

Institute of Engineering & Technology
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DATABASE MANAGEMENT SYSTEM(CER4C4)

Lab Assignment-3

Submitted To:

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Lab Assignment-3

- **Create one table employee with fields**
 - **Eno - primary key and apply sequence starts with 101**
 - **Ename - not null**
 - **Address - default 'Nashik'**
 - **Joindate**
 - **Post**
 - **Salary - check > 5000**

Query:-

(I) CREATE TABLE employee

- ➔ **(**
- ➔ **Eno int NOT NULL PRIMARY KEY**
- ➔ **AUTO_INCREMENT,**
- ➔ **Ename varchar(25) NOT NULL,**
- ➔ **Address varchar(25) DEFAULT 'Nashik',**
- ➔ **Joindate DATE,**
- ➔ **Post varchar(25),**
- ➔ **Salary int CHECK(Salary > 5000)**
- ➔ **);**

(II) ALTER TABLE employee

➔ AUTO_INCREMENT = 101;

(III) DESC employee;

```
mysql> CREATE TABLE employee
-> (
-> Eno int NOT NULL PRIMARY KEY AUTO_INCREMENT,
-> Ename varchar(25) NOT NULL,
-> Address varchar(25) DEFAULT 'Nashik',
-> Joindate DATE,
-> Post varchar(25),
-> Salary int CHECK(Salary > 5000)
-> );
Query OK, 0 rows affected (0.05 sec)

mysql> ALTER TABLE employee AUTO_INCREMENT = 101;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| Eno   | int       | NO   | PRI | NULL    | auto_increment |
| Ename | varchar(25) | NO   |     | NULL    |               |
| Address | varchar(25) | YES  |     | Nashik  |               |
| Joindate | date      | YES  |     | NULL    |               |
| Post  | varchar(25) | YES  |     | NULL    |               |
| Salary | int       | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

- **Create another table emp_proj with fields**
- **Eno - foreign key**
 - **Project_name**
 - **Loc**

Query:-

(I) CREATE TABLE emp_proj
➔ (
➔ Eno int PRIMARY KEY,
➔ Project_name varchar(25),
➔ Loc varchar(25),
➔ FOREIGN KEY (Eno) REFERENCE
employee(Eno)
➔);

(II) DESC emp_proj;

```
mysql> CREATE TABLE emp_proj
-> (
-> Eno int PRIMARY KEY,
-> Project_name varchar(25),
-> Loc varchar(25),
-> FOREIGN KEY (Eno) REFERENCES employee(Eno)
-> );
Query OK, 0 rows affected (0.04 sec)

mysql> DESC emp_proj;
```

| Field | Type | Null | Key | Default | Extra |
|--------------|-------------|------|-----|---------|-------|
| Eno | int | NO | PRI | NULL | |
| Project_name | varchar(25) | YES | | NULL | |
| Loc | varchar(25) | YES | | NULL | |

```
3 rows in set (0.01 sec)
```

➤ **Create Index on Ename field of employee table.**

Query:-

(I) **CREATE INDEX DEMOINDEX**
➔ **ON employee(Ename);**

(II) **SHOW INDEXES FROM employee;**

(III) **DESC employee;**

```
mysql> CREATE INDEX DEMOINDEX
      -> ON employee(Ename);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> SHOW INDEXES FROM employee;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| employee | 0 | PRIMARY | 1 | Eno | A | 0 | NULL | NULL | | BTREE | | | YES | NUL |
| employee | 1 | DEMOINDEX | 1 | Ename | A | 0 | NULL | NULL | | BTREE | | | YES | NUL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> DESC employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Eno | int | NO | PRI | NULL | auto_increment |
| Ename | varchar(25) | NO | MUL | NULL | |
| Address | varchar(25) | YES | | Nashik | |
| Joindate | date | YES | | NULL | |
| Post | varchar(25) | YES | | NULL | |
| Salary | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```