilda | 2025-05-23 |
| Ramesh | 2023-12-12 |
Krish
         | 2023-12-12 |
        | 2015-02-09 |
| Mollie
| Katie | 1997-01-26 |
13 rows in set (0.002 sec)
5. List employee name, salary, PF, HRA, DA and gross; order the results in the
  ascending order of
gross. HRA is 50% of the salary and DA is 30% of the salary.
MariaDB [Company] > select empname, sal, sal*.10 as PF, sal*.50 as HRA, sal*.30 as
 DA, sal + sal * .90 as Gross from emp order by Gross;
| empname | sal | PF | HRA
                                | DA
                                        | Gross
| Jeffery | 2033 | 203.30 | 1016.50 | 609.90 | 3862.70 |
| Matilda | 2494 | 249.40 | 1247.00 | 748.20 | 4738.60 | 
| Isabella | 2534 | 253.40 | 1267.00 | 760.20 | 4814.60 |
| Jesse | 3562 | 356.20 | 1781.00 | 1068.60 | 6767.80 |
| Mollie | 3999 | 399.90 | 1999.50 | 1199.70 | 7598.10 |
| Isaiah | 4000 | 400.00 | 2000.00 | 1200.00 | 7600.00 |
         | 5368 | 536.80 | 2684.00 | 1610.40 | 10199.20 |
| Amelia
| Cameron | 6311 | 631.10 | 3155.50 | 1893.30 | 11990.90 |
| Stephen | 6556 | 655.60 | 3278.00 | 1966.80 | 12456.40 |
13 rows in set (0.001 sec)
```

| 5595 | Isabella | Sales | 8245 | 2075-09-10 | 2534 | 1545 | 30 |

```
6. List the department numbers and number of employees in each department.
MariaDB [Company] > select deptno, count(*) from emp group by deptno;
| deptno | count(*) |
    10 |
               3 |
     20 |
                3 |
     30 |
     40 I
                 2 1
     60 I
5 rows in set (0.002 sec)
7. Increment the Salary of salesman by 10% of basic salary.
MariaDB [Company] > update emp set sal=sal+(sal*.10) where job='sales';
Query OK, 3 rows affected (0.006 sec)
Rows matched: 3 Changed: 3 Warnings: 0
8. List the total salary, maximum and minimum salary and average salary of the
   employees, for
department 20.
select sum(sal),max(sal),min(sal),avg(sal) from emp where deptno=20;
| sum(sal) | max(sal) | min(sal) | avg(sal) |
               8241 | 2033 | 5214.0000 |
   15642 |
1 row in set (0.001 sec)
9. List the employees whose names contains 3 rd letter as 'I'.
MariaDB [Company] > select empname from emp where empname like '__i%';
| empname |
| Krish |
1 row in set (0.001 sec)
10. List the maximum salary paid to a salesman.
MariaDB [Company] > select *, max(sal) from emp where job='sales';
| empno | empname | job | mgr | hiredate | sal | comm | deptno | max(sal) |
| 5595 | Isabella | Sales | 8245 | 2075-09-10 | 2787 | 1545 | 30 | 10287 |
1 row in set (0.001 sec)
11. Increase the salary of salesman by 10% of their current salary.
MariaDB [Company] > update emp set sal=sal+(sal*.10) where job='sales';
Query OK, 3 rows affected (0.001 sec)
```

Rows matched: 3 Changed: 3 Warnings: 0

