EXPERIMENT -1

Create a table called Employee & execute the following.

Employee (EMPNO, ENAME, JOB, MANAGER_NO, SAL, COMMISSION)

1. Create a user and grant all permissions to the user.

2. Insert the any three records in the employee table contains attributes

EMPNO, ENAME JOB, MANAGER_NO, SAL, COMMISSION and use rollback.

Check the result.

3. Add primary key constraint and not null constraint to the employee table.

4. Insert null values to the employee table and verify the result.

- Creating the Employee Table.

```
CREATE TABLE COMPANY.Employee (
    EMPNO INT,
    ENAME VARCHAR(255),
    JOB VARCHAR(255),
    MANAGER_NO INT,
    SAL DECIMAL(10, 2),
    COMMISSION DECIMAL(10, 2)
);
```

```
SHOW TABLES;
```

```
+------------------+
| Tables_in_COMPANY |
+------------------+
| Employee         |
+------------------+
```

```
DESC COMPANY.Employee;
```

```
+------------+---------------+------+-----+---------+-------+
| Field      | Type          | Null | Key | Default | Extra |
+------------+---------------+------+-----+---------+-------+
| EMPNO      | int           | YES  |     | NULL    |       |
| ENAME      | varchar(255)  | YES  |     | NULL    |       |
| JOB        | varchar(255)  | YES  |     | NULL    |       |
| MANAGER_NO | int           | YES  |     | NULL    |       |
| SAL        | decimal(10,2) | YES  |     | NULL    |       |
| COMMISSION | decimal(10,2) | YES  |     | NULL    |       |
+------------+---------------+------+-----+---------+-------+
```

1. Create a user and grant all permissions to the user.

```
GRANT ALL PRIVILEGES ON COMPANY.Employee
```

```
SELECT * FROM Employee;
```

```
INSERT INTO Employee (EMPNO, ENAME, JOB, MANAGER_NO, SAL, COMMISSION
VALUES (1, 'Kavana Shetty', 'Manager', NULL, 5000.00, 1000.00);
```

```
COMMIT;
```

```
SELECT * FROM Employee;
```

```
+-------+---------------+---------+------------+---------+------------+
| EMPNO | ENAME         | JOB     | MANAGER_NO | SAL     | COMMISSION |
+-------+---------------+---------+------------+---------+------------+
|     1 | Kavana Shetty | Manager |       NULL | 5000.00 |    1000.00 |
+-------+---------------+---------+------------+---------+------------+
```

2. Insert the any three records in the employee table contains attributes EMPNO, ENAME JOB, MANAGER_NO, SAL, COMMISSION and use rollback. Check the result.

```
START TRANSACTION;
```

```
[redacted] INSERT INTO Employee (EMPNO, ENAME, JOB, MANAGER_NO, SAL, COMMISSION)
VALUES (2, 'Ram Charan', 'Developer', 1, 4000.00, NULL);
```

```
[redacted] INSERT INTO Employee (EMPNO, ENAME, JOB, MANAGER_NO, SAL, COMMISSION)
VALUES (3, 'Honey Singh', 'Salesperson', 2, 3000.00, 500.00);
```

```
SELECT * FROM Employee;
```

EMPNO	ENAME	JOB	MANAGER_NO	SAL	COMMISSION
1	Kavana Shetty	Manager	NULL	5000.00	1000.00
2	Ram Charan	Developer	1	4000.00	NULL
3	Honey Singh	Salesperson	2	3000.00	500.00

```
DELETE FROM Employee where ENAME = 'Kavana Shetty';
```

```
SELECT * FROM Employee;
```

EMPNO	ENAME	JOB	MANAGER_NO	SAL	COMMISSION
2	Ram Charan	Developer	1	4000.00	NULL
3	Honey Singh	Salesperson	2	3000.00	500.00

```
ROLLBACK;
```

```
SELECT * FROM Employee;
```

EMPNO	ENAME	JOB	MANAGER_NO	SAL	COMMISSION
1	Kavana Shetty	Manager	NULL	5000.00	1000.00

3. Add primary key constraint and not null constraint to the employee table.

```
ALTER TABLE Employee
ADD CONSTRAINT pk_employee PRIMARY KEY (EMPNO);
```

```
DESC Employee;
```

Field	Type	Null	Key	Default	Extra
EMPNO	int	NO	PRI	NULL	
ENAME	varchar(255)	YES		NULL	
JOB	varchar(255)	YES		NULL	
MANAGER_NO	int	YES		NULL	
SAL	decimal(10,2)	YES		NULL	
COMMISSION	decimal(10,2)	YES		NULL	

```
INSERT INTO Employee (EMPNO, ENAME, JOB, MANAGER_NO, SAL, COMMISSION)
VALUES (1, 'Ranjan', 'Manager', NULL, 5000.00, 1000.00);
```

4. Insert null values to the employee table and verify the result.

```
ALTER TABLE Employee
MODIFY ENAME VARCHAR(255) NOT NULL,
MODIFY JOB VARCHAR(255) NOT NULL,
MODIFY SAL DECIMAL(10, 2) NOT NULL;
```

```
INSERT INTO Employee (EMPNO, ENAME, JOB, MANAGER_NO, SAL, COMMISSION)
VALUES (4, 'Ranjan', 'Manager', NULL, 5000.00, 1000.00);
```

```
SELECT * FROM Employee;
```

EMPNO	ENAME	JOB	MANAGER_NO	SAL	COMMISSION
1	Kavana Shetty	Manager	NULL	5000.00	1000.00
4	Ranjan	Manager	NULL	5000.00	1000.00

```
INSERT INTO Employee (ENAME, JOB, MANAGER_NO, SAL, COMMISSION)
VALUES (NULL, 'Tester', NULL, 3500.00, NULL);
```