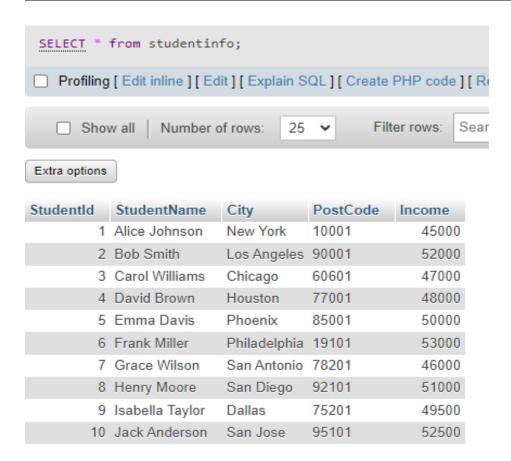
QUERYING DATA FROM SINGLE TABLE

Create Table:

```
1 INSERT INTO studentsinfo (StudentId, StudentName, City, PostCode, Income)
2 VALUES (1, 'Alice Johnson', 'New York', '10001', 45000),
3 (2, 'Bob Smith', 'Los Angeles', '90001', 52000),
4 (3, 'Carol Williams', 'Chicago', '60601', 47000),
5 (4, 'David Brown', 'Houston', '77001', 48000),
6 (5, 'Emma Davis', 'Phoenix', '85001', 50000),
7 (6, 'Frank Miller', 'Philadelphia', '19101', 53000),
8 (7, 'Grace Wilson', 'San Antonio', '78201', 46000),
9 (8, 'Henry Moore', 'San Diego', '92101', 51000),
10 (9, 'Isabella Taylor', 'Dallas', '75201', 49500),
11 (10, 'Jack Anderson', 'San Jose', '95101', 52500);
```

Studentld	StudentName	City	PostCode	Income
1	Alice Johnson	New York	10001	45000
1	Alice Johnson	New York	10001	45000
2	Bob Smith	Los Angeles	90001	52000
3	Carol Williams	Chicago	60601	47000
4	David Brown	Houston	77001	48000
5	Emma Davis	Phoenix	85001	50000
6	Frank Miller	Philadelphia	19101	53000
7	Grace Wilson	San Antonio	78201	46000
8	Henry Moore	San Diego	92101	51000
9	Isabella Taylor	Dallas	75201	49500
10	Jack Anderson	San Jose	95101	52500

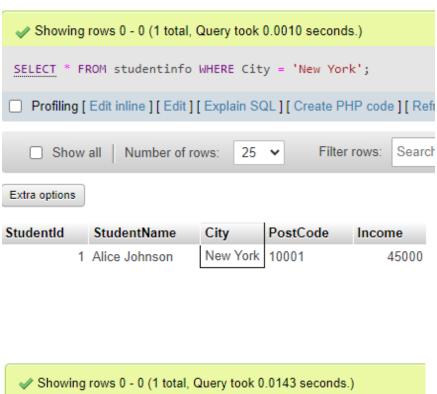
SELECT statement is used to select data from a database:

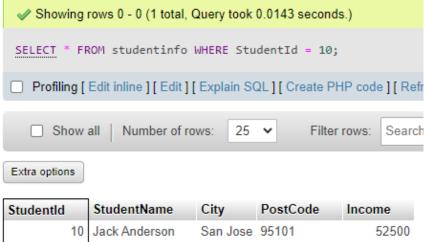


SELECT DISTINCT statement is used to return only distinct (different) values:

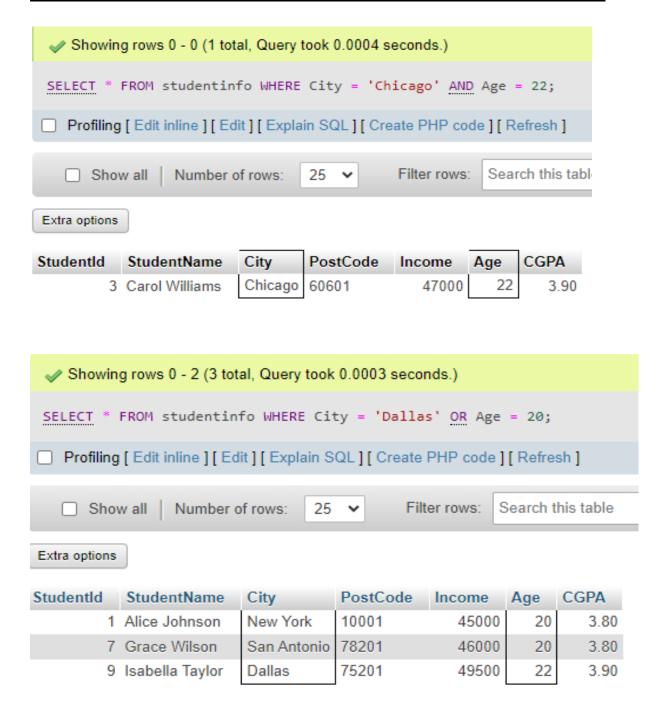


WHERE clause is used to filter records:

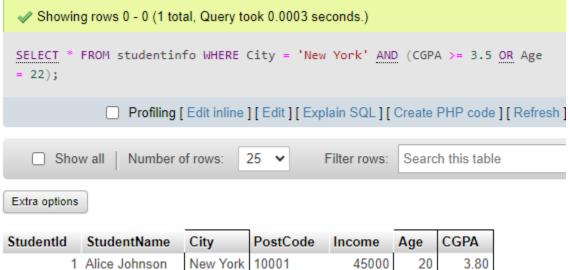




WHERE clause can be combined with AND, OR, and NOT operators:

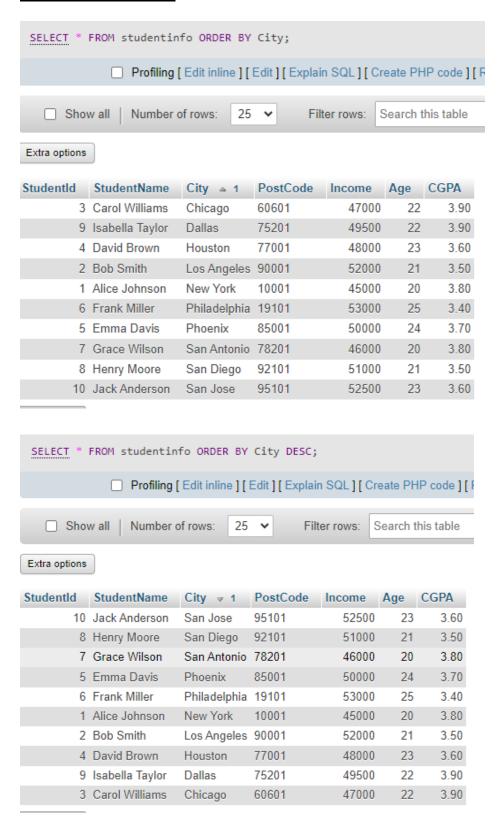






3.80

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



<u>UPDATE</u> statement is used to modify the existing records in a table:

```
UPDATE studentinfo SET StudentName = 'Faysal', City = 'Dhaka', PostCode =
'1361' WHERE StudentId = 1;
```

