

Exp-4

Name: Praveen Somasundaram

roll.no:230701246

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);

Object Type **TABLE** Object **EMPL**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPL	EMPLOYEE_ID	VARCHAR2	4	-	-	1	-	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	JOB_CODE	VARCHAR2	4	-	-	-	✓	-	-
	SAL	NUMBER	-	9	0	-	✓	-	-
	HIRE_DATE	DATE	7	-	-	-	✓	-	-
	DEPT_ID	VARCHAR2	4	-	-	-	✓	-	-
1 - 6									

- 2) Create a PRIMAY KEY constraint to the DEPT table using the ID colum. 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);

Object Type **TABLE** Object **DEPT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT	ID	NUMBER	-	7	0	1	-	-	Should only be numbers
	NAME	VARCHAR2	25	-	-	-	✓	-	-
1 - 2									

- 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);

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

- ```
alter table emp
```

```
alter table emp
```

|             |       |        |      |
|-------------|-------|--------|------|
| Object Type | TABLE | Object | EMPL |
|-------------|-------|--------|------|

| Table | Column      | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|-------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| EMPL  | EMPLOYEE_ID | VARCHAR2  | 4      | -         | -     | 1           | -        | -       | -       |
|       | LAST_NAME   | VARCHAR2  | 25     | -         | -     | -           | ✓        | -       | -       |
|       | JOB_CODE    | VARCHAR2  | 4      | -         | -     | -           | ✓        | -       | -       |
|       | SAL         | NUMBER    | -      | 9         | 0     | -           | ✓        | -       | -       |
|       | HIRE_DATE   | DATE      | 7      | -         | -     | -           | ✓        | -       | -       |
|       | DEPT_ID     | VARCHAR2  | 4      | -         | -     | -           | ✓        | -       | -       |
|       | COMMISSION  | NUMBER    | -      | 2         | 2     | -           | ✓        | -       | -       |
| 1 - 7 |             |           |        |           |       |             |          |         |         |

