Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

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Domain: AI/ML
Assignment

Aim of the Assignment

The aim of this assignment is to create two tables in MySQL and perform conditional operations using **WHERE** clause with **AND, OR, NOT**, along with **ORDER BY** and **LIKE** operators.

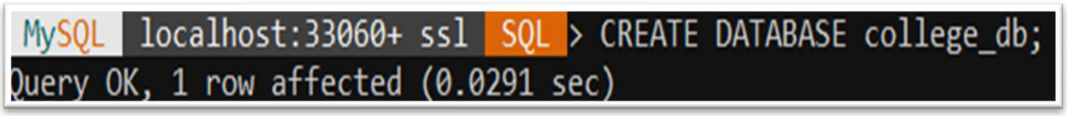
Database Creation

Command:

CREATE DATABASE college_db;

```
CREATE DATABASE college_db;
```

Output:



```
MySQL  localhost:33060+ ssl  SQL > CREATE DATABASE college_db;
Query OK, 1 row affected (0.0291 sec)
```

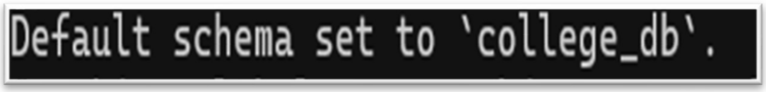
Use Database Command

Command:

USE college_db;

```
USE college_db;
```

Output:



```
Default schema set to `college_db`.
```

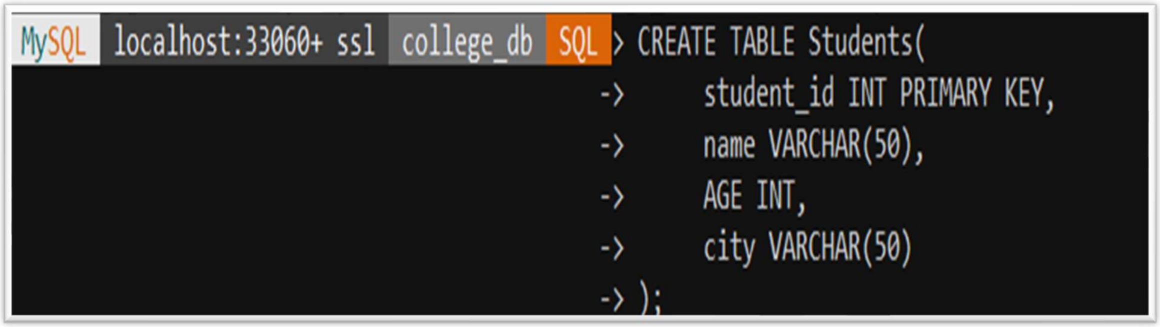
Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

Table Creation

Table 1: Students

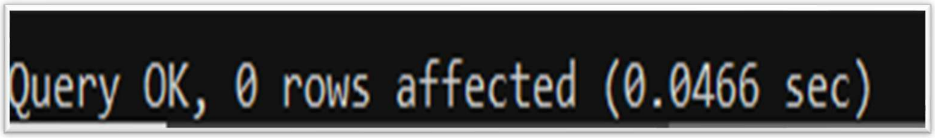
Command:

```
CREATE TABLE Students(
                student_id INT PRIMARY KEY,
                name VARCHAR(50),
                 AGE INT,
                  city VARCHAR(50)
          );
```



```
MySQL  localhost:33060+ ssl  college_db  SQL > CREATE TABLE Students(
                                            ->     student_id INT PRIMARY KEY,
                                            ->     name VARCHAR(50),
                                            ->     AGE INT,
                                            ->     city VARCHAR(50)
                                            -> );
```

Output:



