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MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.32 MySQL Community Server - GPL


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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE employee_manage;
Query OK, 1 row affected (0.09 sec)

mysql> USE employee_manage;
Database changed
mysql> CREATE TABLE employee
-> CREATE DATABASE employee_manage;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'CREATE DATABASE employee_manage' at line 2
mysql> CREATE DATABASE employee_manage;
ERROR 1007 (HY000): Can't create database 'employee_manage'; database exists
mysql> USE employee_manage;
Database changed
mysql> CREATE TABLE employee(employee_id INT NOT NULL AUTO_INCREMENT, Name VARCHAR(255) NOT NULL, DoB DATE NOT NULL, Salary DECIMAL(10,2) NOT NULL, Department_id INT NOT NULL, PRIMARY KEY(employee_id));
```

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MySQL 8.0 Command Line Client
mysql> CREATE DATABASE employee_management1;
ERROR 1007 (HY000): Can't create database 'employee_management1'; database exists
mysql>
mysql> USE employee_management1;
Database changed
mysql> CREATE TABLE Employee (
-> Employee_id INT NOT NULL AUTO_INCREMENT,
-> Name VARCHAR(255) NOT NULL,
-> DoB DATE NOT NULL,
-> Salary DECIMAL(10,2) NOT NULL,
-> Department_id INT NOT NULL,
-> PRIMARY KEY (Employee_id),
-> FOREIGN KEY (Department_id) REFERENCES Department(Department_id)
-> );
ERROR 1050 (42S01): Table 'employee' already exists
mysql>
mysql> CREATE TABLE Department (
-> Department_id INT NOT NULL AUTO_INCREMENT,
-> HOD_Name VARCHAR(255) NOT NULL,
-> PRIMARY KEY (Department_id)
-> );
ERROR 1050 (42S01): Table 'department' already exists
mysql> INSERT INTO Department (HOD_Name) VALUES ("Jhansi"), ("Jeevitha"), ("Bhavana"), ("Akhila");
Query OK, 4 rows affected (0.13 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql>
mysql> INSERT INTO Employee (Name, DoB, Salary, Department_id) VALUES
-> ("Jhansi", "1980-01-01", 50000, 1),
-> ("Jeevitha", "1985-01-01", 45000, 1),
-> ("Bhavana", "1990-01-01", 40000, 1),
-> ("Anitha", "1995-01-01", 35000, 1),
-> ("Manju", "2000-01-01", 30000, 1),
-> ("rani", "1980-01-01", 50000, 2),
-> ("seetha", "1985-01-01", 45000, 2),
-> ("Ram", "1990-01-01", 40000, 2),
-> ("Raj", "1995-01-01", 35000, 2),
-> ("Deepika", "2000-01-01", 30000, 2),
-> ("Ganga", "1980-01-01", 50000, 3),
-> ("Stella", "1985-01-01", 45000, 3),
-> ("Bujji", "1990-01-01", 40000, 3),
-> ("Keerthi", "1995-01-01", 35000, 3),
-> ("Mounika", "2000-01-01", 30000, 3),
-> ("Nandhini", "1980-01-01", 50000, 4)
```

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MySQL 8.0 Command Line Client
-> FOREIGN KEY (Department_id) REFERENCES Department(Department_id)
-> );
ERROR 1050 (42S01): Table 'employee' already exists
mysql>
mysql> CREATE TABLE Department (
-> Department_id INT NOT NULL AUTO INCREMENT,
-> HOD_Name VARCHAR(255) NOT NULL,
-> PRIMARY KEY (Department_id)
-> );
ERROR 1050 (42S01): Table 'department' already exists
mysql> INSERT INTO Department (HOD_Name) VALUES ("Jhansi"), ("Jeevitha"), ("Bhavana"), ("Akhila");
Query OK, 4 rows affected (0.13 sec)
Records: 4 Duplicates: 0 Warnings: 0

