

## 1.show databases;

```
+-----+
| Database      |
+-----+
| customer      |
| firstproject  |
| information_schema |
| mysql         |
| performance_schema |
| puropal       |
| puropale      |
| puropale1     |
| puropale_creations |
| sakila        |
| second project |
| students      |
| sys           |
| third project |
| world         |
+-----+
15 rows in set (0.01 sec)
```

## 2. use puropale\_creations;

Database changed

mysql> select \* from products3;

```
+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+
| ProductID | ProductName | SupplierID | CategoryID | QuantityPerUnit | UnitPrice |
UnitsinStock | UnitsOnOrder | ReorderLevel | Discontinued |
+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+
| 1 | 'product A' | 2 | 10 | 15.99 | 99.00 | 100 | 50 |
20 | 0 |
| 2 | 'product B' | 3 | 11 | 8.49 | 49.00 | 200 | 100 |
30 | 0 |
| 3 | 'product C' | 4 | 12 | 22.99 | 99.00 | 50 | 20 |
10 | 1 |
| 4 | 'product D' | 5 | 13 | 12.99 | 99.00 | 150 | 80 |
15 | 0 |
| 5 | 'product E' | 6 | 14 | 18.50 | 50.00 | 75 | 40 |
25 | 0 |
| 6 | product F | 8 | 16 | 20.77 | 70.00 | 120 | 89 |
65 | 1 |
```

```

+-----+-----+-----+-----+-----+-----+
-----+-----+-----+
6 rows in set (0.01 sec)

```

### 3. mysql> select \* from departments5;

```

+-----+-----+-----+
| department_id | department_name | location_id |
+-----+-----+-----+
|          1 | sales          |          101 |
|          2 | hr             |          102 |
|          3 | marketing      |          103 |
|          4 | finance        |          104 |
|          5 | se             |          105 |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

### 4. mysql> select \* from employees9;

```

+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+
| employee_id | first_name | last_name | email          | phone_number | hire_date | job_id |
salary | commission_pct | manager_id | department_id |
+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+
|          1 | Suneetha   | vemula    | sun@email.com | 9121866524   | 2020-01-10 | 100    |
10000 | 10.90      | 6         | 20            |
|          2 | Sudha      | julakanti | sud@email.com | 9121966825   | 2021-02-11 | 101    |
20000 | 12.99      | 7         | 21            |
|          3 | sanju      | vemula    | san@email.com | 9637711612   | 2022-03-14 | 102    | 30000
| 10.99      | 8         | 22            |
|          4 | satvik     | vennela   | sat@email.com | 9121866524   | 2020-01-20 | 103    | 40000
| 11.88      | 9         | 23            |
|          5 | devansh    | julakanti | dev@email.com | 9121966825   | 2020-02-17 | 104    |
50000 | 13.78      | 10        | 24            |
+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+
5 rows in set (0.00 sec)

```

### 5. mysql> select productname, quantity per unit from products3;

```

+-----+-----+
| productname | quantity per unit |
+-----+-----+
| 'product A' | 15.99             |
| 'product B' | 8.49              |
| 'product C' | 22.99             |
| 'product D' | 12.99             |
| 'product E' | 18.50             |
| product F   | 20.77             |

```

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

**6. mysql> select productid, productname from products3 where discontinued = 0;**

```
+-----+-----+
| productid | productname |
+-----+-----+
|      1 | 'product A' |
|      2 | 'product B' |
|      4 | 'product D' |
|      5 | 'product E' |
+-----+-----+
4 rows in set (0.00 sec)
```

**7. mysql> select productid, productname from products3 where discontinued = 1;**

```
+-----+-----+
| productid | productname |
+-----+-----+
|      3 | 'product C' |
|      6 | product F  |
+-----+-----+
2 rows in set (0.00 sec)
```

**8. mysql> select productname,unitprice from products3 order by unitprice DESC;**

```
+-----+-----+
| productname | unitprice |
+-----+-----+
| 'product A' | 99.00 |
| 'product C' | 99.00 |
| 'product D' | 99.00 |
| product F  | 70.00 |
| 'product E' | 50.00 |
| 'product B' | 49.00 |
+-----+-----+
6 rows in set (0.00 sec)
```

**9. mysql> select productname,unitprice from products3 order by unitprice ASC;**

```
+-----+-----+
| productname | unitprice |
+-----+-----+
| 'product B' | 49.00 |
| 'product E' | 50.00 |
```

|               |       |
|---------------|-------|
| product F     | 70.00 |
| 'product A'   | 99.00 |
| 'product C'   | 99.00 |
| 'product D'   | 99.00 |
| +-----+-----+ |       |

6 rows in set (0.00 sec)

**10. mysql> select productname,unitprice from products3 order by unitprice ASC LIMIT 1;**

|               |           |
|---------------|-----------|
| +-----+-----+ |           |
| productname   | unitprice |
| +-----+-----+ |           |
| 'product B'   | 49.00     |
| +-----+-----+ |           |

1 row in set (0.00 sec)

**11. mysql> select productname,unitprice from products3 order by unit price DESC LIMIT 3;**

|               |           |
|---------------|-----------|
| +-----+-----+ |           |
| productname   | unitprice |
| +-----+-----+ |           |
| 'product A'   | 99.00     |
| 'product C'   | 99.00     |
| 'product D'   | 99.00     |
| +-----+-----+ |           |

3 rows in set (0.00 sec)

**12. mysql> select productid, productname,unitprice from products3 where unitprice > 20;**

|                     |             |           |
|---------------------|-------------|-----------|
| +-----+-----+-----+ |             |           |
| productid           | productname | unitprice |
| +-----+-----+-----+ |             |           |
| 1                   | 'product A' | 99.00     |
| 2                   | 'product B' | 49.00     |
| 3                   | 'product C' | 99.00     |
| 4                   | 'product D' | 99.00     |
| 5                   | 'product E' | 50.00     |
| 6                   | product F   | 70.00     |
| +-----+-----+-----+ |             |           |

6 rows in set (0.00 sec)

mysql> select productid, productname,unitprice from products3 where unitprice < 20;  
Empty set (0.00 sec)

**13. mysql> INSERT INTO departments5(department\_id, department\_name, location\_id) VALUES (6, 'strategy', 106), (7, 'development', 107), (8, 'management', 108), (9, 'product', 109),(10, 'supply chain', 110),(11, 'quality', 111), (12, 'production',**

112), (13, 'admin', 113), (14, 'r&d', 114), (15, 'customer', 115), (16, 'support', 116), (17, 'operations', 117), (18, 'legal', 118), (19, 'corporate', 119), (20, 'business', 120), (21, 'protection', 121);

Query OK, 16 rows affected (0.02 sec)

Records: 16 Duplicates: 0 Warnings: 0

#### 14. mysql> select \* from departments5;

