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1. <u>Setting up the tables and inserting data</u>

```
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

mysql> 
```

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. <u>Performing the queries</u>

```
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