

SQL Intern Task-2

Task 2 : Data Inserting and Handling Nulls

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DATA INSERTION AND HANDLING NULLS

Create the Sample Table - employees table

```
CREATE TABLE employees(  
    Emp_id INTEGER PRIMARY KEY,  
    Name VARCHAR (50) NOT NULL,  
    Department VARCHAR (50) ,  
    Salary REAL DEFAULT 30000,  
    Email VARCHAR(100)  
);
```

INSERT DATA (Use NULL and DEFAULT properly)

Inserting full data

```
INSERT INTO employees (emp_id, name, department, salary, email )  
VALUES (1, 'Subu', 'HR', 45000, 'subu@example.com' );
```

Inserting with NULL (no email)

```
INSERT INTO employees ( emp_id, name, department, salary, email )  
VALUES (2, 'Shanthi', 'Finance ,40000, NULL );
```

Insert with DEFAULT (skip salary column)

```
INSERT INTO employees ( emp_id, name, department, email )  
VALUES (3, 'Ramamoorthi', 'IT', 'ramamoorthi@example.com' );
```

Insert with NULL for optional department

```
INSERT INTO employees ( emp_id, name, department, salary, email )  
VALUES ( 4, 'Velava', NULL, 38000, 'velava@example.com');
```

UPDATE Records with Conditions

Updating Salary for Finance employees

```
UPDATE employees  
SET salary = 42000  
WHERE department = 'Finance' ;
```

Updating email for employee with NULL email

```
UPDATE employees  
SET email = 'karthik@example.com'  
WHERE email IS NULL;
```

DELETING Records with Conditions

Delete employee with NULL department

```
DELETE FROM employees  
WHERE department IS NULL;
```

Delete employee with specific ID

```
DELETING FROM employees  
WHERE emp_id = 3;
```

Outcome:

- A populated database with clean and consistent data.
- All insertions handled missing values properly using NULL and DEFAULT.
- Updates corrected incomplete records.
- Deletions removed unneeded or invalid entries.