```
+-----+-----+-----+
| department_id | department_name | location_id |
+-----+-----+-----+
| 1 | sales | 101 |
| 2 | hr | 102 |
| 3 | marketing | 103 |
| 4 | finance | 104 |
| 5 | se | 105 |
| 6 | strategy | 106 |
| 7 | development | 107 |
| 8 | management | 108 |
| 9 | product | 109 |
| 10 | supply chain | 110 |
| 11 | quality | 111 |
| 12 | production | 112 |
| 13 | admin | 113 |
| 14 | r&d | 114 |
| 15 | customer | 115 |
| 16 | support | 116 |
| 17 | operations | 117 |
| 18 | legal | 118 |
| 19 | corporate | 119 |
| 20 | business | 120 |
| 21 | protection | 121 |
+-----+-----+-----+
```

21 rows in set (0.00 sec)

15. mysql> INSERT INTO employees9 (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, commission\_pct, manager\_id, department\_id) VALUES(1001, 'John', 'Doe', 'johndoe@example.com', '555-1234', '2023-01-15', 'IT\_PROG', 55000, 0.10, 101, 30), (1002, 'Jane', 'Smith', 'janesmith@example.com', '555-5678', '2023-02-10', 'SA\_REP', 45000, 0.15, 102, 20), (1003, 'Michael', 'Johnson', 'michaelj@example.com', '555-8765', '2023-03-20', 'MK\_MAN', 72000, NULL, 103, 10), (1004, 'Emily', 'Davis', 'emilydavis@example.com', '555-2345', '2023-01-30', 'HR\_REP', 38000, 0.05, 104, 50), (1005, 'James', 'Wilson', 'jameswilson@example.com', '555-3456', '2023-02-25', 'FI\_ACCOUNT', 52000, NULL, 105, 40), (1006, 'Sarah', 'Moore', 'sarahmoore@example.com', '555-6543', '2023-03-15', 'ST\_CLERK', 29000, NULL, 106, 60), (1007, 'David', 'Taylor', 'davidtaylor@example.com', '555-4321', '2023-04-10', 'IT\_PROG', 58000, 0.12, 101, 30), (1008, 'Olivia', 'Anderson', 'oliviaa@example.com', '555-7890', '2023-05-05', 'SA\_REP', 46000, 0.18, 102, 20), (1009, 'Daniel', 'Thomas',

'danielthomas@example.com', '555-6789', '2023-06-25', 'MK\_MAN', 75000, NULL, 103, 10),(1010, 'Sophia', 'Martinez', 'sophiamartinez@example.com', '555-9876', '2023-07-18', 'HR\_REP', 40000, 0.07, 104, 50),(1011, 'Benjamin', 'Clark', 'benjaminclark@example.com', '555-1928', '2023-08-22', 'FI\_ACCOUNT', 55000, NULL, 105, 40),(1012, 'Charlotte', 'Rodriguez', 'charlotterodriguez@example.com', '555-2846', '2023-09-30', 'ST\_CLERK', 30000, NULL, 106, 60),(1013, 'Ethan', 'Lewis', 'ethanlewis@example.com', '555-1427', '2023-10-05', 'IT\_PROG', 60000, 0.14, 101, 30),(1014, 'Amelia', 'Walker', 'ameliawalker@example.com', '555-5511', '2023-11-10', 'SA\_REP', 47000, 0.16, 102, 20),(1015, 'Mason', 'Hall', 'masonhall@example.com', '555-8347', '2023-12-20', 'MK\_MAN', 73000, NULL, 103, 10),(1016, 'Harper', 'Allen', 'harperallen@example.com', '555-2654', '2023-01-05', 'HR\_REP', 39000, 0.06, 104, 50),(1017, 'Lucas', 'Young', 'lucasyoung@example.com', '555-7654', '2023-02-17', 'FI\_ACCOUNT', 54000, NULL, 105, 40),(1018, 'Ella', 'King', 'ellaking@example.com', '555-6574', '2023-03-28', 'ST\_CLERK', 31000, NULL, 106, 60),(1019, 'Jack', 'Scott', 'jackscott@example.com', '555-3210', '2023-04-02', 'IT\_PROG', 61000, 0.13, 101, 30),(1020, 'Grace', 'Harris', 'graceharris@example.com', '555-1123', '2023-05-15', 'SA\_REP', 48000, 0.17, 102, 20);  
Query OK, 20 rows affected (0.01 sec)  
Records: 20 Duplicates: 0 Warnings: 0

## 16. mysql> select \* from employees9;

| employee_id | first_name | last_name | email                   | phone_number | hire_date  | job_id     | salary | commission_pct | manager_id | department_id |
|-------------|------------|-----------|-------------------------|--------------|------------|------------|--------|----------------|------------|---------------|
| 1           | Suneetha   | vemula    | sun@email.com           | 9121866524   | 2020-01-10 | 100        | 10000  | 10.90          | 6          | 20            |
| 2           | Sudha      | julakanti | sud@email.com           | 9121966825   | 2021-02-11 | 101        | 20000  | 12.99          | 7          | 21            |
| 3           | sanju      | vemula    | san@email.com           | 9637711612   | 2022-03-14 | 102        | 30000  | 10.99          | 8          | 22            |
| 4           | satvik     | vennela   | sat@email.com           | 9121866524   | 2020-01-20 | 103        | 40000  | 11.88          | 9          | 23            |
| 5           | devansh    | julakanti | dev@email.com           | 9121966825   | 2020-02-17 | 104        | 50000  | 13.78          | 10         | 24            |
| 1001        | John       | Doe       | johndoe@example.com     | 555-1234     | 2023-01-15 | IT_PROG    | 55000  | 0.10           | 101        | 30            |
| 1002        | Jane       | Smith     | janesmith@example.com   | 555-5678     | 2023-02-10 | SA_REP     | 45000  | 0.15           | 102        | 20            |
| 1003        | Michael    | Johnson   | michaelj@example.com    | 555-8765     | 2023-03-20 | MK_MAN     | 72000  | NULL           | 103        | 10            |
| 1004        | Emily      | Davis     | emilydavis@example.com  | 555-2345     | 2023-01-30 | HR_REP     | 38000  | 0.05           | 104        | 50            |
| 1005        | James      | Wilson    | jameswilson@example.com | 555-3456     | 2023-02-25 | FI_ACCOUNT | 52000  | NULL           | 105        | 40            |

|            |            |           |                                |          |            |
|------------|------------|-----------|--------------------------------|----------|------------|
| 1006       | Sarah      | Moore     | sarahmoore@example.com         | 555-6543 |            |
| 2023-03-15 | ST_CLERK   | 29000     | NULL                           | 106      | 60         |
| 1007       | David      | Taylor    | davidtaylor@example.com        | 555-4321 | 2023-04-10 |
| IT_PROG    | 58000      | 0.12      | 101                            | 30       |            |
| 1008       | Olivia     | Anderson  | oliviana@example.com           | 555-7890 | 2023-05-05 |
| SA_REP     | 46000      | 0.18      | 102                            | 20       |            |
| 1009       | Daniel     | Thomas    | danielthomas@example.com       | 555-6789 |            |
| 2023-06-25 | MK_MAN     | 75000     | NULL                           | 103      | 10         |
| 1010       | Sophia     | Martinez  | sophiamartinez@example.com     | 555-9876 |            |
| 2023-07-18 | HR_REP     | 40000     | 0.07                           | 104      | 50         |
| 1011       | Benjamin   | Clark     | benjaminclark@example.com      | 555-1928 |            |
| 2023-08-22 | FI_ACCOUNT | 55000     | NULL                           | 105      | 40         |
| 1012       | Charlotte  | Rodriguez | charlotterodriguez@example.com | 555-2846 |            |
| 2023-09-30 | ST_CLERK   | 30000     | NULL                           | 106      | 60         |
| 1013       | Ethan      | Lewis     | ethanlewis@example.com         | 555-1427 | 2023-10-05 |
| IT_PROG    | 60000      | 0.14      | 101                            | 30       |            |
| 1014       | Amelia     | Walker    | ameliawalker@example.com       | 555-5511 |            |
| 2023-11-10 | SA_REP     | 47000     | 0.16                           | 102      | 20         |
| 1015       | Mason      | Hall      | masonhall@example.com          | 555-8347 | 2023-12-20 |
| MK_MAN     | 73000      | NULL      | 103                            | 10       |            |
| 1016       | Harper     | Allen     | harperallen@example.com        | 555-2654 | 2023-01-05 |
| HR_REP     | 39000      | 0.06      | 104                            | 50       |            |
| 1017       | Lucas      | Young     | lucasyoung@example.com         | 555-7654 |            |
| 2023-02-17 | FI_ACCOUNT | 54000     | NULL                           | 105      | 40         |
| 1018       | Ella       | King      | ellaking@example.com           | 555-6574 | 2023-03-28 |
| ST_CLERK   | 31000      | NULL      | 106                            | 60       |            |
| 1019       | Jack       | Scott     | jackscott@example.com          | 555-3210 | 2023-04-02 |
| IT_PROG    | 61000      | 0.13      | 101                            | 30       |            |
| 1020       | Grace      | Harris    | graceharris@example.com        | 555-1123 | 2023-05-15 |
| SA_REP     | 48000      | 0.17      | 102                            | 20       |            |

25 rows in set (0.00 sec)

**17. mysql> select first\_name, last\_name, job\_id, salary from employees9 where first\_name LIKE 'S%';**

| first_name | last_name | job_id   | salary |
|------------|-----------|----------|--------|
| Suneetha   | vemula    | 100      | 10000  |
| Sudha      | julakanti | 101      | 20000  |
| sanju      | vemula    | 102      | 30000  |
| satvik     | vennela   | 103      | 40000  |
| Sarah      | Moore     | ST_CLERK | 29000  |
| Sophia     | Martinez  | HR_REP   | 40000  |

6 rows in set (0.00 sec)

**18. mysql> select first\_name, last\_name, job\_id, salary from employees9  
where first\_name LIKE '%S';**

