Module 2 CRUD Operations

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Data Types

```
1. Numeric data type - (INT, BIGINT)
```

- 2. String data type (TEXT, CHAR, VARCHAR)
- 3. Default values

```
NOT NULL Constraint
DAFAULT (To automatically assign values)

CREATE TABLE club
(
Player name VARCHAR(50) NOT NULL,
Location VARCHAR(50) DEFAULT "Barcelona"
);
```

4. CHECK - It checks for the right and limited set of values to be inserted into the defined column

Department TEXT CHECK (Department IN('CSE','ECE','Al')) It can only take values that are defined in the IN clause.

SQL CREATE AND READ COMMAND

- 1. CREATE TABLE books (to create a new table)
- 2. DROP TABLE books (to drop the existing table)
- 3. CREATE TABLE TABLE_name(column name data type, ...)

```
CREATE TABLE customers(
    Customer_name VARCHAR(50),
    Phone_number INT
);
```

4. ALTER TABLE STATEMENT (Add, drop and modify)

```
ALTER TABLE customers
ADD COLUMN Nationality VARCHAR(255)
ADD COLUMN email_address VARCHAR(255)
```

ALTER TABLE customers DROP COLUMN nationality;

ALTER TABLE customers MODIFY customer_name VARCHAR(100);

- INSERT INTO customers(customer_name, phone_number) VALUES ('Sid', '80384893');
- 6. INSERT INTO select statement: This is used to query the data from source table and insert into column of target table.

```
INSERT INTO target_table(target_table column) Select column from source_table;
```

```
queries.sql + 43pcfmfej ✓

1 CREATE TABLE student_tbl
2 (
3 ID INT,
4 first_name VARCHAR(100),
5 last_name VARCHAR(100),
6 home_address VARCHAR(100),
7 college_address VARCHAR(100),
8 contact_number INT,
```

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STDIN						
Input for the program (Optional)						
Output:						
+ ID	first_name	 last_name	+ home_address	 college_address	 contact_number	 department
4 5	Marcob James Harry Alex Garry Henry	Jack Jeo Winston More Page Cavil	42 B9 B apt 80 H3 apt 83 G7 A apt 82 H8 A apt	Falcon University NYU Tandon Columbia University Falcon University Falcon University Falcon University	90283800 39028908 89372983 92893984 89892033 89298380	CSE