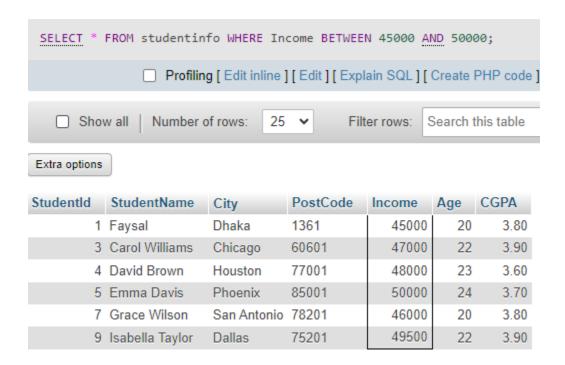
Studentld	StudentName	City	PostCode	Income	Age	CGPA
1	Faysal	Dhaka	1361	45000	20	3.80
2	Bob Smith	Los Angeles	90001	52000	21	3.50
3	Carol Williams	Chicago	60601	47000	22	3.90
4	David Brown	Houston	77001	48000	23	3.60
5	Emma Davis	Phoenix	85001	50000	24	3.70
6	Frank Miller	Philadelphia	19101	53000	25	3.40
7	Grace Wilson	San Antonio	78201	46000	20	3.80
8	Henry Moore	San Diego	92101	51000	21	3.50
9	Isabella Taylor	Dallas	75201	49500	22	3.90
10	Jack Anderson	San Jose	95101	52500	23	3.60

DELETE statement is used to delete existing records in a table:

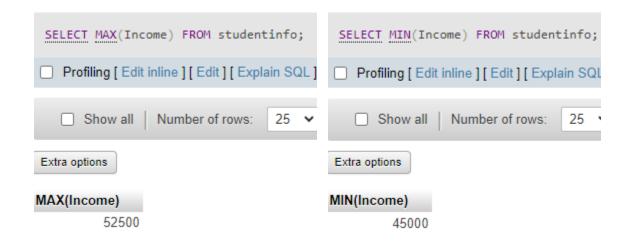
DELETE FROM studentinfo WHERE StudentName = 'Frank Miller';

Studentld	StudentName	City	PostCode	Income	Age	CGPA
1	Faysal	Dhaka	1361	45000	20	3.80
2	Bob Smith	Los Angeles	90001	52000	21	3.50
3	Carol Williams	Chicago	60601	47000	22	3.90
4	David Brown	Houston	77001	48000	23	3.60
5	Emma Davis	Phoenix	85001	50000	24	3.70
7	Grace Wilson	San Antonio	78201	46000	20	3.80
8	Henry Moore	San Diego	92101	51000	21	3.50
9	Isabella Taylor	Dallas	75201	49500	22	3.90
10	Jack Anderson	San Jose	95101	52500	23	3.60

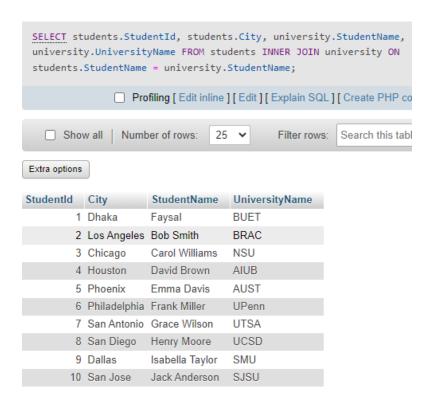
BETWEEN operator selects values within a given range:



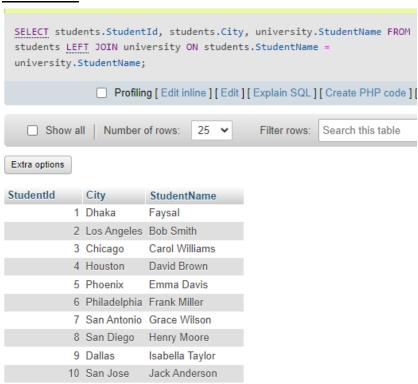
MIN() and MAX() function returns the smallest & largest value:



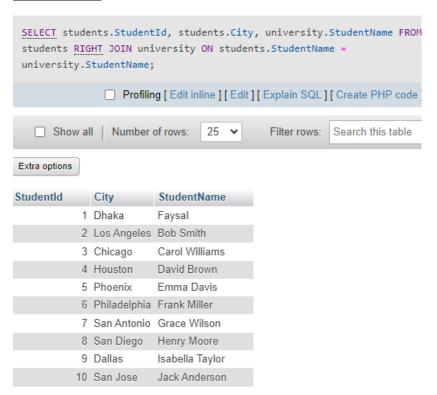
Inner Join:



Left Join:



Right Join:



Full outer Join:

