Project	Database Practice Using SQL
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# • Create Database:



# • Create TABLE:

Two tables were created to perform a join operation.

- StudentInfo
- UniversityInfo

```
Run SQL query/queries on database studentinfo: 

CREATE TABLE StudentInfo (

StudentID int,

StudentName varchar(255),

City varchar(255),

PostalCode varchar(255),

INCOME varchar(255)

N;
```

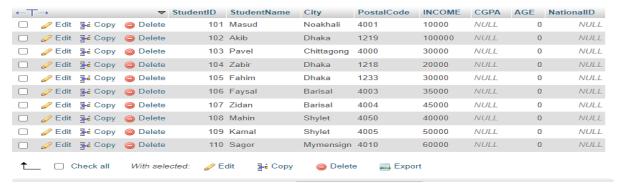
```
1 CREATE TABLE UniversityInfo (
2
3    StudentID int,
4    StudentName varchar(255),
5    VarsityName varchar(255)
6 );
```

# • INSERT VALUE in Table:

```
INSERT INTO studentinfo (StudentID, StudentName, City, PostalCode, INCOME)
VALUES (101, 'Masud', 'Noakhali', '4001', '10000'),
(102, 'Akib', 'Dhaka', '1219', '100000'),
(103, 'Pavel', 'Chittagong', '4000', '30000'),
(104, 'Zabir', 'Dhaka', '1218', '20000'),
(105, 'Fahim', 'Dhaka', '1233', '30000'),
(106, 'Faysal', 'Barisal', '4003', '35000'),
(107, 'Zidan', 'Barisal', '4004', '45000'),
(108, 'Mahin', 'Shylet', '4050', '40000'),
(109, 'Kamal', 'Shylet', '4005', '50000'),
(110, 'Sagor', 'Mymensign', '4010', '60000');
```

# • ALTER TABLE:

Three new columns were added to the existing table using the ALTER TABLE statement.



New values were inserted into the three newly added columns after their creation.

```
UPDATE studentinfo

SET CGPA='3.50' , AGE=25, NationalID=5001

WHERE StudentID = 101;

UPDATE studentinfo

SET CGPA='3.90' , AGE=25, NationalID=5002

WHERE StudentID = 102;

UPDATE studentinfo

SET CGPA='3.60' , AGE=30, NationalID=5003

WHERE StudentID = 103;

UPDATE studentInfo

SET CGPA='3.20' , AGE=40, NationalID=5004

WHERE StudentID = 104;

UPDATE studentInfo

SET CGPA='3.10' , AGE=35, NationalID=5005

WHERE StudentID = 105;
```