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-> ("Jeevitha", "1985-01-01", 45000, 1),
-> ("Bhavana", "1990-01-01", 40000, 1),
-> ("Anitha", "1995-01-01", 35000, 1),
-> ("Manju", "2000-01-01", 30000, 1),
-> ("rani", "1980-01-01", 50000, 2),
-> ("seetha", "1985-01-01", 45000, 2),
-> ("Ram", "1990-01-01", 40000, 2),
-> ("Raj", "1995-01-01", 35000, 2),
-> ("Deepika", "2000-01-01", 30000, 2),
-> ("Ganga", "1980-01-01", 50000, 3),
-> ("Stella", "1985-01-01", 45000, 3),
-> ("Bujji", "1990-01-01", 40000, 3),
-> ("Keerthi", "1995-01-01", 35000, 3),
-> ("Mounika", "2000-01-01", 30000, 3),
-> ("Nandhini", "1980-01-01", 50000, 4),
-> ("Varun", "1985-01-01", 45000, 4),
-> ("Harish", "1990-01-01", 40000, 4),
-> ("Vamshi", "1995-01-01", 35000, 4),
-> ("Sindhu", "2000-01-01", 30000, 4);
ERROR 1054 (42S22): Unknown column 'Name' in 'field list'
mysql> select *from Department;
+-----+-----+
| Department_id | HOD_Name |
+-----+-----+
| 1 | Jhansi |
| 2 | Jeevitha |
+-----+-----+
```

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-> ("Deepika", "2000-01-01", 30000, 2),
-> ("Ganga", "1980-01-01", 50000, 3),
-> ("Stella", "1985-01-01", 45000, 3),
-> ("Bujji", "1990-01-01", 40000, 3),
-> ("Keerthi", "1995-01-01", 35000, 3),
-> ("Mounika", "2000-01-01", 30000, 3),
-> ("Nandhini", "1980-01-01", 50000, 4),
-> ("Varun", "1985-01-01", 45000, 4),
-> ("Harish", "1990-01-01", 40000, 4),
-> ("Vamshi", "1995-01-01", 35000, 4),
-> ("Sindhu", "2000-01-01", 30000, 4);
ERROR 1054 (42S22): Unknown column 'Name' in 'field list'
mysql> select *from Department;
+-----+-----+
| Department_id | HOD_Name |
+-----+-----+
| 1 | Jhansi |
| 2 | Jeevitha |
| 3 | Bhavana |
| 4 | Akhila |
| 5 | Jhansi |
| 6 | Jeevitha |
| 7 | Bhavana |
| 8 | Akhila |
+-----+-----+
8 rows in set (0.00 sec)

mysql> SELECT *FROM Employee;
+-----+-----+-----+-----+-----+
| Employee_id | Emp_Name | DoB | Salary | Department_id |
+-----+-----+-----+-----+-----+
| 1 | Jhansi | 1980-01-01 | 50000.00 | 1 |
| 2 | Jeevitha | 1985-01-01 | 45000.00 | 1 |
| 3 | Bhavana | 1990-01-01 | 40000.00 | 1 |
| 4 | Anitha | 1995-01-01 | 35000.00 | 1 |
| 5 | Manju | 2000-01-01 | 30000.00 | 1 |
| 6 | rani | 1980-01-01 | 50000.00 | 2 |
| 7 | seetha | 1985-01-01 | 45000.00 | 2 |
| 8 | Ram | 1990-01-01 | 40000.00 | 2 |
| 9 | Raj | 1995-01-01 | 35000.00 | 2 |
| 10 | Deepika | 2000-01-01 | 30000.00 | 2 |
| 11 | Ganga | 1980-01-01 | 50000.00 | 3 |
| 12 | Stella | 1985-01-01 | 45000.00 | 3 |
+-----+-----+-----+-----+-----+
```

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MySQL 8.0 Command Line Client
+-----+
|      8 | Akhila |
+-----+
8 rows in set (0.00 sec)

mysql> SELECT *FROM Employee;
+-----+
| Employee_id | Emp_Name | DoB       | Salary | Department_id |
+-----+
| 1 | Jhansi | 1980-01-01 | 50000.00 | 1 |
| 2 | Jeevitha | 1985-01-01 | 45000.00 | 1 |
| 3 | Bhavana | 1990-01-01 | 40000.00 | 1 |
| 4 | Anitha | 1995-01-01 | 35000.00 | 1 |
| 5 | Manju | 2000-01-01 | 30000.00 | 1 |
| 6 | rani | 1980-01-01 | 50000.00 | 2 |
| 7 | seetha | 1985-01-01 | 45000.00 | 2 |
| 8 | Ram | 1990-01-01 | 40000.00 | 2 |
| 9 | Raj | 1995-01-01 | 35000.00 | 2 |
| 10 | Deepika | 2000-01-01 | 30000.00 | 2 |
| 11 | Ganga | 1980-01-01 | 50000.00 | 3 |
| 12 | Stella | 1985-01-01 | 45000.00 | 3 |
| 13 | Bujji | 1990-01-01 | 40000.00 | 3 |
| 14 | Keerthi | 1995-01-01 | 35000.00 | 3 |
| 15 | Mounika | 2000-01-01 | 30000.00 | 3 |
| 16 | Nandhini | 1980-01-01 | 50000.00 | 4 |
| 17 | Varun | 1985-01-01 | 45000.00 | 4 |
| 18 | Harish | 1990-01-01 | 40000.00 | 4 |
| 19 | Vamshi | 1995-01-01 | 35000.00 | 4 |
| 20 | Sindhu | 2000-01-01 | 30000.00 | 4 |
+-----+
20 rows in set (0.01 sec)