```
+-----+-----+-----+-----+
| first_name | last_name | job_id  | salary |
+-----+-----+-----+-----+
| James     | Wilson   | FI_ACCOUNT | 52000 |
| Lucas     | Young    | FI_ACCOUNT | 54000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

**19. mysql> select first\_name, last\_name, salary from employees 9 order by  
salary DESC;**

```
+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Daniel     | Thomas   | 75000 |
| Mason      | Hall     | 73000 |
| Michael    | Johnson  | 72000 |
| Jack       | Scott    | 61000 |
| Ethan      | Lewis    | 60000 |
| David      | Taylor   | 58000 |
| John       | Doe      | 55000 |
| Benjamin   | Clark    | 55000 |
| Lucas      | Young    | 54000 |
| James      | Wilson   | 52000 |
| devansh    | julakanti | 50000 |
| Grace      | Harris   | 48000 |
| Amelia     | Walker   | 47000 |
| Olivia     | Anderson | 46000 |
| Jane       | Smith    | 45000 |
| satvik     | vennela  | 40000 |
| Sophia     | Martinez | 40000 |
| Harper     | Allen    | 39000 |
| Emily      | Davis    | 38000 |
| Ella       | King     | 31000 |
| sanju      | vemula   | 30000 |
| Charlotte  | Rodriguez | 30000 |
| Sarah      | Moore    | 29000 |
| Sudha      | julakanti | 20000 |
| Suneetha   | vemula   | 10000 |
+-----+-----+-----+
25 rows in set (0.00 sec)
```

**20. mysql> select first\_name, last\_name, salary from employees 9 order  
by salary DESC LIMIT 1;**



```

+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Daniel    | Thomas    | 75000   |
+-----+-----+-----+
1 row in set (0.00 sec)

```

**21. mysql> select first\_name, last\_name, salary from employees 9 order by salary DESC LIMIT 5;**

```

+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Daniel    | Thomas    | 75000   |
| Mason     | Hall      | 73000   |
| Michael   | Johnson   | 72000   |
| Jack      | Scott     | 61000   |
| Ethan     | Lewis     | 60000   |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

**22. mysql> select first\_name, last\_name, salary from employees 9 order by salary ASC LIMIT 5;**

```

+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Suneetha  | vemula    | 10000   |
| Sudha     | julakanti | 20000   |
| Sarah     | Moore     | 29000   |
| sanju     | vemula    | 30000   |
| Charlotte | Rodriguez | 30000   |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

**23. mysql> select first\_name, last\_name, salary from employees 9 order by salary DESC LIMIT 1 OFFSET 1;**

```

+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Mason     | Hall      | 73000   |
+-----+-----+-----+
1 row in set (0.00 sec)

```

**24. mysql> SELECT employee\_id, first\_name, last\_name, salary FROM employees 9 ORDER BY salary DESC LIMIT 2 OFFSET 1;**

```

+-----+-----+-----+-----+
| employee_id | first_name | last_name | salary |
+-----+-----+-----+-----+

```

```

+-----+-----+-----+-----+
| 1015 | Mason   | Hall   | 73000 |
| 1003 | Michael | Johnson | 72000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

**25. mysql> SELECT e.employee\_id, CONCAT(e.first\_name, ' ', e.last\_name) AS employee\_name, e.salary AS employee\_salary, CONCAT(m.first\_name, ' ', m.last\_name) AS manager\_name, m.salary AS manager\_salary FROM employees9 e LEFT JOIN employees9 m ON e.manager\_id = m.employee\_id;**