# **QUERYING DATA FROM SINGLE TABLE**

#### SELECT statement is used to select data from a database

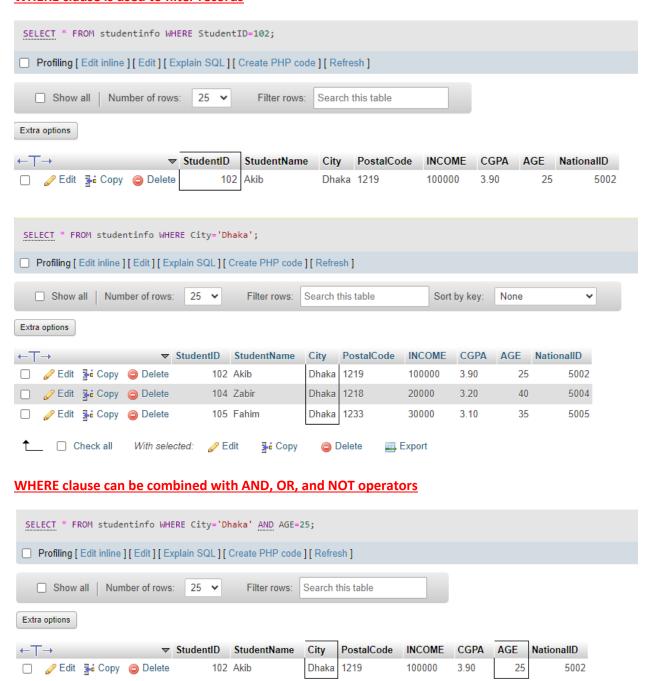


# **SELECT DISTINCT statement is used to return only distinct (different) values**



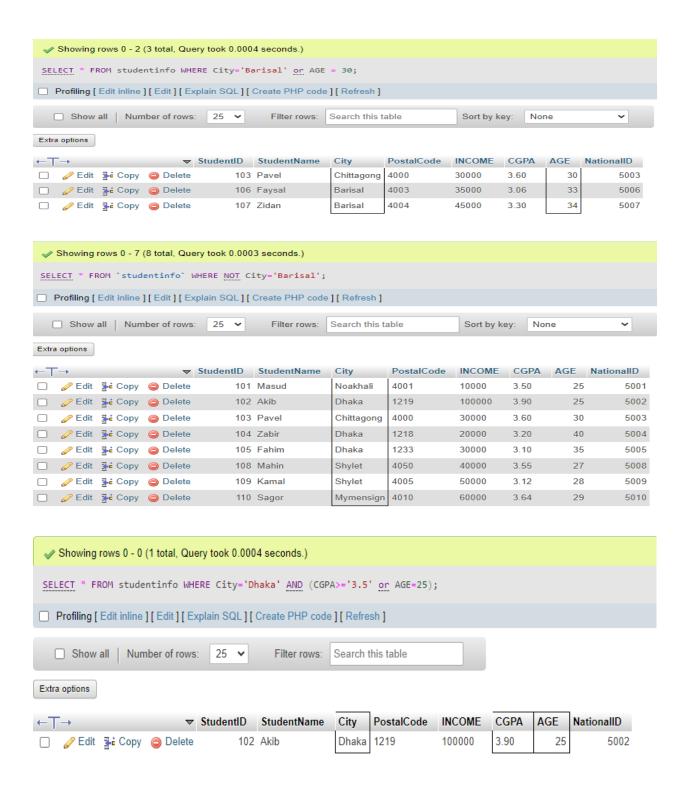
## WHERE clause is used to filter records

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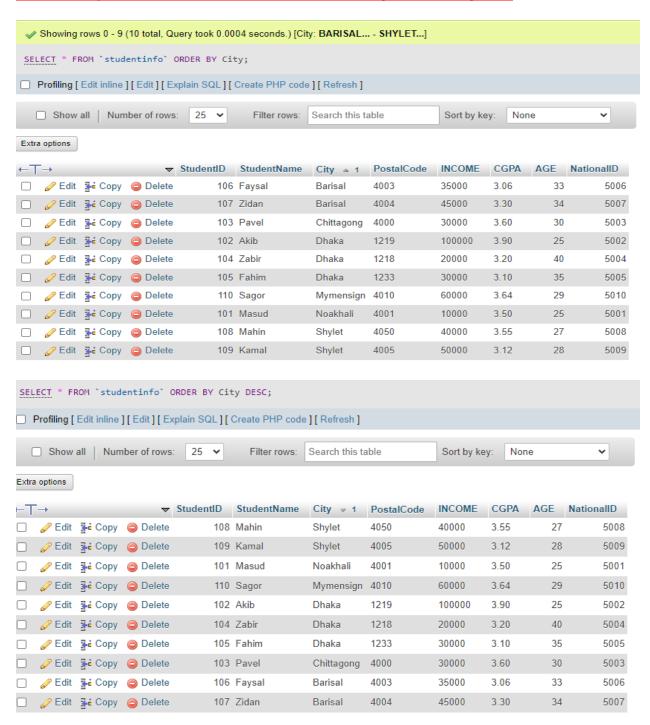


