

emp_id	name	department	salary	Joining_date	city
1	Alice Smith	HR	45000	2020-02-15	New York
2	Bob Johnson	IT	60000	2019-08-23	Chicago
3	Carol White	IT	75000	2021-01-10	New York
4	David Brown	Finance	50000	2020-06-01	San Diego
5	Eva Adams	HR	47000	2018-04-12	Chicago
6	Frank Lee	Finance	65000	2021-11-05	New York
7	Grace Kim	IT	80000	2017-09-18	San Diego
8	Henry Clark	Marketing	55000	2019-12-29	Chicago
9	Irene Scott	Marketing	53000	2021-03-22	New York
10	Jack Davis	IT	72000	2020-08-14	Chicago

## Sample Queries to Practice

1. Show all employees who work in the IT department.
2. Find employees whose salary is greater than 60,000.
3. Get all employees who joined after 1st Jan 2020.
4. Find the total salary paid to employees in each department.
5. Show the highest paid employee in the Finance department.
6. List employees who are from Chicago and earn more than 55,000.
7. Find the number of employees in each city
8. Show employees in the IT department ordered by salary in descending order
9. Display the average salary of all employees.
10. Get the details of the top 3 highest paid employees

## ANSWERS:

- 1) To show all the employees who work in IT department:

```
mysql> SELECT NAME FROM EMP WHERE DEPT='IT';
```

NAME
Bob
carol white
GRACE KIM
JACK

4 rows in set (0.00 sec)

- 2) To find employees whose salary is greater than 60,000

```
mysql> select name from emp where salary>60000;
```

name
carol white
FRANKLEE
GRACE KIM
JACK

4 rows in set (0.00 sec)

3) To get all employees who joined after 1<sup>st</sup> jan 2020:

```
mysql> select name from emp where joining_date > '2020-01-01';
```

name
Alice
carol white
David Brown
FRANKLEE
IRENE SCOTT
JACK

```
4 rows in set (0.00 sec)
```

4) To find total salary paid to employees in each department:

```
mysql> select sum(salary) from emp group by dept;
```

sum(salary)
92000
287000
115000
108000

```
4 rows in set (0.00 sec)
```

5) To show the highest paid employee in finance department:

```
mysql> select name from emp where dept='finance' and salary>=all(select max(salary) from emp where dept='finance');
```

name
FRANKLEE

```
1 row in set (0.00 sec)
```

6) To list employees who are from chicago and earn more than 55000:

```
mysql> Select name from emp where city='chicago' and salary >55000;
```

name
Bob
GRACE KIM
JACK

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

7) To find the number of employees in each city:

```
mysql> select count(name) as 'no.of.emp' from emp group by dept;
```

no.of.emp
2
4
2
2

```
4 rows in set (0.00 sec)
```

- 8) To show employees in the IT department ordered by salary in descending order:

```
mysql> SELECT NAME FROM EMP WHERE DEPT='IT' ORDER BY SALARY DESC;
```

NAME
GRACE KIM
carol white
JACK
Bob

4 rows in set (0.00 sec)

- 9) To display average salaries of all employees:

```
mysql> select avg(salary) as 'avg' from emp;
```

avg
60200.0000

1 row in set (0.00 sec)

- 10) To get the details of top 3 highest paid employees:

```
mysql> select * from emp order by salary desc limit 3;
```

emp_id	name	dept	salary	joining_date	city
9	GRACE KIM	IT	80000	2017-09-18	CHICAGO
3	carol white	IT	75000	2021-05-09	New York
10	JACK	IT	72000	2020-08-14	CHICAGO

3 rows in set (0.01 sec)