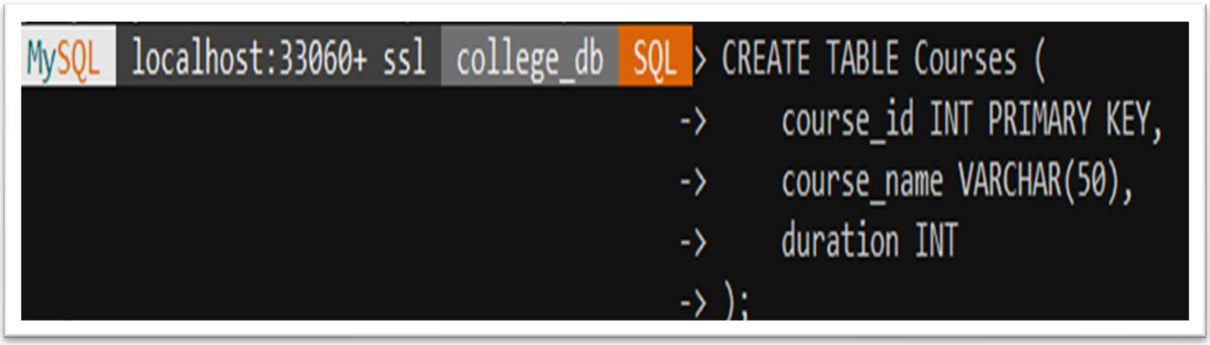
```
Query OK, 0 rows affected (0.0466 sec)
```

Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

Table 2: Courses

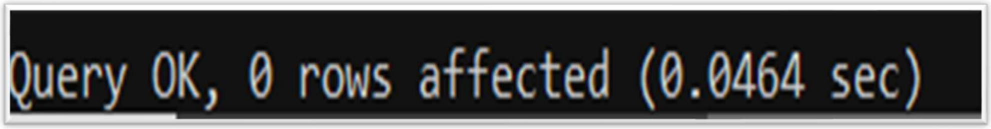
Command:

```
CREATE TABLE Courses(

        course_id INT PRIMARY KEY,

        course_name VARCHAR(50),

        duration INT

);
```



```
MySQL  localhost:33060+ ssl  college_db  SQL > CREATE TABLE Courses (
                                             ->     course_id INT PRIMARY KEY,
                                             ->     course_name VARCHAR(50),
                                             ->     duration INT
                                             -> );
```

Output:



```
Query OK, 0 rows affected (0.0464 sec)
```

Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

Inserting Data into Students Tables

Command:

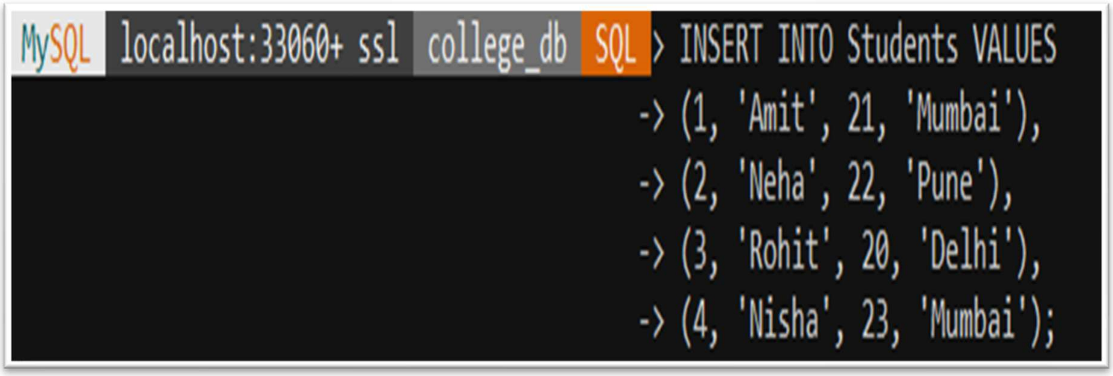
INSERT INTO Students VALUES

(1, 'Amit', 21, 'Mumbai'),

(2, 'Neha', 22, 'Pune'),

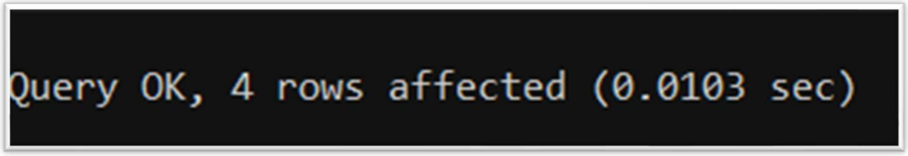
(3, 'Rohit', 20, 'Delhi'),

(4, 'Nisha', 23, 'Mumbai');



```
MySQL  localhost:33060+ ssl  college_db  SQL > INSERT INTO Students VALUES
                                             -> (1, 'Amit', 21, 'Mumbai'),
                                             -> (2, 'Neha', 22, 'Pune'),
                                             -> (3, 'Rohit', 20, 'Delhi'),
                                             -> (4, 'Nisha', 23, 'Mumbai');
```

Output:



```
Query OK, 4 rows affected (0.0103 sec)
```

Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

Insert Data into Courses Table

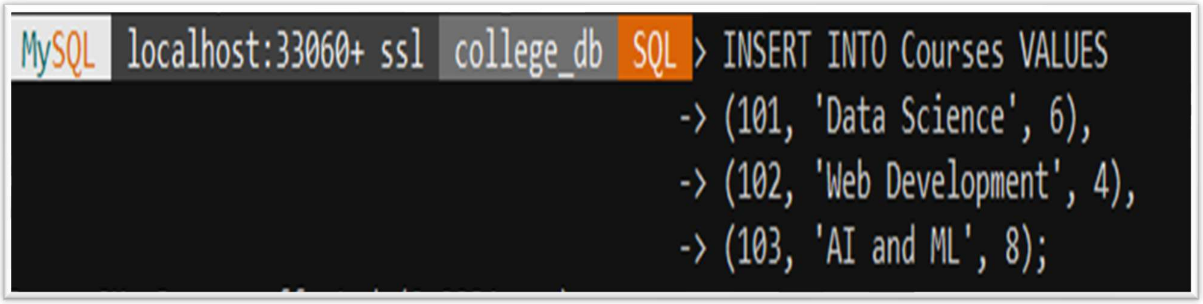
Command:

INSERT INTO Courses VALUES

(101, 'Data Science', 6),

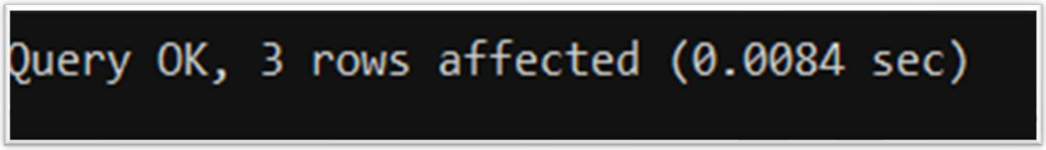
(102, 'Web Development', 4),

(103, 'AI and ML', 8);



```
MySQL  localhost:33060+ ssl  college_db  SQL > INSERT INTO Courses VALUES
                                             -> (101, 'Data Science', 6),
                                             -> (102, 'Web Development', 4),
                                             -> (103, 'AI and ML', 8);
```

Output:



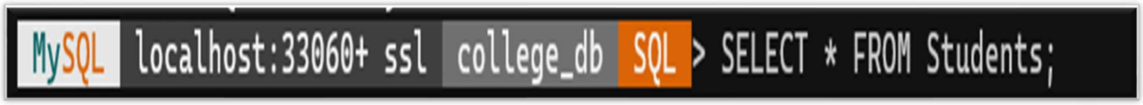
```
Query OK, 3 rows affected (0.0084 sec)
```

Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

Display Students Table

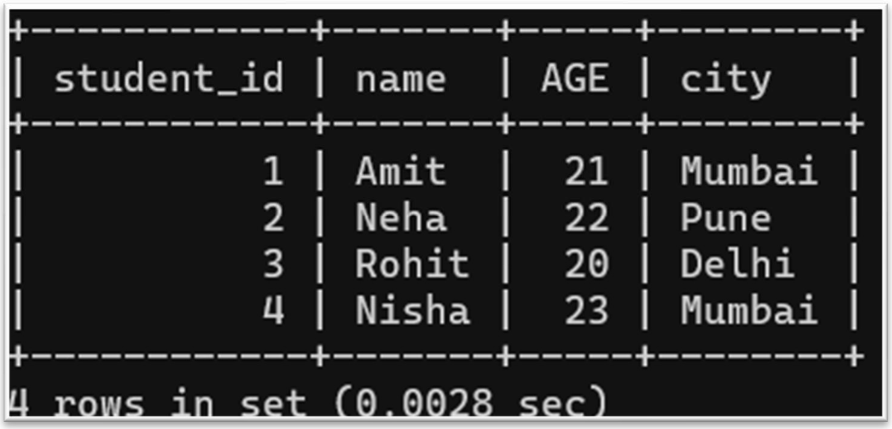
Command:

SELECT * FROM Students;



```
MySQL  localhost:33060+ ssl  college_db  SQL > SELECT * FROM Students;
```

Output:



```
+------------+-------+-----+--------+
| student_id | name  | AGE | city   |
+------------+-------+-----+--------+
|          1 | Amit  |  21 | Mumbai |
|          2 | Neha  |  22 | Pune   |
|          3 | Rohit |  20 | Delhi  |
|          4 | Nisha |  23 | Mumbai |
+------------+-------+-----+--------+
4 rows in set (0.0028 sec)
```

Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

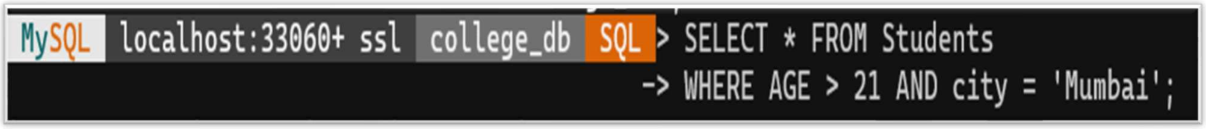
SQL Operations

WHERE Clause using AND

Command:

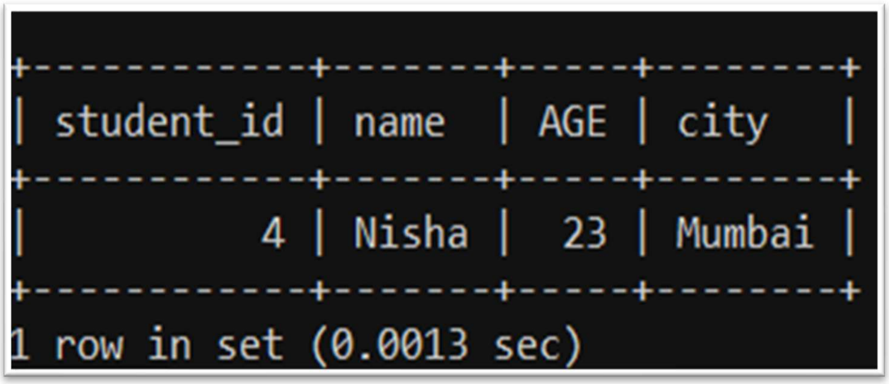
SELECT * FROM Students

WHERE AGE > 21 AND city = 'Mumbai';



```
MySQL  localhost:33060+ ssl  college_db  SQL > SELECT * FROM Students
                                           -> WHERE AGE > 21 AND city = 'Mumbai';
```