```
1. List the employee names and his annual salary dept wise.
MariaDB [Company] > select deptno, empname, sal*12 as Annual_Sal from emp order by
  deptno;
| deptno | empname | Annual_Sal |
     10 | Mollie | 47988 |
10 | Isaiah | 48000 |
10 | Jesse | 38856 |
20 | Katie | 98892 |
     20 | Amelia
                           64416
     20 | Jeffery |
                            24396
                          112224 |
      30 | Angel
     30 | Cameron |
                            75732 I
     30 | Isabella |
                           30408 |
     50 | Stephen | 78672 |
50 | Matilda | 29928 |
11 rows in set (0.000 sec)
2. Find out least 5 earners of the company.
MariaDB [Company] > select empname from emp order by sal asc limit 5;
| empname |
| Jeffery |
| Matilda
| Isabella |
| Jesse
| Mollie
5 rows in set (0.001 sec)
3. List the records from emp whose deptno is not in dept
MariaDB [Company] > select * from emp where deptno not in (select deptno from dept)
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 8344 | Krish | PT | 7698 | 2023-12-12 | 2000 | 300 | 60 |
1 row in set (0.002 sec)
4. List those employees whose sal is odd value.
MariaDB [Company] > select * from emp where sal % 2 != 0;
| empno | empname | job | mgr | hiredate | sal | comm | deptno | +-----+
| 5883 | Jeffery | Research | 5817 | 2057-08-03 | 2033 | 549 | 20 | 6880 | Cameron | Sales | 8245 | 2059-05-09 | 6311 | 1406 | 30 |
```

```
| 8467 | Mollie | Accounting | 5919 | 2015-02-09 | 3999 | 526 | 10 |
| 9085 | Katie | Research | 5919 | 1997-01-26 | 8241 | 1166 |
4 rows in set (0.001 sec)
5. List the employees whose sal contain 3 digits.
MariaDB [Company] > select * from emp where sal/1000 < 1;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 8343 | Ramesh | PT | 7698 | 2023-12-12 | 500 | 300 | 60 |
1 row in set (0.001 sec)
6. List the employees who joined in the month of 'DEC'
MariaDB [Company] > select * from emp where hiredate like "%%%%-12-%%";
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 8343 | Ramesh | PT | 7698 | 2023-12-12 | 500 | 300 | 60 | 8344 | Krish | PT | 7698 | 2023-12-12 | 2000 | 300 | 60 |
2 rows in set (0.001 sec)
7. List the employees whose names contains 'A'
MariaDB [Company] > select * from emp where empname like "A%";
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 7553 | Angel | Sales | 2678 | 2099-06-03 | 9352 | 983 | 30 |
| 9487 | Amelia | Research | 7940 | 2123-01-17 | 5368 | 1998 |
2 rows in set (0.001 sec)
8. List the maximum, minimum and average salary in the company.
MariaDB [Company] > select max(sal), min(sal), avg(sal) from emp;
| max(sal) | min(sal) | avg(sal) |
| 9352 | 500 | 4355.8462 |
1 row in set (0.001 sec)
9. Write a query to return the day of the week for any date (or HIRE_DATE) entered
  in format
'DD-MM-YY'
MariaDB [Company] > select dayname(hiredate) from emp;
| dayname(hiredate) |
| Tuesday
| Friday
| Friday
```

```
NULL
| Wednesday
| Tuesday
| Tuesday
| Monday
| Sunday
| Monday
| Saturday
| Friday
| Sunday
13 rows in set (0.002 sec)
10. Count the no of characters in employee name without considering spaces for
MariaDB [Company] > select empname, length(replace(empname, ' ', '')) + 1 as length
  from emp;
| empname | length |
| Isabella | 9 |
| Jeffery | 8 |
| Jeffery |
                8 |
8 |
| Cameron
| Stephen
Angel
                6 I
| Ramesh
                7 |
Krish
          -
| Mollie
| Katie
                6 |
| Jesse
| Isaiah
| Matilda |
                8 |
| Amelia
13 rows in set (0.001 sec)
11. List the employees who are drawing less than 1000. sort the output by salary.
MariaDB [Company] > select * from emp where sal < 1000 order by sal;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 8343 | Ramesh | PT | 7698 | 2023-12-12 | 500 | 300 | 60 |
1 row in set (0.002 sec)
```

