

Ex.No.: 4

WORKING WITH CONSTRAINTS

Date: 16/08/2024

- 1) Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my_emp_id_pk.

```
alter table EMP1 add constraint my_emp_id_pk  
PRIMARY KEY(ID);
```

- 2) Create a PRIMARY KEY constraint to the DEPT table using the ID column. The constraint should be named at creation. Name the constraint my_dept_id_pk.

```
alter table DEPT add constraint my_dept_id_pk  
PRIMARY KEY(ID);
```

- 3) Add a column DEPT_ID to the EMP table. Add a foreign key reference on the EMP table that ensures that the employee is not assigned to nonexistent department. Name the constraint my_emp_dept_id_fk.

```
alter table emp add  
DEPT_ID Number(10);
```

```
alter table emp  
add constraint my_emp_dept_id_fk FOREIGN KEY(DEPT_ID) references  
dept(ID);
```

- 4) Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision 2, scale 2. Add a constraint to the commission column that ensures that a commission value is greater than zero.

```
alter table emp add  
COMMISSION Number(2,2);  
alter table emp add CONSTRAINT commission_gt_zero  
CHECK(COMMISSION > 0);
```