Output:



```
+------------+-------+-----+--------+
| student_id | name  | AGE | city   |
+------------+-------+-----+--------+
|          4 | Nisha |  23 | Mumbai |
+------------+-------+-----+--------+
1 row in set (0.0013 sec)
```

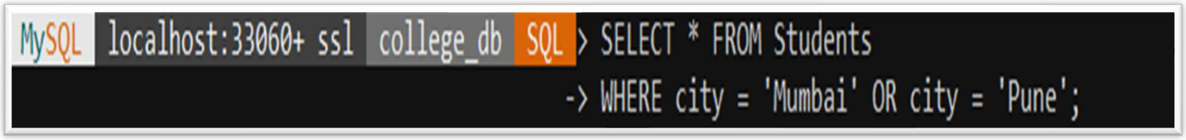
Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

WHERE Clause using OR

Command:

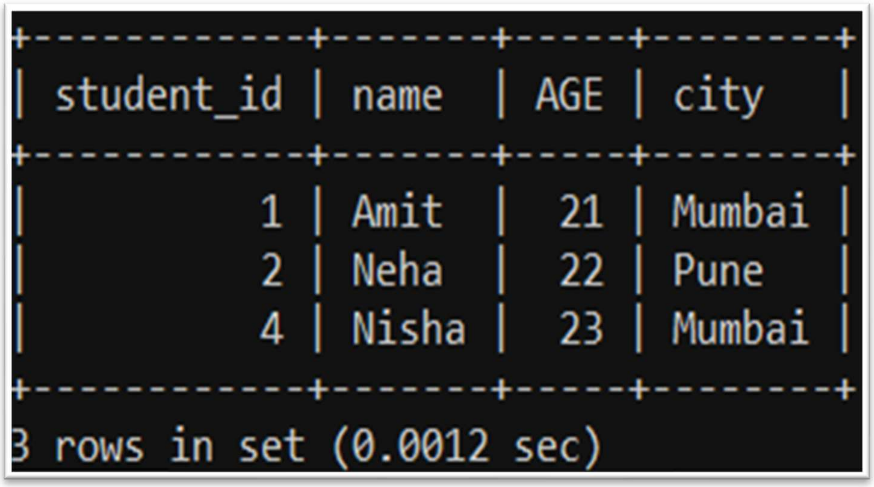
SELECT * FROM Students

WHERE city = 'Mumbai' OR city = 'Pune';



```
MySQL  localhost:33060+ ssl  college_db  SQL > SELECT * FROM Students
                                             -> WHERE city = 'Mumbai' OR city = 'Pune';
```

Output:



```
+------------+-------+-----+--------+
| student_id | name  | AGE | city   |
+------------+-------+-----+--------+
|          1 | Amit  |  21 | Mumbai |
|          2 | Neha  |  22 | Pune   |
|          4 | Nisha |  23 | Mumbai |
+------------+-------+-----+--------+
3 rows in set (0.0012 sec)
```

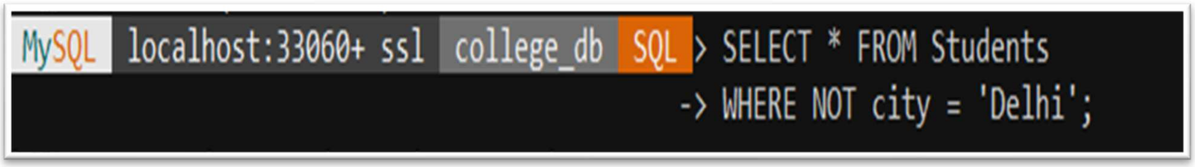
Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

WHERE Clause using NOT

Command:

