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C:\Users\Akhil>mysql -u root -p

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 16

Server version: 8.0.41 MySQL Community Server - GPL

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

mysql> use persons;

Database changed

mysql> INSERT INTO Persons (PersonID, LastName, FirstName, Address, City) VALUES (1, 'Smith', 'John', '123 Apple St', 'New York'), (2, 'Doe', 'Jane', '456 Orange Ave', 'Los Angeles'), (3, 'Brown', 'Mike', '789 Banana Blvd', 'New York'), (4, 'Johnson', 'Emily', '321 Peach Dr', 'Chicago'), (5, 'Davis', 'Chris', '654 Grape Ln', 'Los Angeles'), (6, 'Miller', 'Anna', '987 Lime Rd', 'New York');

Query OK, 6 rows affected (0.22 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Persons;

PersonID	LastName	FirstName	Address	City
1	Smith	John	123 Apple St	New York
2	Doe	Jane	456 Orange Ave	Los Angeles
3	Brown	Mike	789 Banana Blvd	New York
4	Johnson	Emily	321 Peach Dr	Chicago
5	Davis	Chris	654 Grape Ln	Los Angeles
6	Miller	Anna	987 Lime Rd	New York

6 rows in set (0.04 sec)

mysql> SELECT FirstName, LastName, City FROM Persons WHERE City = 'New York' ORDER BY LastName;

FirstName	LastName	City
Mike	Brown	New York
Anna	Miller	New York
John	Smith	New York

3 rows in set (0.09 sec)

mysql> SELECT City, COUNT(*) AS total_people FROM Persons GROUP BY City;

City	total_people
New York	3

```
mysql> SELECT City, COUNT(*) AS num_people FROM Persons GROUP BY City;
+-----+-----+
| City      | num_people |
+-----+-----+
| New York  | 3          |
| Los Angeles | 2          |
| Chicago   | 1          |
+-----+-----+
3 rows in set (0.06 sec)
```

```
mysql> CREATE TABLE Orders ( OrderID int, PersonID int, OrderDate date);
Query OK, 0 rows affected (0.34 sec)
```

```
mysql> INSERT INTO Orders (OrderID, PersonID, OrderDate) VALUES (101, 1, '2025-01-10'), (102, 3, '2025-01-15'), (103, 5, '2025-02-01');
Query OK, 3 rows affected (0.18 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT p.FirstName, p.LastName, o.OrderDate FROM Persons p INNER JOIN Orders o ON p.PersonID = o.PersonID;
+-----+-----+-----+
| FirstName | LastName | OrderDate |
+-----+-----+-----+
| John      | Smith   | 2025-01-10 |
| Mike      | Brown   | 2025-01-15 |
| Chris     | Davis   | 2025-02-01 |
+-----+-----+-----+
3 rows in set (0.20 sec)
```

```
mysql> SELECT p.FirstName, p.LastName, o.OrderDate FROM Persons p LEFT JOIN Orders o ON p.PersonID = o.PersonID;
+-----+-----+-----+
| FirstName | LastName | OrderDate |
+-----+-----+-----+
| John      | Smith   | 2025-01-10 |
| Jane      | Doe      | NULL       |
| Mike      | Brown   | 2025-01-15 |
| Emily     | Johnson  | NULL       |
| Chris     | Davis   | 2025-02-01 |
| Anna      | Miller   | NULL       |
+-----+-----+-----+
6 rows in set (0.03 sec)
```

```
mysql> SELECT p.FirstName, p.LastName, o.OrderDate FROM Persons p RIGHT JOIN Orders o ON p.PersonID = o.PersonID;
+-----+-----+-----+
| FirstName | LastName | OrderDate |
+-----+-----+-----+
| John      | Smith   | 2025-01-10 |
| Mike      | Brown   | 2025-01-15 |
| Chris     | Davis   | 2025-02-01 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT City, COUNT(*) AS num_people FROM Persons GROUP BY City;
+-----+-----+
| City      | num_people |
+-----+-----+
| New York  | 3          |
| Los Angeles | 2          |
+-----+-----+
```

```

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+-----+
| Los Angeles | 2 |
| Chicago     | 1 |
+-----+
3 rows in set (0.00 sec)

mysql> select num_people, sum(*) From Persons GROUP BY num_people;
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 '*) From Persons GROUP BY num_people' at line 1
mysql> ALTER TABLE Persons ADD Age INT;
Query OK, 0 rows affected (0.32 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> UPDATE Persons SET Age = 30 WHERE PersonID = 1;
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Persons SET Age = 40 WHERE PersonID = 2;
Query OK, 1 row affected (0.09 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Persons SET Age = 27 WHERE PersonID = 3;
Query OK, 1 row affected (0.08 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Persons SET Age = 29 WHERE PersonID = 4;
Query OK, 1 row affected (0.53 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Persons SET Age = 34 WHERE PersonID = 5;
Query OK, 1 row affected (0.14 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Persons SET Age = 56 WHERE PersonID = 6;
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT SUM(Age) AS Total_Age FROM Persons;
+-----+
| Total_Age |
+-----+
|        216 |
+-----+
1 row in set (0.06 sec)

mysql> CREATE VIEW LA_Residents AS SELECT PersonID, FirstName, LastName FROM Persons WHERE City = 'Los Angeles';
Query OK, 0 rows affected (0.10 sec)

mysql> SELECT * FROM LA_Residents;
+-----+-----+-----+
| PersonID | FirstName | LastName |
+-----+-----+-----+
|        2 | Jane     | Doe     |
+-----+-----+-----+

```