```

+-----+-----+-----+-----+
| employee_id | employee_name      | employee_salary | manager_name | manager_salary |
+-----+-----+-----+-----+
| 1 | Suneetha vemula   | 10000          | NULL        | NULL          |
| 2 | Sudha julakanti   | 20000          | NULL        | NULL          |
| 3 | sanju vemula      | 30000          | NULL        | NULL          |
| 4 | satvik vennela    | 40000          | NULL        | NULL          |
| 5 | devansh julakanti | 50000          | NULL        | NULL          |
| 1001 | John Doe          | 55000          | NULL        | NULL          |
| 1002 | Jane Smith        | 45000          | NULL        | NULL          |
| 1003 | Michael Johnson   | 72000          | NULL        | NULL          |
| 1004 | Emily Davis       | 38000          | NULL        | NULL          |
| 1005 | James Wilson      | 52000          | NULL        | NULL          |
| 1006 | Sarah Moore       | 29000          | NULL        | NULL          |
| 1007 | David Taylor      | 58000          | NULL        | NULL          |
| 1008 | Olivia Anderson   | 46000          | NULL        | NULL          |
| 1009 | Daniel Thomas     | 75000          | NULL        | NULL          |
| 1010 | Sophia Martinez   | 40000          | NULL        | NULL          |
| 1011 | Benjamin Clark    | 55000          | NULL        | NULL          |
| 1012 | Charlotte Rodriguez | 30000          | NULL        | NULL          |
| 1013 | Ethan Lewis       | 60000          | NULL        | NULL          |
| 1014 | Amelia Walker     | 47000          | NULL        | NULL          |
| 1015 | Mason Hall        | 73000          | NULL        | NULL          |
| 1016 | Harper Allen      | 39000          | NULL        | NULL          |
| 1017 | Lucas Young       | 54000          | NULL        | NULL          |
| 1018 | Ella King         | 31000          | NULL        | NULL          |
| 1019 | Jack Scott        | 61000          | NULL        | NULL          |
| 1020 | Grace Harris      | 48000          | NULL        | NULL          |
+-----+-----+-----+-----+
25 rows in set (0.01 sec)

```

**26. mysql> SELECT m.employee\_id AS manager\_id, CONCAT(m.first\_name, ' ', m.last\_name) AS manager\_name, COUNT(e.employee\_id) AS employee\_count FROM employees 9 e LEFT**

**JOIN employees 9 m ON e.manager\_id = m.employee\_id GROUP BY m.employee\_id ORDER BY employee\_count DESC;**

```
+-----+-----+-----+
| manager_id | manager_name | employee_count |
+-----+-----+-----+
|    NULL    | NULL         |          25    |
+-----+-----+-----+
1 row in set (0.01 sec)
```

**27. mysql> select \* from employees9;**

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| employee_id | first_name | last_name | email | phone_number | hire_date | job_id | salary | commission_pct | manager_id | department_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|          1 | Suneetha | vemula | sun@email.com | 9121866524 | 2020-01-10 | 100 | 10000 | 10.90 | 6 | 20 |
|          2 | Sudha | julakanti | sud@email.com | 9121966825 | 2021-02-11 | 101 | 20000 | 12.99 | 7 | 21 |
|          3 | sanju | vemula | san@email.com | 9637711612 | 2022-03-14 | 102 | 30000 | 10.99 | 8 | 22 |
|          4 | satvik | vennela | sat@email.com | 9121866524 | 2020-01-20 | 103 | 40000 | 11.88 | 9 | 23 |
|          5 | devansh | julakanti | dev@email.com | 9121966825 | 2020-02-17 | 104 | 50000 | 13.78 | 10 | 24 |
|       1001 | John | Doe | johndoe@example.com | 555-1234 | 2023-01-15 | IT_PROG | 55000 | 0.10 | 101 | 30 |
|       1002 | Jane | Smith | janesmith@example.com | 555-5678 | 2023-02-10 | SA_REP | 45000 | 0.15 | 102 | 20 |
|       1003 | Michael | Johnson | michaelj@example.com | 555-8765 | 2023-03-20 | MK_MAN | 72000 | NULL | 103 | 10 |
|       1004 | Emily | Davis | emilydavis@example.com | 555-2345 | 2023-01-30 | HR_REP | 38000 | 0.05 | 104 | 50 |
|       1005 | James | Wilson | jameswilson@example.com | 555-3456 | 2023-02-25 | FI_ACCOUNT | 52000 | NULL | 105 | 40 |
|       1006 | Sarah | Moore | sarahmoore@example.com | 555-6543 | 2023-03-15 | ST_CLERK | 29000 | NULL | 106 | 60 |
|       1007 | David | Taylor | davidtaylor@example.com | 555-4321 | 2023-04-10 | IT_PROG | 58000 | 0.12 | 101 | 30 |
|       1008 | Olivia | Anderson | oliviaa@example.com | 555-7890 | 2023-05-05 | SA_REP | 46000 | 0.18 | 102 | 20 |
|       1009 | Daniel | Thomas | danielthomas@example.com | 555-6789 | 2023-06-25 | MK_MAN | 75000 | NULL | 103 | 10 |
|       1010 | Sophia | Martinez | sophiamartinez@example.com | 555-9876 | 2023-07-18 | HR_REP | 40000 | 0.07 | 104 | 50 |
```

|                                       |            |           |                                |          |            |
|---------------------------------------|------------|-----------|--------------------------------|----------|------------|
| 1011                                  | Benjamin   | Clark     | benjaminclark@example.com      | 555-1928 |            |
| 2023-08-22                            | FI_ACCOUNT | 55000     | NULL                           | 105      | 40         |
| 1012                                  | Charlotte  | Rodriguez | charlotterodriguez@example.com | 555-2846 |            |
| 2023-09-30                            | ST_CLERK   | 30000     | NULL                           | 106      | 60         |
| 1013                                  | Ethan      | Lewis     | ethanlewis@example.com         | 555-1427 | 2023-10-05 |
| IT_PROG                               | 60000      | 0.14      | 101                            | 30       |            |
| 1014                                  | Amelia     | Walker    | ameliawalker@example.com       | 555-5511 |            |
| 2023-11-10                            | SA_REP     | 47000     | 0.16                           | 102      | 20         |
| 1015                                  | Mason      | Hall      | masonhall@example.com          | 555-8347 | 2023-12-20 |
| MK_MAN                                | 73000      | NULL      | 103                            | 10       |            |
| 1016                                  | Harper     | Allen     | harperallen@example.com        | 555-2654 | 2023-01-05 |
| HR_REP                                | 39000      | 0.06      | 104                            | 50       |            |
| 1017                                  | Lucas      | Young     | lucasyoung@example.com         | 555-7654 |            |
| 2023-02-17                            | FI_ACCOUNT | 54000     | NULL                           | 105      | 40         |
| 1018                                  | Ella       | King      | ellaking@example.com           | 555-6574 | 2023-03-28 |
| ST_CLERK                              | 31000      | NULL      | 106                            | 60       |            |
| 1019                                  | Jack       | Scott     | jackscott@example.com          | 555-3210 | 2023-04-02 |
| IT_PROG                               | 61000      | 0.13      | 101                            | 30       |            |
| 1020                                  | Grace      | Harris    | graceharris@example.com        | 555-1123 | 2023-05-15 |
| SA_REP                                | 48000      | 0.17      | 102                            | 20       |            |
| +-----+-----+-----+-----+-----+-----+ |            |           |                                |          |            |

25 rows in set (0.00 sec)

```
28. mysql> SELECT department_id, COUNT(employee_id) AS  
employee_count FROM employees 9 GROUP BY department_id ORDER BY  
employee_count DESC;
```

| department\_id | employee\_count |

|    |  |   |
|----|--|---|
| 20 |  | 5 |
| 30 |  | 4 |
| 10 |  | 3 |
| 50 |  | 3 |
| 40 |  | 3 |
| 60 |  | 3 |
| 21 |  | 1 |
| 22 |  | 1 |
| 23 |  | 1 |
| 24 |  | 1 |

10 rows in set (0.00 sec)

```
29. mysql> SELECT department_id, COUNT(employee_id) AS  
employee_count FROM employees 9 GROUP BY department_id;
```

| department id | employee count |

| 20 | 5 |
|----|---|
| 21 | 1 |
| 22 | 1 |
| 23 | 1 |
| 24 | 1 |
| 30 | 4 |
| 10 | 3 |
| 50 | 3 |
| 40 | 3 |
| 60 | 3 |