```
Research
| Operations |
I PT
| Accounting |
5 rows in set (0.001 sec)
2. Delete Employees who joined in Year 1980.
MariaDB [Company] > delete from emp where year(hiredate) = 1980;
Query OK, O rows affected (0.001 sec)
3. Increase the salary of Managers by 20% of their current salary.
MariaDB [Company] > update emp set sal = sal + sal *0.2 where job = 'Manager';
Query OK, 0 rows affected (0.001 sec)
Rows matched: 0 Changed: 0 Warnings: 0
4. List employees not belonging to department 30, 40, or 10.
MariaDB [Company] > select * from emp where deptno not in (30, 40, 10);
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 5883 | Jeffery | Research | 5817 | 2057-08-03 | 2236 | 549 |
| 8343 | Ramesh | PT | 7698 | 2023-12-12 | 500 | 0 |
| 8344 | Krish | PT
                            | 7698 | 2023-12-12 | 2000 | 300 |
                                                                      60 I
| 9085 | Katie | Research | 5919 | 1997-01-26 | 9065 | 1166 | | 9487 | Amelia | Research | 7940 | 2123-01-17 | 5905 | 1998 |
                                                                      20 I
                                                                      20 I
5 rows in set (0.001 sec)
5. List the different designations in the company.
MariaDB [Company] > select distinct job from emp;
| job
| Sales
| Research
| Operations |
| PT
| Accounting |
5 rows in set (0.001 sec)
6. List the names of employees who are not eligible for commission.
MariaDB [Company] > select * from emp where sal < 1000;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 8343 | Ramesh | PT | 7698 | 2023-12-12 | 500 | 0 | 60 |
1 row in set (0.001 sec)
7. List employees whose names either start or end with "S".
MariaDB [Company] > select * from emp where empname like 'S%' or empname like '%S'
```

```
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
1 | 7235 | Stephen | Operations | 2678 | 2083-00-31 | 6556 | 1698 | 40 |
1 row in set (0.001 sec)
8. List employees whose names have letter "A" as second letter in their names.
7 MariaDB [Company] > select * from emp where empname like '_A%';
| empno | empname | job
                               | mgr | hiredate | sal | comm | deptno |
| 6880 | Cameron | Sales
                               | 8245 | 2059-05-09 | 7636 | 1406 |
2 | 8343 | Ramesh | PT
                               | 7698 | 2023-12-12 | 500 | 0 |
                                                                      60 I
                                                                      20 |
3 | 9085 | Katie | Research | 5919 | 1997-01-26 | 9065 | 1166 |
9384 | Matilda | Operations | 5817 | 2025-05-23 | 2494 | 1170 |
3 4 rows in set (0.001 sec)
9. List the number of employees working with the company.
MariaDB [Company] > select count(*) from emp;
2 | count(*) |
1
        13 I
1 row in set (0.001 sec)
3 10. List the emps with hiredate in format June 4,1988.
MariaDB [Company] > select * from emp where hiredate = '1988-06-04';
Empty set (0.001 sec)
3 11. List the salesmen who get the commission within a range of 200 and 5000.
MariaDB [Company] > select * from emp where job = 'Sales' and comm between 200 and
   5000;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 5595 | Isabella | Sales | 8245 | 2075-09-10 | 3066 | 1545 | | 6880 | Cameron | Sales | 8245 | 2059-05-09 | 7636 | 1406 |
                                                                    30 I
                                                                     30 I
                    | Sales | 2678 | 2099-06-03 | 11316 | 983 |
| 7553 | Angel
3 rows in set (0.001 sec)
```