Delete

Export

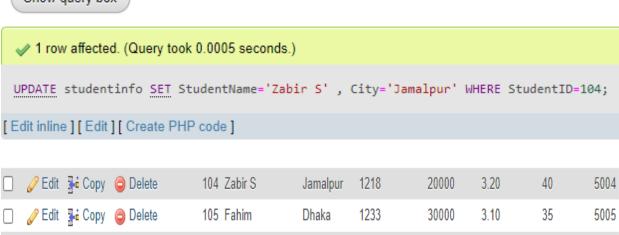


## ORDER BY keyword is used to sort the result-set in ascending or descending order

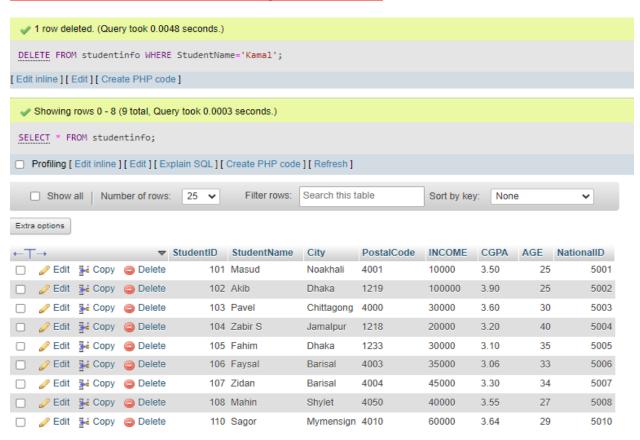


#### UPDATE statement is used to modify the existing records in a table

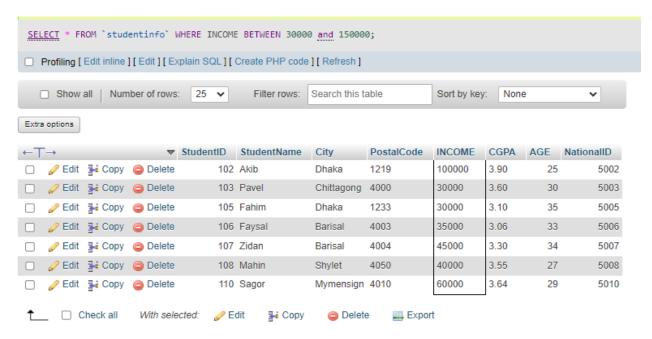
Show query box



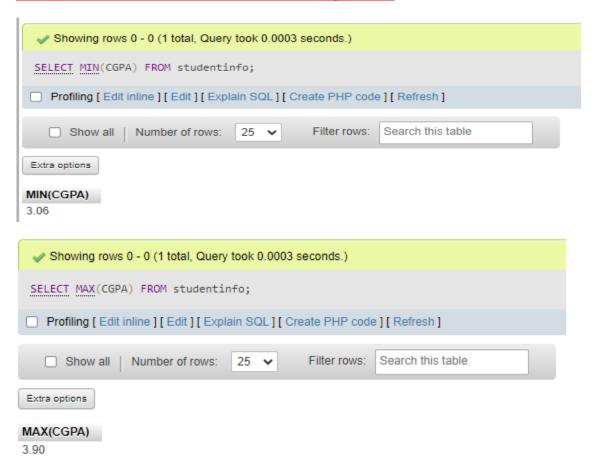
### **DELETE** statement is used to delete existing records in a table



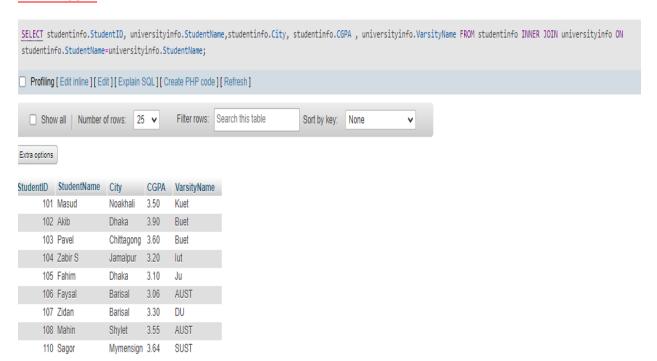
## **BETWEEN operator selects values within a given range**



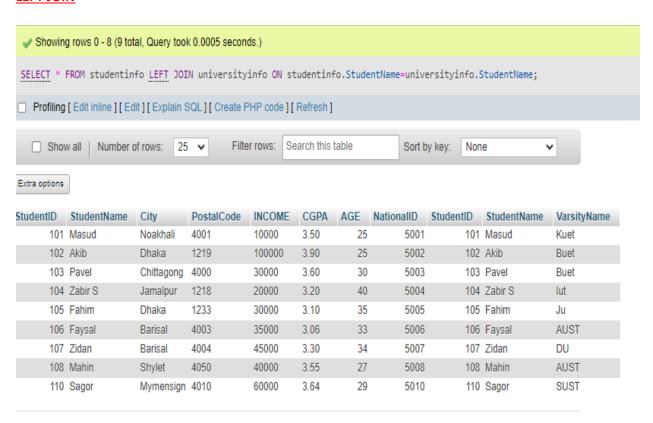
# MIN() and MAX() function returns the smallest & largest value



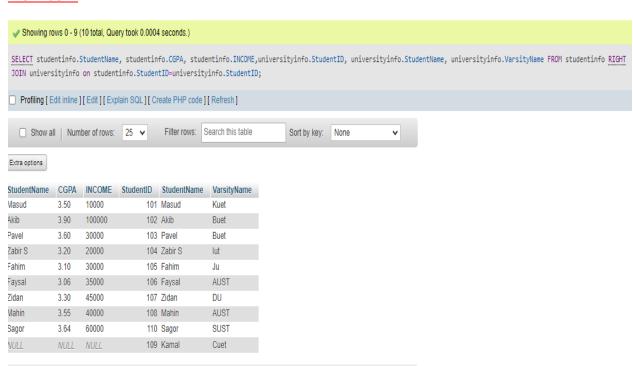
#### **INNRER JOIN**



## **LEFT JOIN**



#### **RIGHT JOIN**



## **FULL OUTER JOIN**

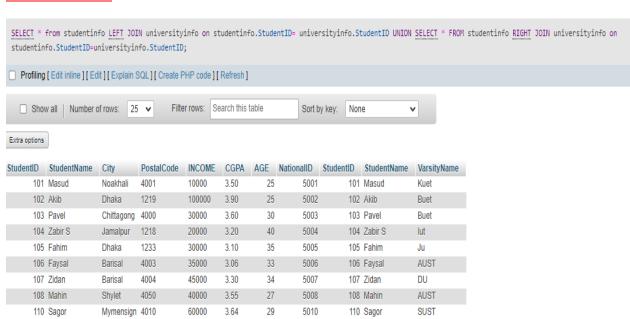
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NULL

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109 Kamal

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## **Cross Join:**