10 rows in set (0.00 sec)

**30. mysql> SELECT YEAR(hire\_date) AS hire\_year,  
COUNT(employee\_id) AS employee\_count FROM employees 9 GROUP  
BY hire\_year ORDER BY hire\_year DESC;**

| hire_year | employee_count |
|-----------|----------------|
| 2023      | 20             |
| 2022      | 1              |
| 2021      | 1              |
| 2020      | 3              |

4 rows in set (0.01 sec)

**31. mysql> SELECT YEAR(hire\_date) AS hire\_year,  
COUNT(employee\_id) AS employee\_count FROM employees 9 GROUP  
BY hire\_year ORDER BY hire\_year;**

| hire_year | employee_count |
|-----------|----------------|
| 2020      | 3              |
| 2021      | 1              |
| 2022      | 1              |
| 2023      | 20             |

4 rows in set (0.00 sec)

**32. mysql> SELECT YEAR(hire\_date) AS hire\_year,  
COUNT(employee\_id) AS employee\_count FROM employees 9 GROUP  
BY hire\_year ORDER BY hire\_year ASC;**

| hire_year | employee_count |
|-----------|----------------|
|-----------|----------------|

```

+-----+-----+
| 2020 | 3 |
| 2021 | 1 |
| 2022 | 1 |
| 2023 | 20 |
+-----+-----+

```

4 rows in set (0.00 sec)

**33. mysql> SELECT MIN(salary) AS min\_salary, MAX(salary) AS max\_salary FROM employees9;**

```

+-----+-----+
| min_salary | max_salary |
+-----+-----+
| 10000      | 75000      |
+-----+-----+

```

1 row in set (0.00 sec)

**34. mysql> select AVG(salary) from employees9;**

```

+-----+
| AVG(salary) |
+-----+
| 46320       |
+-----+

```

1 row in set (0.00 sec)

**35. mysql> SELECT employee\_id, first\_name, last\_name, salary, CASE WHEN salary < 40000 THEN 'Low Salary' WHEN salary BETWEEN 40000 AND 70000 THEN 'Medium Salary' ELSE 'High Salary' END AS salary\_group FROM employees9;**

```

+-----+-----+-----+-----+-----+
| employee_id | first_name | last_name | salary | salary_group |
+-----+-----+-----+-----+-----+
| 1 | Suneetha | vemula | 10000 | Low Salary |
| 2 | Sudha | julakanti | 20000 | Low Salary |
| 3 | sanju | vemula | 30000 | Low Salary |
| 4 | satvik | vennela | 40000 | Medium Salary |
| 5 | devansh | julakanti | 50000 | Medium Salary |
| 1001 | John | Doe | 55000 | Medium Salary |
| 1002 | Jane | Smith | 45000 | Medium Salary |
| 1003 | Michael | Johnson | 72000 | High Salary |
| 1004 | Emily | Davis | 38000 | Low Salary |
| 1005 | James | Wilson | 52000 | Medium Salary |
| 1006 | Sarah | Moore | 29000 | Low Salary |
| 1007 | David | Taylor | 58000 | Medium Salary |
| 1008 | Olivia | Anderson | 46000 | Medium Salary |

```

|  |      |           |           |       |               |  |
|--|------|-----------|-----------|-------|---------------|--|
|  | 1009 | Daniel    | Thomas    | 75000 | High Salary   |  |
|  | 1010 | Sophia    | Martinez  | 40000 | Medium Salary |  |
|  | 1011 | Benjamin  | Clark     | 55000 | Medium Salary |  |
|  | 1012 | Charlotte | Rodriguez | 30000 | Low Salary    |  |
|  | 1013 | Ethan     | Lewis     | 60000 | Medium Salary |  |
|  | 1014 | Amelia    | Walker    | 47000 | Medium Salary |  |
|  | 1015 | Mason     | Hall      | 73000 | High Salary   |  |
|  | 1016 | Harper    | Allen     | 39000 | Low Salary    |  |
|  | 1017 | Lucas     | Young     | 54000 | Medium Salary |  |
|  | 1018 | Ella      | King      | 31000 | Low Salary    |  |
|  | 1019 | Jack      | Scott     | 61000 | Medium Salary |  |
|  | 1020 | Grace     | Harris    | 48000 | Medium Salary |  |

25 rows in set (0.00 sec)

**36. mysql> SELECT employee\_id, first\_name, last\_name, email, salary FROM employees 9 WHERE first\_name LIKE '%an%';**

|  |             |            |           |                          |        |  |
|--|-------------|------------|-----------|--------------------------|--------|--|
|  | employee_id | first_name | last_name | email                    | salary |  |
|  | 3           | sanju      | vemula    | san@email.com            | 30000  |  |
|  | 5           | devansh    | julakanti | dev@email.com            | 50000  |  |
|  | 1002        | Jane       | Smith     | janesmith@example.com    | 45000  |  |
|  | 1009        | Daniel     | Thomas    | danielthomas@example.com | 75000  |  |
|  | 1013        | Ethan      | Lewis     | ethanlewis@example.com   | 60000  |  |

5 rows in set (0.00 sec)

**37. mysql> SELECT employee\_id, first\_name FROM employees 9 WHERE first\_name LIKE '%an%';**

|  |             |            |  |
|--|-------------|------------|--|
|  | employee_id | first_name |  |
|  | 3           | sanju      |  |
|  | 5           | devansh    |  |
|  | 1002        | Jane       |  |
|  | 1009        | Daniel     |  |
|  | 1013        | Ethan      |  |

5 rows in set (0.00 sec)

**38. mysql> SELECT first\_name, CONCAT('(', SUBSTRING(phone\_number, 1, 3), '-')-**

**SUBSTRING(phone\_number, 4, 3), '-',  
SUBSTRING(phone\_number, 7, 4)) AS formatted\_phone\_number FROM  
employees9;**

```
+-----+-----+
| first_name | formatted_phone_number |
+-----+-----+
| Suneetha   | (912)-186-6524        |
| Sudha      | (912)-196-6825        |
| sanju      | (963)-771-1612        |
| satvik     | (912)-186-6524        |
| devansh    | (912)-196-6825        |
| John       | (555)--12-34          |
| Jane       | (555)--56-78          |
| Michael    | (555)--87-65          |
| Emily      | (555)--23-45          |
| James      | (555)--34-56          |
| Sarah      | (555)--65-43          |
| David      | (555)--43-21          |
| Olivia     | (555)--78-90          |
| Daniel     | (555)--67-89          |
| Sophia     | (555)--98-76          |
| Benjamin   | (555)--19-28          |
| Charlotte  | (555)--28-46          |
| Ethan      | (555)--14-27          |
| Amelia     | (555)--55-11          |
| Mason      | (555)--83-47          |
| Harper     | (555)--26-54          |
| Lucas      | (555)--76-54          |
| Ella       | (555)--65-74          |
| Jack       | (555)--32-10          |
| Grace      | (555)--11-23          |
+-----+-----+
25 rows in set (0.00 sec)
```