```
| empname |
| Mollie |
| Katie |
2 rows in set (0.001 sec)
2. List the employee details in the ascending order of their basic salary.
MariaDB [Company] > select * from emp order by sal;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 5595 | Isabella | Sales | 8245 | 2075-09-10 | 2534 | 1545 |
  9180 | Jesse | Accounting | 2678 | 2101-08-22 | 3238 | 1796 |
                                                                       10 I
  8467 | Mollie
                  | Accounting | 5919 | 2015-02-09 | 3999 | 526 |
  9360 | Isaiah | Accounting | 7940 | 2101-09-03 | 4000 | 1390 |
                                                                       10 |
| 9487 | Amelia | Research | 7940 | 2123-01-17 | 5368 | 1998 |
| 6880 | Cameron | Sales | 8245 | 2059-05-09 | 6311 | 1406 | | 7235 | Stephen | Operations | 2678 | 2083-00-31 | 6556 | 1698 | | 9085 | Katie | Research | 5919 | 1997-01-26 | 8241 | 1166 |
                                                                        30 I
                                                                       20 I
| 7553 | Angel | Sales
                             | 2678 | 2099-06-03 | 9352 | 983 |
                                                                       30 I
13 rows in set (0.002 sec)
3. Display the employees who have more salary as that of Smith
MariaDB [Company] > select * from emp where sal > (select sal from emp where
  empname = 'Mollie');
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 6880 | Cameron | Sales | 8245 | 2059-05-09 | 6311 | 1406 |
  7235 | Stephen | Operations | 2678 | 2083-00-31 | 6556 | 1698 |
                                                                      40 I
  7553 | Angel | Sales | 2678 | 2099-06-03 | 9352 | 983 | 9085 | Katie | Research | 5919 | 1997-01-26 | 8241 | 1166 |
                                                                       30 I
                                                                      20 |
| 9085 | Katie
| 9360 | Isaiah | Accounting | 7940 | 2101-09-03 | 4000 | 1390 |
                                                                      10 l
| 9487 | Amelia | Research | 7940 | 2123-01-17 | 5368 | 1998 |
                                                                      20 I
6 rows in set (0.001 sec)
4. Increment the salary of Emp no. 9180 by 10% of his current salary.
MariaDB [Company] > select * from emp where empno = 9180;
                          | mgr | hiredate | sal | comm | deptno |
| empno | empname | job
| 9180 | Jesse | Accounting | 2678 | 2101-08-22 | 3562 | 1796 | 10 |
1 row in set (0.001 sec)
5. List the employees whose salary is between 10000 and 25000.
MariaDB [Company] > select * from emp where sal between 10000 and 25000;
```

```
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 7553 | Angel | Sales | 2678 | 2099-06-03 | 11316 | 983 |
                                                                  30 I
1 row in set (0.000 sec)
6. List the names of employees who are not eligible for commission.
MariaDB [Company] > select * from emp where sal < 1000;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 8343 | Ramesh | PT | 7698 | 2023-12-12 | 500 | 0 | 60 |
1 row in set (0.001 sec)
7. Increment the Salary of Research by 10% of basic salary.
MariaDB [Company] > update emp set sal = sal + sal*0.1 where job = "Research";
Query OK, 3 rows affected (0.001 sec)
Rows matched: 3 Changed: 3 Warnings: 0
8. List the total salary, maximum and minimum salary and average salary of the
   employees
jobwise.
MariaDB [Company] > select job, sum(sal) as total, max(sal) as max, min(sal) as min
 , avg(sal) as avg from emp group by job;
| job
           | total | max | min | avg
| Accounting | 11561 | 4000 | 3562 | 3853.6667 | | | | | | | | | | |
| Operations | 9050 | 6556 | 2494 | 4525.0000 | PT | 2500 | 2000 | 500 | 1250.0000 | Research | 17206 | 9065 | 2236 | 5735.3333 |
           | 22018 | 11316 | 3066 | 7339.3333 |
5 rows in set (0.002 sec)
9. Delete the Employee whose name starts with P.
MariaDB [Company] > delete from emp where empname like 'P%';
Query OK, 0 rows affected (0.001 sec)
10. List the employees whose designation is "Research" and commission is > 500.
MariaDB [Company] > select * from emp where job = 'Research' and comm > 500;
| empno | empname | job | mgr | hiredate | sal | comm | deptno |
| 5883 | Jeffery | Research | 5817 | 2057-08-03 | 2236 | 549 |
                                                                      20 I
| 9085 | Katie | Research | 5919 | 1997-01-26 | 9065 | 1166 |
| 9487 | Amelia | Research | 7940 | 2123-01-17 | 5905 | 1998 |
3 rows in set (0.001 sec)
11. List employees belonging to department 20, 30, 40.
MariaDB [Company] > select * from emp where deptno in (20, 30, 40);
```

