

# **SESSION WILL BE DIVIDED INTO**

1. Understanding AUTO\_INCREMENT
2. Understanding SQL thumb rule
3. Understanding SELECT statements
4. Understanding WHERE Clause
5. Starting with Operators

## SECTION 1

# Understanding Auto\_increment

- What is AUTO\_INCREMENT?
  - Automatically generates a unique number when a new record is inserted.
  - Usually used for **Primary Key** fields.

-- Create a database

```
CREATE DATABASE DemoDB;
```

```
USE DemoDB;
```

-- Create a table with AUTO\_INCREMENT

```
CREATE TABLE Students (  
    student_id INT AUTO_INCREMENT PRIMARY KEY,  
    student_name VARCHAR(100),  
    student_age INT  
);
```

## SECTION 1

# Understanding Auto\_increment

- **AUTO\_INCREMENT in Snowflake?**
  - **A database object that generates unique numbers.**
  - **Used when you want custom control over ID generation (like AUTO\_INCREMENT but more flexible).**

### **Method 1 -**

-- Create a sequence

```
CREATE OR REPLACE SEQUENCE student_seq START = 1  
INCREMENT = 1;
```

-- Create a table

```
CREATE OR REPLACE TABLE Students (  
    student_id INT,  
    student_name STRING,  
    student_age INT  
);
```

-- Insert data using the sequence

```
INSERT INTO Students  
VALUES (student_seq.NEXTVAL, 'Amit', 20)
```

## SECTION 1

# Understanding Auto\_increment

- **AUTO\_INCREMENT** in Snowflake?
  - A database object that generates unique numbers.
  - Used when you want custom control over ID generation (like **AUTO\_INCREMENT** but more flexible).

**Method 2 -**

**-- Create a sequence**

```
CREATE OR REPLACE SEQUENCE student_seq START = 1  
INCREMENT = 1;
```

**-- Use the sequence in CREATE TABLE**

```
CREATE OR REPLACE TABLE Students (  
    student_id INT DEFAULT student_seq.NEXTVAL,  
    student_name STRING,  
    student_age INT  
);
```

**-- Insert data without specifying student\_id**

```
INSERT INTO Students (student_name, student_age)  
VALUES ('Ravi', 23), ('Anita', 24);
```

## SECTION 2

# Thumb Rule To Follow

- Thumb Rule to follow!

## SECTION 3

# Understanding Select Statements

- **Select Statement**
  - The **SELECT** statement is used to retrieve data from one or more tables in a database.
  - It is the most commonly used SQL command
  - **Basic Syntax:**
    - **SELECT** column1, column2, ... column\_N
    - **FROM** TABLE\_NAME
  - The **SELECT** statement is used to retrieve data from one or more tables in a database.
  - It is the most commonly used SQL command
  - We can also use Alias to rename the columns we are printing
    - **SELECT** student\_name AS Name, city AS Location **FROM** Students;
  - One can use the \* **keyword** to get all the columns