**39. mysql> SELECT first\_name, CONCAT('(', LEFT(phone\_number,  
3), ')-', MID(phone\_number, 4, 3), '-',  
RIGHT(phone\_number, 4)) AS formatted\_phone\_number FROM  
employees9;**

```
+-----+-----+
| first_name | formatted_phone_number |
+-----+-----+
| Suneetha   | (912)-186-6524        |
| Sudha      | (912)-196-6825        |
| sanju      | (963)-771-1612        |
```



|           |                |  |
|-----------|----------------|--|
| satvik    | (912)-186-6524 |  |
| devansh   | (912)-196-6825 |  |
| John      | (555)--12-1234 |  |
| Jane      | (555)--56-5678 |  |
| Michael   | (555)--87-8765 |  |
| Emily     | (555)--23-2345 |  |
| James     | (555)--34-3456 |  |
| Sarah     | (555)--65-6543 |  |
| David     | (555)--43-4321 |  |
| Olivia    | (555)--78-7890 |  |
| Daniel    | (555)--67-6789 |  |
| Sophia    | (555)--98-9876 |  |
| Benjamin  | (555)--19-1928 |  |
| Charlotte | (555)--28-2846 |  |
| Ethan     | (555)--14-1427 |  |
| Amelia    | (555)--55-5511 |  |
| Mason     | (555)--83-8347 |  |
| Harper    | (555)--26-2654 |  |
| Lucas     | (555)--76-7654 |  |
| Ella      | (555)--65-6574 |  |
| Jack      | (555)--32-3210 |  |
| Grace     | (555)--11-1123 |  |

+-----+-----+

25 rows in set (0.01 sec)

40. mysql> SELECT first\_name, REGEXP\_REPLACE(phone\_number, '(\d{3})(\d{3})(\d{4})', '(\1)-(\2)-(\3)') AS formatted\_phone\_number FROM employees9;

+-----+-----+

| first_name | formatted_phone_number |  |
|------------|------------------------|--|
|------------|------------------------|--|

+-----+-----+

|          |             |  |
|----------|-------------|--|
| Suneetha | (1)-(2)-(3) |  |
| Sudha    | (1)-(2)-(3) |  |
| sanju    | (1)-(2)-(3) |  |
| satvik   | (1)-(2)-(3) |  |
| devansh  | (1)-(2)-(3) |  |
| John     | 555-1234    |  |
| Jane     | 555-5678    |  |
| Michael  | 555-8765    |  |
| Emily    | 555-2345    |  |
| James    | 555-3456    |  |
| Sarah    | 555-6543    |  |
| David    | 555-4321    |  |
| Olivia   | 555-7890    |  |
| Daniel   | 555-6789    |  |

|           |          |  |
|-----------|----------|--|
| Sophia    | 555-9876 |  |
| Benjamin  | 555-1928 |  |
| Charlotte | 555-2846 |  |
| Ethan     | 555-1427 |  |
| Amelia    | 555-5511 |  |
| Mason     | 555-8347 |  |
| Harper    | 555-2654 |  |
| Lucas     | 555-7654 |  |
| Ella      | 555-6574 |  |
| Jack      | 555-3210 |  |
| Grace     | 555-1123 |  |

+-----+-----+

25 rows in set (0.03 sec)

41. mysql> SELECT employee\_id, first\_name, last\_name, hire\_date FROM employees9 WHERE MONTH(hire\_date) = 8 AND YEAR(hire\_date) = 1994;  
Empty set (0.00 sec)

mysql> SELECT \* from employees9;

| employee_id | first_name | last_name | email                  | phone_number | hire_date  | job_id  | salary | commission_pct | manager_id | department_id |
|-------------|------------|-----------|------------------------|--------------|------------|---------|--------|----------------|------------|---------------|
| 1           | Suneetha   | vemula    | sun@email.com          | 9121866524   | 2020-01-10 | 100     | 10000  | 10.90          | 6          | 20            |
| 2           | Sudha      | julakanti | sud@email.com          | 9121966825   | 2021-02-11 | 101     | 20000  | 12.99          | 7          | 21            |
| 3           | sanju      | vemula    | san@email.com          | 9637711612   | 2022-03-14 | 102     | 30000  | 10.99          | 8          | 22            |
| 4           | satvik     | vennela   | sat@email.com          | 9121866524   | 2020-01-20 | 103     | 40000  | 11.88          | 9          | 23            |
| 5           | devansh    | julakanti | dev@email.com          | 9121966825   | 2020-02-17 | 104     | 50000  | 13.78          | 10         | 24            |
| 1001        | John       | Doe       | johndoe@example.com    | 555-1234     | 2023-01-15 | IT_PROG | 55000  | 0.10           | 101        | 30            |
| 1002        | Jane       | Smith     | janesmith@example.com  | 555-5678     | 2023-02-10 | SA_REP  | 45000  | 0.15           | 102        | 20            |
| 1003        | Michael    | Johnson   | michaelj@example.com   | 555-8765     | 2023-03-20 | MK_MAN  | 72000  | NULL           | 103        | 10            |
| 1004        | Emily      | Davis     | emilydavis@example.com | 555-2345     | 2023-01-30 | HR_REP  | 38000  | 0.05           | 104        | 50            |

|                                       |            |           |                                |          |
|---------------------------------------|------------|-----------|--------------------------------|----------|
| 1005                                  | James      | Wilson    | jameswilson@example.com        | 555-3456 |
| 2023-02-25                            | FI_ACCOUNT | 52000     | NULL                           | 105 40   |
| 1006                                  | Sarah      | Moore     | sarahmoore@example.com         | 555-6543 |
| 2023-03-15                            | ST_CLERK   | 29000     | NULL                           | 106 60   |
| 1007                                  | David      | Taylor    | daviddtaylor@example.com       | 555-4321 |
| 2023-04-10                            | IT_PROG    | 58000     | 0.12                           | 101 30   |
| 1008                                  | Olivia     | Anderson  | oliviaa@example.com            | 555-7890 |
| 2023-05-05                            | SA_REP     | 46000     | 0.18                           | 102 20   |
| 1009                                  | Daniel     | Thomas    | danielthomas@example.com       | 555-6789 |
| 2023-06-25                            | MK_MAN     | 75000     | NULL                           | 103 10   |
| 1010                                  | Sophia     | Martinez  | sophiamartinez@example.com     | 555-9876 |
| 2023-07-18                            | HR_REP     | 40000     | 0.07                           | 104 50   |
| 1011                                  | Benjamin   | Clark     | benjaminclark@example.com      | 555-1928 |
| 2023-08-22                            | FI_ACCOUNT | 55000     | NULL                           | 105 40   |
| 1012                                  | Charlotte  | Rodriguez | charlotterodriguez@example.com | 555-2846 |
| 2023-09-30                            | ST_CLERK   | 30000     | NULL                           | 106 60   |
| 1013                                  | Ethan      | Lewis     | ethanlewis@example.com         | 555-1427 |
| 2023-10-05                            | IT_PROG    | 60000     | 0.14                           | 101 30   |
| 1014                                  | Amelia     | Walker    | ameliawalker@example.com       | 555-5511 |
| 2023-11-10                            | SA_REP     | 47000     | 0.16                           | 102 20   |
| 1015                                  | Mason      | Hall      | masonhall@example.com          | 555-8347 |
| 2023-12-20                            | MK_MAN     | 73000     | NULL                           | 103 10   |
| 1016                                  | Harper     | Allen     | harperallen@example.com        | 555-2654 |
| 2023-01-05                            | HR_REP     | 39000     | 0.06                           | 104 50   |
| 1017                                  | Lucas      | Young     | lucasyoung@example.com         | 555-7654 |
| 2023-02-17                            | FI_ACCOUNT | 54000     | NULL                           | 105 40   |
| 1018                                  | Ella       | King      | ellaking@example.com           | 555-6574 |
| 2023-03-28                            | ST_CLERK   | 31000     | NULL                           | 106 60   |
| 1019                                  | Jack       | Scott     | jackscott@example.com          | 555-3210 |
| 2023-04-02                            | IT_PROG    | 61000     | 0.13                           | 101 30   |
| 1020                                  | Grace      | Harris    | graceharris@example.com        | 555-1123 |
| 2023-05-15                            | SA_REP     | 48000     | 0.17                           | 102 20   |
| +-----+-----+-----+-----+-----+-----+ |            |           |                                |          |
| -----+-----+-----+-----+-----+        |            |           |                                |          |
| 25 rows in set (0.00 sec)             |            |           |                                |          |