```
1. List the employee names and his annual salary Job wise.
MariaDB [Company] > select job, empname, sal*12 as annual from emp;
           | empname | annual |
| job
| Sales
            | Isabella | 36792 |
| Research | Jeffery | 26832 |
            | Cameron | 91632
| Operations | Stephen | 78672 |
| Sales
            | Angel
                       | 135792
                     i
I PT
            Ramesh
                         6000 l
| PT
           | Krish | 24000 |
                      | 47988 |
| Accounting | Mollie
| Research | Katie
| Accounting | Jesse
                     | 108780 |
| 42744 |
13 rows in set (0.001 sec)
2. Delete the Employee whose name starts with A & R
MariaDB [Company] > delete from emp where empname like 'A%' or empname like 'R%';
Query OK, 3 rows affected (0.002 sec)
3. Increment the salary of Emp no. 7000 by 30% of his current salary.
MariaDB [Company] > update emp set sal = sal + sal *0.3 where empno = 7000;
Query OK, 0 rows affected (0.001 sec)
Rows matched: 0 Changed: 0 Warnings: 0
4. List the total salary, maximum and minimum salary and average salary of the
   employees hire date wise.
MariaDB [Company] > select hiredate, sum(sal) as total, max(sal) as max, min(sal)
 as min, avg(sal) as avg from emp group by hiredate;
```

```
| hiredate | total | max | min | avg
| 1997-01-26 | 9065 | 9065 | 9065 | 9065.0000 |
| 2015-02-09 |
                3999 | 3999 | 3999 | 3999.0000 |
| 2023-12-12 | 2000 | 2000 | 2000 | 2000.0000 |
| 2025-05-23 | 2494 | 2494 | 2494 | 2494.0000 |
| 2057-08-03 | 2236 | 2236 | 2236 | 2236.0000 |
| 2059-05-09 | 7636 | 7636 | 7636 | 7636.0000 |
| 2075-09-10 | 3066 | 3066 | 3066 | 3066.0000 |
| 2083-00-31 | 6556 | 6556 | 6556 | 6556.0000 |
| 2101-08-22 | 3562 | 3562 | 3562 | 3562.0000 |
| 2101-09-03 | 4000 | 4000 | 4000 | 4000.0000 |
10 rows in set (0.001 sec)
5. List the employees whose names contains last letter as 'T'.
MariaDB [Company] > select * from emp where empname like '%T';
Empty set (0.001 sec)
6. Display the employees who have less salary as that of Ankush
MariaDB [Company] > select * from emp where sal < (select sal from emp where
  empname = 'Ankush');
Empty set (0.001 sec)
7. Display the employees who have salary between 10000
MariaDB [Company] > select * from emp where sal between 10000 and 20000;
Empty set (0.001 sec)
8. List employees belonging to department 30, 40, or 10.
MariaDB [Company] > select * from emp where deptno in (30, 40, 10);
                               | mgr | hiredate | sal | comm | deptno |
| empno | empname | job
                            | 8245 | 2075-09-10 | 3066 | 1545 |
| 8245 | 2059-05-09 | 7636 | 1406 |
| 5595 | Isabella | Sales
  6880 | Cameron | Sales
                                                                           30 I
 7235 | Stephen | Operations | 2678 | 2083-00-31 | 6556 | 1698 |
                                                                          40 I
| 8467 | Mollie | Accounting | 5919 | 2015-02-09 | 3999 | 526 |
                                                                           10 I
                   | Accounting | 2678 | 2101-08-22 | 3562 | 1796 |
  9180 | Jesse
                                                                           10 |
                   | Accounting | 7940 | 2101-09-03 | 4000 | 1390 |
  9360 | Isaiah
                                                                           10 I
| 9384 | Matilda | Operations | 5817 | 2025-05-23 | 2494 | 1170 |
                                                                          40 I
7 rows in set (0.001 sec)
9. List the employees whose designation is 'Research' and sal is > 5000.
MariaDB [Company] > select * from emp where job = 'Research' and sal > 5000;
| empno | empname | job
                           | mgr | hiredate | sal | comm | deptno |
| 9085 | Katie | Research | 5919 | 1997-01-26 | 9065 | 1166 | 20 |
1 row in set (0.001 sec)
10. List the employees details descending wise whose designation is 'Research' and
commission is > 500.
```