



Faculty of Technology and Engineering

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Laboratory Manual

Academic Year	:	2025-26	Semester	:	4
Course code	:	ITUC202	Course name	:	Fundamentals of Database Management System

PRACTICAL – 2

Aim: To manage and update a company's employee-related database by performing essential Data Definition Language (DDL) operations.

Description:

In this scenario, the organization is restructuring its data system and needs to create new tables, duplicate existing structures, rename tables, modify column definitions, enforce constraints, and remove unwanted fields. The objective is to ensure that the database schema remains accurate, consistent, and adaptable to organizational changes.

Constraints:

- 1) NOT NULL constraint ensures that critical fields are not left empty.
- 2) UNIQUE constraint ensures data integrity by avoiding duplicate values.
- 3) CHECK constraint enforces domain integrity for column values.

Tasks:

- 1) Create a table SUPPLIER from EMPLOYEE with all columns and verify.
- 2) Create a table SUP1 from EMPLOYEE with the first two columns and verify.
- 3) Create a table SUP2 from EMPLOYEE with no data and verify.

SQL Queries:

-- Task 1: Create supplier table with all columns

```
CREATE TABLE supplier AS  
SELECT * FROM employee;
```

-- Verification

```
DESC supplier;
```

-- Task 2: Create sup1 table with first two columns

```
CREATE TABLE sup1 AS  
SELECT emp_no, emp_name FROM employee;
```

-- Verification

```
DESC sup1;
```

-- Task 3: Create sup2 table with structure only

```
CREATE TABLE sup2 AS  
SELECT * FROM employee WHERE 1=2;
```

-- Verification

```
SELECT * FROM sup2;
```

Result:

All required tables were created successfully. The structures and data conditions were verified using DESC and SELECT statements.

Conclusion:

This practical demonstrates the use of SQL DDL operations to manage and restructure database schemas efficiently while maintaining data integrity.