2 rows in set (0.00 sec)

43. mysql> SELECT employee\_id, first\_name, last\_name, salary FROM employees9  
WHERE salary > (SELECT AVG(salary) FROM employees9);

```
+-----+-----+-----+-----+
| employee_id | first_name | last_name | salary |
+-----+-----+-----+-----+
|          5 | devansh   | julakanti | 50000 |
|        1001 | John      | Doe       | 55000 |
|        1003 | Michael   | Johnson   | 72000 |
|        1005 | James     | Wilson    | 52000 |
|        1007 | David     | Taylor    | 58000 |
|        1009 | Daniel    | Thomas    | 75000 |
|        1011 | Benjamin  | Clark     | 55000 |
|        1013 | Ethan     | Lewis     | 60000 |
|        1014 | Amelia    | Walker     | 47000 |
|        1015 | Mason     | Hall      | 73000 |
|        1017 | Lucas     | Young     | 54000 |
|        1019 | Jack      | Scott     | 61000 |
|        1020 | Grace     | Harris    | 48000 |
+-----+-----+-----+-----+
```

13 rows in set (0.00 sec)

44. mysql> SELECT salary FROM employees 9 WHERE salary > (SELECT  
AVG(salary) FROM employees9);

```
+-----+
| salary |
+-----+
| 50000 |
| 55000 |
| 72000 |
| 52000 |
| 58000 |
| 75000 |
| 55000 |
| 60000 |
| 47000 |
| 73000 |
| 54000 |
| 61000 |
| 48000 |
+-----+
```

13 rows in set (0.00 sec)

45. mysql> SELECT department\_id, MAX(salary) AS max\_salary FROM  
employees 9 GROUP BY department\_id;

```

+-----+-----+
| department_id | max_salary |
+-----+-----+
| 20           | 48000     |
| 21           | 20000     |
| 22           | 30000     |
| 23           | 40000     |
| 24           | 50000     |
| 30           | 61000     |
| 10           | 75000     |
| 50           | 40000     |
| 40           | 55000     |
| 60           | 31000     |
+-----+-----+
10 rows in set (0.00 sec)

```

46. mysql> SELECT department\_id, MAX(salary) FROM employees 9 GROUP BY department\_id;

```

+-----+-----+
| department_id | MAX(salary) |
+-----+-----+
| 20           | 48000       |
| 21           | 20000       |
| 22           | 30000       |
| 23           | 40000       |
| 24           | 50000       |
| 30           | 61000       |
| 10           | 75000       |
| 50           | 40000       |
| 40           | 55000       |
| 60           | 31000       |
+-----+-----+
10 rows in set (0.00 sec)

```

47. mysql> SELECT employee\_id, first\_name, last\_name, salary FROM employees 9 ORDER BY salary ASC;

```

+-----+-----+-----+-----+
| employee_id | first_name | last_name | salary |
+-----+-----+-----+-----+
| 1           | Suneetha  | vemula   | 10000  |
| 2           | Sudha     | julakanti | 20000  |
| 1006        | Sarah     | Moore    | 29000  |
| 3           | sanju     | vemula   | 30000  |
| 1012        | Charlotte | Rodriguez | 30000  |

```

|  |      |          |           |       |  |
|--|------|----------|-----------|-------|--|
|  | 1018 | Ella     | King      | 31000 |  |
|  | 1004 | Emily    | Davis     | 38000 |  |
|  | 1016 | Harper   | Allen     | 39000 |  |
|  | 4    | satvik   | vennela   | 40000 |  |
|  | 1010 | Sophia   | Martinez  | 40000 |  |
|  | 1002 | Jane     | Smith     | 45000 |  |
|  | 1008 | Olivia   | Anderson  | 46000 |  |
|  | 1014 | Amelia   | Walker    | 47000 |  |
|  | 1020 | Grace    | Harris    | 48000 |  |
|  | 5    | devansh  | julakanti | 50000 |  |
|  | 1005 | James    | Wilson    | 52000 |  |
|  | 1017 | Lucas    | Young     | 54000 |  |
|  | 1001 | John     | Doe       | 55000 |  |
|  | 1011 | Benjamin | Clark     | 55000 |  |
|  | 1007 | David    | Taylor    | 58000 |  |
|  | 1013 | Ethan    | Lewis     | 60000 |  |
|  | 1019 | Jack     | Scott     | 61000 |  |
|  | 1003 | Michael  | Johnson   | 72000 |  |
|  | 1015 | Mason    | Hall      | 73000 |  |
|  | 1009 | Daniel   | Thomas    | 75000 |  |

+-----+-----+-----+-----+

25 rows in set (0.00 sec)

48. mysql> SELECT employee\_id, first\_name, last\_name, salary FROM employees  
9 ORDER BY salary ASC LIMIT 5;

|  |      |           |           |       |  |
|--|------|-----------|-----------|-------|--|
|  | 1    | Suneetha  | vemula    | 10000 |  |
|  | 2    | Sudha     | julakanti | 20000 |  |
|  | 1006 | Sarah     | Moore     | 29000 |  |
|  | 3    | sanju     | vemula    | 30000 |  |
|  | 1012 | Charlotte | Rodriguez | 30000 |  |

+-----+-----+-----+-----+

5 rows in set (0.00 sec)

49. mysql> SELECT employee\_id, first\_name, last\_name, hire\_date FROM  
employees 9 WHERE DAY(hire\_date) = 23;  
Empty set (0.01 sec)

50. mysql> SELECT employee\_id, first\_name, last\_name, hire\_date FROM  
employees 9 WHERE DAY(hire\_date) =2023;  
Empty set (0.00 sec)