mysql>
mysql> /*.2: To get the average salary of employees grouped by their department,
/*> you can use the following SQL query:*/
mysql>
mysql> SELECT d.Department_id, d.HOD_Name, AVG(e.Salary) AS Average_Salary
-> FROM Department d
-> JOIN Employee e ON d.Department_id = e.Department_id
-> GROUP BY d.Department_id, d.HOD_Name;
+-----+
| Department_id | HOD_Name | Average_Salary |
+-----+
| 1 | Jhansi | 40000.000000 |
+-----+
```

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+-----+
| 1 | Jhansi | 1980-01-01 | 50000.00 | 1 |
| 2 | Jeevitha | 1985-01-01 | 45000.00 | 1 |
| 3 | Bhavana | 1990-01-01 | 40000.00 | 1 |
| 4 | Anitha | 1995-01-01 | 35000.00 | 1 |
| 5 | Manju | 2000-01-01 | 30000.00 | 1 |
| 6 | rani | 1980-01-01 | 50000.00 | 2 |
| 7 | seetha | 1985-01-01 | 45000.00 | 2 |
| 8 | Ram | 1990-01-01 | 40000.00 | 2 |
| 9 | Raj | 1995-01-01 | 35000.00 | 2 |
| 10 | Deepika | 2000-01-01 | 30000.00 | 2 |
| 11 | Ganga | 1980-01-01 | 50000.00 | 3 |
| 12 | Stella | 1985-01-01 | 45000.00 | 3 |
| 13 | Bujji | 1990-01-01 | 40000.00 | 3 |
| 14 | Keerthi | 1995-01-01 | 35000.00 | 3 |
| 15 | Mounika | 2000-01-01 | 30000.00 | 3 |
| 16 | Nandhini | 1980-01-01 | 50000.00 | 4 |
| 17 | Varun | 1985-01-01 | 45000.00 | 4 |
| 18 | Harish | 1990-01-01 | 40000.00 | 4 |
| 19 | Vamshi | 1995-01-01 | 35000.00 | 4 |
| 20 | Sindhu | 2000-01-01 | 30000.00 | 4 |
+-----+
20 rows in set (0.01 sec)

mysql>
mysql> /*.2: To get the average salary of employees grouped by their department,
/*> you can use the following SQL query:*/
mysql>
mysql> SELECT d.Department_id, d.HOD_Name, AVG(e.Salary) AS Average_Salary
-> FROM Department d
-> JOIN Employee e ON d.Department_id = e.Department_id
-> GROUP BY d.Department_id, d.HOD_Name;
+-----+
| Department_id | HOD_Name | Average_Salary |
+-----+
| 1 | Jhansi | 40000.000000 |
| 2 | Jeevitha | 40000.000000 |
| 3 | Bhavana | 40000.000000 |
| 4 | Akhila | 40000.000000 |
+-----+
4 rows in set (0.03 sec)

mysql>
mysql> /*3: To get the list of HODs whose salary is greater than
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+-----+-----+-----+
| 3 | Bhavana | 40000.000000 |
| 4 | Akhila | 40000.000000 |
+-----+-----+-----+
4 rows in set (0.03 sec)

mysql>
mysql> /*3: To get the list of HODs whose salary is greater than
/*> the average salary of all HODs, you can use the following SQL query:*/
mysql> SELECT e.*FROM Employee e
-> JOIN Department d ON e.Employee_id = d.HOD_Name
-> GROUP BY e.Employee_id
-> HAVING e.Salary > (SELECT AVG(e2.Salary) FROM Employee e2 JOIN Department d2 ON e2.Employee_id = d2.HOD_Name);
Empty set (0.04 sec)

mysql> -- not run
mysql> /*To get the names of the youngest and oldest
/*> HODs along with their age, you can use the following SQL query:*/
mysql> SELECT d.Department_id, d.HOD_Name, AVG(e.Salary) AS Average_Salary
-> FROM Department d
-> JOIN Employee e ON d.Department_id = e.Department_id AND e.Employee_id != d.HOD_Name
-> GROUP BY d.Department_id, d.HOD_Name
-> HAVING (SELECT e2.Salary FROM Employee e2 WHERE e2.Employee_id = d.HOD_Name) >= 2 * AVG(e.Salary);
Empty set, 20 warnings (0.01 sec)

mysql> -- not run
mysql>
mysql> SELECT d.Department_id, d.HOD_Name,
-> (CASE WHEN d.Department_id = 1 THEN 'Sales'
-> WHEN d.Department_id = 2 THEN 'HR'
-> WHEN d.Department_id = 3 THEN 'Marketing'
-> ELSE 'Other' END) AS Department_Name,
-> AVG(e.Salary) AS Average_Salary
-> FROM Department d
-> JOIN Employee e ON d.Department_id
-> =
```