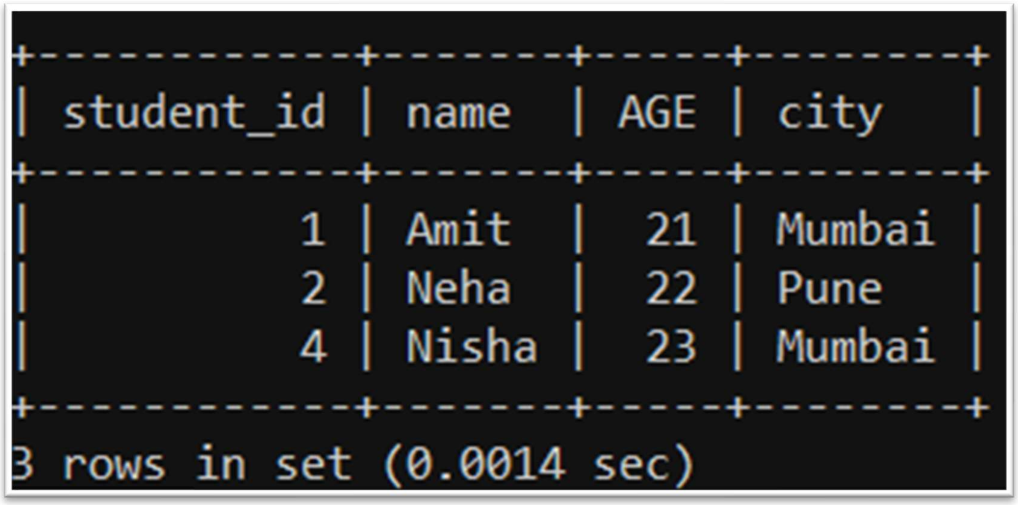
SELECT * FROM Students

WHERE NOT city = 'Delhi';



```
MySQL  localhost:33060+ ssl  college_db  SQL > SELECT * FROM Students
                                             -> WHERE NOT city = 'Delhi';
```

Output:



```
+------------+-------+-----+--------+
| student_id | name  | AGE | city   |
+------------+-------+-----+--------+
|          1 | Amit  |  21 | Mumbai |
|          2 | Neha  |  22 | Pune   |
|          4 | Nisha |  23 | Mumbai |
+------------+-------+-----+--------+
3 rows in set (0.0014 sec)
```

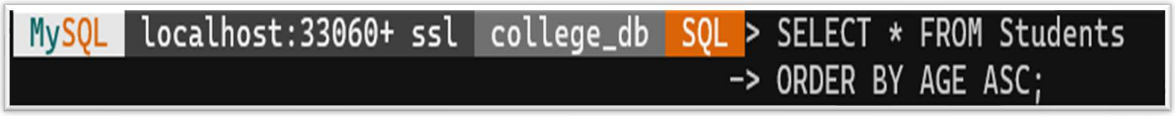
Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

ORDER BY Clause

Command:

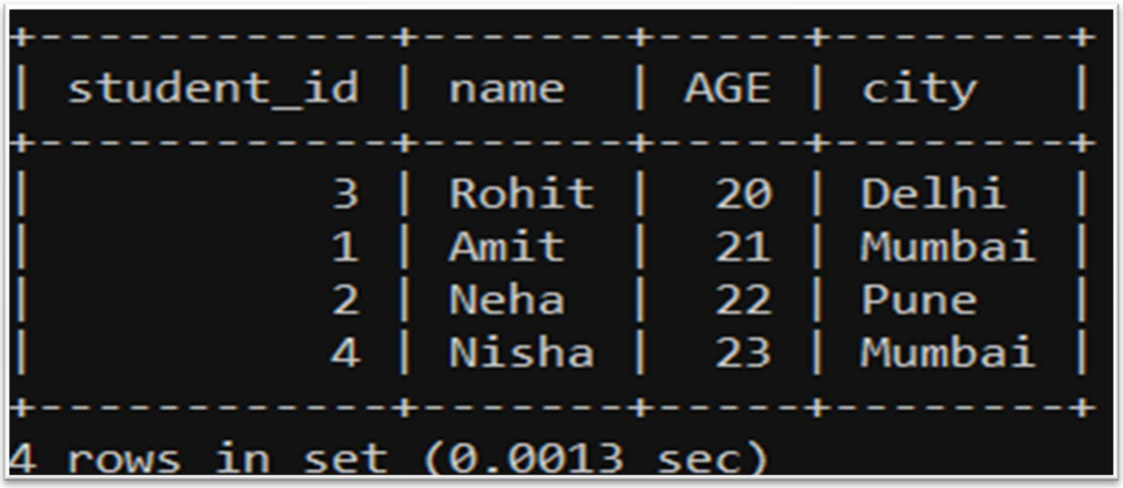
SELECT * FROM Students

ORDER BY AGE ASC;



```
MySQL  localhost:33060+ ssl  college_db  SQL > SELECT * FROM Students
                                            -> ORDER BY AGE ASC;
```

Output:



```
+------------+-------+-----+--------+
| student_id | name  | AGE | city   |
+------------+-------+-----+--------+
|          3 | Rohit |  20 | Delhi  |
|          1 | Amit  |  21 | Mumbai |
|          2 | Neha  |  22 | Pune   |
|          4 | Nisha |  23 | Mumbai |
+------------+-------+-----+--------+
4 rows in set (0.0013 sec)
```

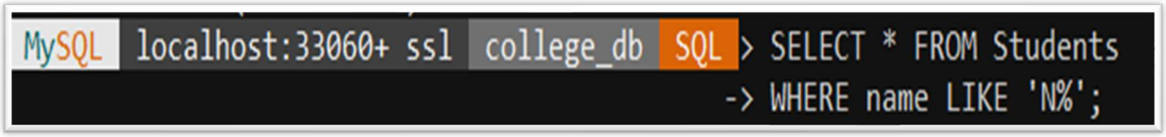
Assignment 2 (Creation of Tables and Implementation of WHERE, ORDER BY and LIKE Clauses using MySQL)

LIKE Operator

Command:

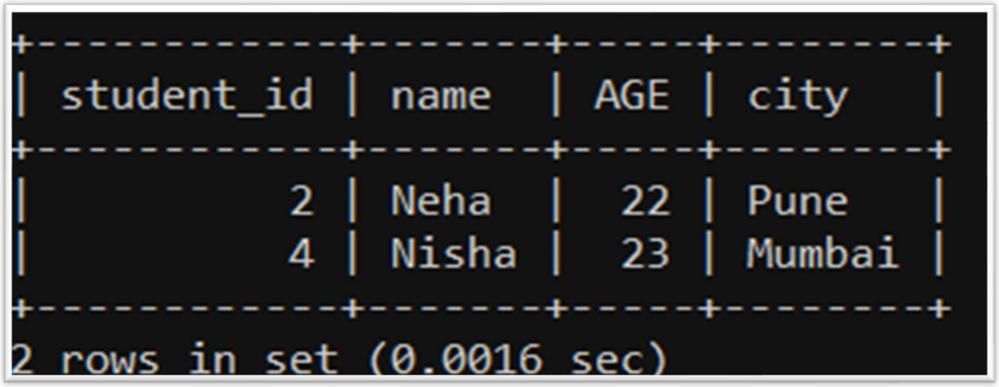
SELECT * FROM Students

WHERE name LIKE 'N%';



```
MySQL  localhost:33060+ ssl  college_db  SQL > SELECT * FROM Students
                                             -> WHERE name LIKE 'N%';
```

Output:



```
+------------+-------+-----+--------+
| student_id | name  | AGE | city   |
+------------+-------+-----+--------+
|          2 | Neha  |  22 | Pune   |
|          4 | Nisha |  23 | Mumbai |
+------------+-------+-----+--------+
2 rows in set (0.0016 sec)
```

Conclusion

Thus, the MySQL database was successfully created and various conditional operations such as **WHERE, AND, OR, NOT, ORDER BY**, and **LIKE** were executed successfully using SQL queries.