### DAY ☀️: \*\*Task – Data Types in SQL\*\*

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### ⚡ Task 1: Create a Basic Table with Data Types

\*\*Question:\*\* Create a table `employees` with id (INT), name (VARCHAR), and salary (FLOAT).

\*\*Requirements:\*\*

- Use correct data types for each column

---**Query : CREATE TABLE employees(**

**ID INT,**

**Name VARCHAR(100),**

**Salary FLOAT**

**);**

### ⚡ Task 2: Create a Table for Book Details

\*\*Question:\*\* Create a `books` table to store id (INT), title (VARCHAR), price (FLOAT), and publish\_date (DATE).

\*\*Requirements:\*\*

- Set title as `VARCHAR(100)`

- Use proper types for price and date

---**Query : CREATE TABLE Books(**

**StoreID INT,**

**Title VARCHAR(100),**

**Price FLOAT,**

**Published\_Date DATE**

**);**

### ⚡ Task 3: Add a BOOLEAN Column

\*\*Question:\*\* Create a `payments` table with id (INT), amount (FLOAT), and paid (BOOLEAN).

\*\*Requirements:\*\*

- Track whether payment is made using TRUE or FALSE

---**Query : CREATE TABLE Registration(**

**id INT,**

**Amount FLOAT,**

**Paid BOOLEAN);**

### ⚡ Task 4: Create Table for Student Registration

\*\*Question:\*\* Create a `registrations` table with student\_id (INT), name (VARCHAR), and date\_registered (DATE).

\*\*Requirements:\*\*

- Use `VARCHAR(50)` for name

---**Query : CREATE TABLE Registration(**

**Student\_id INT,**

**Name VARCHAR(50),**

**Date\_Registered DATE**

**);**

### ⚡ Task 5: Create Table with All Major Types

\*\*Question:\*\* Create a table `products` with these columns:

- product\_id (INT)

- product\_name (VARCHAR)

- price (FLOAT)

- in\_stock (BOOLEAN)

- added\_on (DATE)

---**Query : CREATE TABLE Products(**

**product\_id INT,**

**product\_name VARCHAR(50),**

**price FLOAT,**

**In\_Stocks BOOLEAN,**

**added\_on DATE**

**);**

### ⚡ Task 6: Insert Sample Data with All Types

\*\*Question:\*\* Insert one record into the `products` table with all correct types.

\*\*Requirements:\*\*

- Use string for `product\_name`, float for `price`, etc.

---**Query : INSERT INTO products**

**VALUES (10012,'REFRIGERATOR',100.59,TRUE,2025-04-21)**

### ⚡ Task 7: Identify Data Types

\*\*Question:\*\* Given a table `patients(name, age, admitted\_on, fever)`, assign correct data types.

\*\*Requirements:\*\*

- Name = text, age = number, admitted\_on = date, fever = boolean

---**Query: CREATE TABLE patients(**

**name VARCHAR(50),**

**Age INT,**

**admitted\_on DATE,**

**Fever BOOLEAN**

**);**

### ⚡ Task 8: Create Course Table

\*\*Question:\*\* Create `courses` table with course\_id (INT), course\_name (VARCHAR), credits (INT), created\_on (DATE).

\*\*Requirements:\*\*

- Store course creation date correctly

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### ⚡ Task 9: Create Login Table

\*\*Question:\*\* Create `logins` table with user\_id (INT), username (VARCHAR), active (BOOLEAN), last\_login (DATE).

\*\*Requirements:\*\*

- Use BOOLEAN to track active users

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### ⚡ Task 10: Create Table with Length-Limited Text

\*\*Question:\*\* Create a `feedback` table with name (VARCHAR(30)) and message (VARCHAR(255)).

\*\*Requirements:\*\*

- Use suitable VARCHAR limits for both columns

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