

DBMS Lab Assignment-01

BCS-551

Session-2024-25

1. Implementation of DDL commands (create, alter, drop and truncate) with and without using constraints.

Section-A

1. Create table **Employee** with the following attributes and data type:

emp_no	varchar2(10)
emp_name	varchar2(100)
emp_street	varchar2(100)
emp_city	varchar2(50)
emp_job	varchar2(50)
emp_hiredate	date
emp_mgr	varchar2(10)
emp_deptno	varchar2(10)

Create table **Dept** with the following attributes and data type:

dept_id	varchar2(10)
d_name	varchar2(80)
d_location	varchar2(50)

2. Add column emp_salary and emp_dateofbirth with appropriate data type.
3. Rename the column emp_dateofbirth to emp_dob.
4. Drop column emp_dob from the table Employee.
5. Rename table "Dept" to "remDept"
6. Rename Column "emp_city" to "emp_loc" in the table Employee

Section-B

Create table EmpWithC (emp_id, emp_name, street, city, age) with appropriate data type and apply following constraints during designing of table.

1. Primary Key to emp_id.
2. Emp_name can't have null values.
3. Age of employee can't be less than 18 years.
4. City of employees should be unique.

Do the following changes in the above table using DDL commands:

1. Change the size and data type of the column emp_name to varchar2(125).
2. Add constraint UNIQUE to the column emp_name.
3. Drop the UNIQUE constraint in emp_name column.
4. Add CHECK constraint to the column emp_id. emp_id can't be less than 99
5. DROP CHECK constraint of column emp_id.

Section-C

Create table EmpWithoutC (emp_id, emp_name, street, city, age, status) without any constraint and then do the following changes in the table

1. Add primary key emp_id.
2. Drop the existing primary key on emp_id column.
3. emp_name can't have null values.
4. Change the size and data type of the column street to varchar(15).
5. Add constraint UNIQUE to the column emp_id.
6. Drop the UNIQUE constraint in emp_id column.
7. Change the primary key constraint from emp_id to a new column empcode.
8. Add CHECK constraint to the column status. We will only allow 'A', 'T' in the status Column.
9. Add CHECK constraint to the column emp_name. We should enter at least one character in the emp_name Column.
10. DROP CHECK constraint of column status.
11. Create foreign keys using ALTER Table command to make relationship in the below tables:

```
CREATE TABLE products
( prod_id number(10) PRIMARY KEY,
  prod_name varchar2(250) NOT NULL,
  prod_qty int NOT NULL,
  prod_price Number(5,2) NOT NULL,
  supplier_id Number(10)
);
```

```
CREATE TABLE suppliers
( supplier_id number(10) PRIMARY KEY,
  supplier_name varchar2(50) NOT NULL,
  city varchar2(50)
);
```