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1. Setting up the tables and inserting data

```
mysql> USE StudentDB;
Database changed
mysql> CREATE TABLE Student(
  → studentID INT AUTO_INCREMENT PRIMARY KEY,
  → first_name VARCHAR(50) NOT NULL,
  → last_name VARCHAR(50) NOT NULL,
  → age INT,
  → grade CHAR(1)
  → );
Query OK, 0 rows affected (0.05 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_StudentDB |
+-----+
| Student              |
| Student_              |
+-----+
2 rows in set (0.00 sec)

mysql> SHOW COLUMNS FROM Student;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| studentID  | int       | NO   | PRI | NULL    | auto_increment |
| first_name | varchar(50) | NO   |     | NULL    |               |
| last_name  | varchar(50) | NO   |     | NULL    |               |
| age        | int       | YES  |     | NULL    |               |
| grade      | char(1)    | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> INSERT INTO Student (first_name, last_name, age, grade)
  → VALUES ('John', 'Doe', 20, 'A'),
  → ('Alice', 'Smith', 22, 'B'),
  → ('Bob', 'Johnson', 26, 'C'),
  → ('Emma', 'Williams', 23, 'A'),
  → ('Michael', 'Davis', 19, 'B'),
  → ('Sophie', 'Brown', 27, 'C'),
  → ('Ryan', 'Taylor', 22, 'A'),
  → ('Olivia', 'Miller', 30, 'B'),
  → ('Daniel', 'Jones', 24, 'C'),
  → ('Grace', 'White', 18, 'A');
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

Kindly find the code in the link to the GitHub repository attached here:

<https://github.com/Karume-lab/plp-Database/blob/main/11-queries.sql>

2. Performing the queries

```
mysql> SELECT CONCAT(first_name, " ", last_name) AS names, age
      → FROM Student
      → WHERE age > 25
      → ORDER BY age ASC;
+-----+-----+
| names | age |
+-----+-----+
| Bob Johnson | 26 |
| Sophie Brown | 27 |
| Olivia Miller | 30 |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql>
mysql> SELECT CONCAT(first_name, " ", last_name) AS names, grade
      → FROM Student
      → WHERE grade = 'A' OR grade = 'B'
      → ORDER BY grade ASC;
+-----+-----+
| names | grade |
+-----+-----+
| John Doe | A |
| Emma Williams | A |
| Ryan Taylor | A |
| Grace White | A |
| Alice Smith | B |
| Michael Davis | B |
| Olivia Miller | B |
+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> SELECT age
      → FROM Student
      → WHERE age > 25
      → ORDER BY age;
+-----+
| age |
+-----+
| 26 |
| 27 |
| 30 |
+-----+
3 rows in set (0.00 sec)
```

Kindly find the code in the link to the GitHub repository attached here:

<https://github.com/Karume-lab/plp-Database/blob/main/11-queries.sql>