## **MANAGING TABLE**

## • Create Database:

CREATE DATABASE databasename;

### Create TABLE:

```
CREATE TABLE Bugresistance (
StudentID int,
StudentName varchar(255),
City varchar(255),
PostalCode varchar(255),
INCOME varchar(255)
);
```

## • INSERT VALUE in Table:

INSERT INTO Bugresistance (StudentID, StudentName, City, PostalCode, INCOME) VALUES (101, 'Masud', 'Noakhali', '4000', '10000');

## • DROP TABLE:

DROP TABLE table\_name;

## ALTER TABLE:

ALTER TABLE Bugresistance ADD CGPA varchar(255);

## NOT NULL:

ALTER TABLE Bugresistance ADD AGE int NOT NULL;

## • UNIQUE:

ALTER TABLE Bugresistance ADD NationalID int UNIQUE;

## • TRUNCATE:

TRUNCATE Bugresistance;



# **QUERYING DATA FROM SINGLE TABLE**

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

SELECT \* FROM Bugresistance;

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

SELECT DISTINCT City FROM Bugresistance;

SELECT COUNT(DISTINCT City) FROM Bugresistance;

#### WHERE clause is used to filter records

SELECT \* FROM Bugresistance WHERE City='Noakhali';

SELECT \* FROM Bugresistance WHERE StudentID=101;

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

SELECT \* FROM Bugresistance WHERE City='Chittagong' AND AGE=25;

SELECT \* FROM Bugresistance WHERE City='Barisal' OR AGE=30;

SELECT \* FROM Bugresistance WHERE NOT City='Comilla';

SELECT \* FROM Bugresistance WHERE City='Chittagong' AND (CGPA>=3.00 OR AGE=25);

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

SELECT \* FROM Bugresistance ORDER BY City;

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

UPDATE Bugresistance SET StudentName = 'Mohammad Ali', City= 'Hatiya' WHERE CustomerID = 104;

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

DELETE FROM Bugresistance WHERE StudentName='Jamal';

## BETWEEN operator selects values within a given range

SELECT \* FROM Bugresistance WHERE Income BETWEEN 10000 AND 200000;

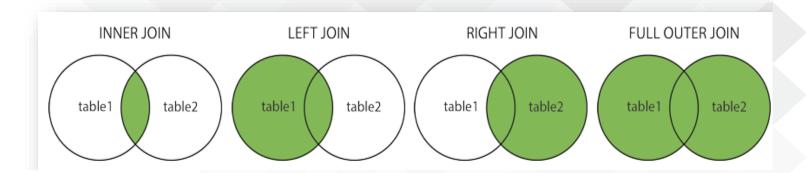
## MIN() and MAX() function returns the smallest & largest value

SELECT MIN(INCOME) FROM bugresistance;

SELECT MAX(INCOME) FROM bugresistance;



# **QUERYING DATA FROM MULTIPLE TABLE**



## **INNRER JOIN**

SELECT Bugresistance. StudentID, University. StudentName, Bugresistance. City

**FROM Bugresistance** 

INNER JOIN University ON Bugresistance.StudentName=University.StudentName;

## **LEFT JOIN**

SELECT Bugresistance. StudentID, University. StudentName, Bugresistance. City

**FROM Bugresistance** 

LEFT JOIN University ON Bugresistance.StudentName=University.StudentName;

## **RIGHT JOIN**

SELECT Bugresistance. StudentID, University. StudentName, Bugresistance. City

**FROM Bugresistance** 

RIGHT JOIN University ON Bugresistance. StudentName=University. StudentName;

## **FULL OUTER JOIN**

SELECT Bugresistance. StudentID, University. StudentName, Bugresistance. City

**FROM Bugresistance** 

FULL OUTER JOIN University ON Bugresistance. StudentName = University. StudentName;

