

## EX - 4: WORKING WITH CONSTRAINTS

- 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);
```