51. mysql> SELECT employee\_id, first\_name, last\_name, hire\_date FROM employees 9 WHERE DAY(hire\_date) =05;

```
+-----+-----+-----+-----+
| employee_id | first_name | last_name | hire_date |
+-----+-----+-----+-----+
|      1008 | Olivia    | Anderson | 2023-05-05 |
|      1013 | Ethan     | Lewis    | 2023-10-05 |
|      1016 | Harper    | Allen    | 2023-01-05 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

52. mysql> SELECT REVERSE(first\_name) AS reversed\_first\_name, REVERSE(last\_name) AS reversed\_last\_name FROM employees9;

```
+-----+-----+
| reversed_first_name | reversed_last_name |
+-----+-----+
| ahteenuS           | alumev             |
| ahduS              | itnakaluj          |
| ujnas              | alumev             |
| kivas              | alennev            |
| hsnaved            | itnakaluj          |
| rhoJ               | eoD                |
| enaJ               | htimS              |
| leahciM            | nosrhoJ            |
| ylimE              | sivaD              |
| semaJ              | nosliW             |
| haraS              | erooM              |
| divaD              | rolyaT             |
| aiviLO             | nosrednA           |
| leinaD             | samohT             |
| aihpoS             | zenitraM           |
| nimajneB           | kralC              |
| ettolahC           | zeugirdoR          |
| nahtE              | siweL              |
| ailemA             | reklaW             |
| nosaM              | llaH               |
| repraH             | nella              |
| sacuL              | gnuoY              |
| allE               | gniK               |
| kcaJ               | ttocS              |
| ecarG              | sirraH             |
+-----+-----+
25 rows in set (0.01 sec)
```

53. mysql> SELECT REVERSE(first\_name) , REVERSE(last\_name) FROM employees9;

```
+-----+-----+
| REVERSE(first_name) | REVERSE(last_name) |
+-----+-----+
| ahteenuS           | alumev             |
| ahduS              | itnakaluj          |
| ujnas              | alumev             |
| kivas              | alennev            |
| hsnaved            | itnakaluj          |
| nhoJ               | eoD                |
| enaJ               | htimS              |
| leahciM            | nosnhoJ            |
| ylimE              | sivaD               |
| semaJ              | nosliW              |
| haraS              | erooM               |
| divaD              | rolyaT              |
| aivilO             | nosrednA            |
| leinaD             | samohT              |
| aihpoS             | zenitraM            |
| nimajneB           | kralC               |
| ettolahC           | zeugirdoR           |
| nahtE              | siweL               |
| ailemA             | reklaW              |
| nosaM              | llaH                |
| repraH             | nella               |
| sacuL              | gnuoY               |
| allE               | gniK                |
| kcaJ               | ttocS               |
| ecarG              | sirraH              |
+-----+-----+
25 rows in set (0.00 sec)
```

54. mysql> SELECT employee\_id, first\_name, last\_name, hire\_date FROM employees 9 WHERE DAY(hire\_date) > 15;

```
+-----+-----+-----+-----+
| employee_id | first_name | last_name | hire_date |
+-----+-----+-----+-----+
| 4           | satvik     | vennela  | 2020-01-20 |
| 5           | devansh    | julakanti | 2020-02-17 |
| 1003        | Michael    | Johnson   | 2023-03-20 |
| 1004        | Emily      | Davis     | 2023-01-30 |
| 1005        | James      | Wilson    | 2023-02-25 |
| 1009        | Daniel     | Thomas    | 2023-06-25 |
```



```
| 1010 | Sophia | Martinez | 2023-07-18 |
| 1011 | Benjamin | Clark | 2023-08-22 |
| 1012 | Charlotte | Rodriguez | 2023-09-30 |
| 1015 | Mason | Hall | 2023-12-20 |
| 1017 | Lucas | Young | 2023-02-17 |
| 1018 | Ella | King | 2023-03-28 |
```

```
+-----+-----+-----+-----+
```

12 rows in set (0.00 sec)

55. mysql> SELECT \* FROM employees 9 WHERE DAY(hire\_date) > 15;

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
```

```
| employee_id | first_name | last_name | email | phone_number |
hire_date | job_id | salary | commission_pct | manager_id | department_id |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
```

```
| 4 | satvik | vennela | sat@email.com | 9121866524 |
2020-01-20 | 103 | 40000 | 11.88 | 9 | 23 |
| 5 | devansh | julakanti | dev@email.com | 9121966825 |
2020-02-17 | 104 | 50000 | 13.78 | 10 | 24 |
| 1003 | Michael | Johnson | michaelj@example.com | 555-8765 |
2023-03-20 | MK_MAN | 72000 | NULL | 103 | 10 |
| 1004 | Emily | Davis | emilydavis@example.com | 555-2345 |
2023-01-30 | HR_REP | 38000 | 0.05 | 104 | 50 |
| 1005 | James | Wilson | jameswilson@example.com | 555-3456 |
2023-02-25 | FI_ACCOUNT | 52000 | NULL | 105 | 40 |
| 1009 | Daniel | Thomas | danielthomas@example.com | 555-6789 |
2023-06-25 | MK_MAN | 75000 | NULL | 103 | 10 |
| 1010 | Sophia | Martinez | sophiamartinez@example.com | 555-9876 |
2023-07-18 | HR_REP | 40000 | 0.07 | 104 | 50 |
| 1011 | Benjamin | Clark | benjaminclark@example.com | 555-1928 |
2023-08-22 | FI_ACCOUNT | 55000 | NULL | 105 | 40 |
| 1012 | Charlotte | Rodriguez | charlotterodriguez@example.com | 555-2846 |
2023-09-30 | ST_CLERK | 30000 | NULL | 106 | 60 |
| 1015 | Mason | Hall | masonhall@example.com | 555-8347 |
2023-12-20 | MK_MAN | 73000 | NULL | 103 | 10 |
| 1017 | Lucas | Young | lucasyoung@example.com | 555-7654 |
2023-02-17 | FI_ACCOUNT | 54000 | NULL | 105 | 40 |
| 1018 | Ella | King | ellaking@example.com | 555-6574 |
2023-03-28 | ST_CLERK | 31000 | NULL | 106 | 60 |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
```

12 rows in set (0.00 sec)

56. mysql> SELECT employee\_id FROM employees 9 WHERE DAY(hire\_date) > 15;

```
+-----+
| employee_id |
+-----+
|      4 |
|      5 |
|    1003 |
|    1004 |
|    1005 |
|    1009 |
|    1010 |
|    1011 |
|    1012 |
|    1015 |
|    1017 |
|    1018 |
+-----+
```

12 rows in set (0.00 sec)

57. mysql> SELECT employee\_id, hire\_date FROM employees9 WHERE DAY(hire\_date) > 15;

```
+-----+-----+
| employee_id | hire_date |
+-----+-----+
|      4 | 2020-01-20 |
|      5 | 2020-02-17 |
|    1003 | 2023-03-20 |
|    1004 | 2023-01-30 |
|    1005 | 2023-02-25 |
|    1009 | 2023-06-25 |
|    1010 | 2023-07-18 |
|    1011 | 2023-08-22 |
|    1012 | 2023-09-30 |
|    1015 | 2023-12-20 |
|    1017 | 2023-02-17 |
|    1018 | 2023-03-28 |
+-----+-----+
```

12 rows in set (0.00 sec)