

EXERCISE-3

INCLUDING CONSTRAINTS

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DEPARTMENT	IT

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.

The screenshot shows a SQL command interface with the following details:

- SQL Commands** tab is active.
- Language**: SQL
- Rows**: 10
- Commands**:

```
1 ALTER TABLE EMP
2 ADD CONSTRAINT my_emp_id_pk PRIMARY KEY(ID);
```
- Results** tab is active.
- Output**:

```
Table altered.

0.06 seconds
```

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.

The screenshot shows a SQL command interface with the following details:

- SQL Commands** tab is active.
- Language**: SQL
- Rows**: 10
- Commands**:

```
1 ALTER TABLE DEPARTMENT_TABLE
2 ADD CONSTRAINT my_dept_id_pk PRIMARY KEY(DEPT_ID);
```
- Results** tab is active.
- Output**:

```
Table altered.

0.06 seconds
```

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.

The screenshot shows a SQL command window with the following details:

- SQL Commands** tab is selected.
- Language**: SQL
- Rows**: 10
- Clear Command** and **Find Tables** buttons are present.
- Code Area**:

```
1 ALTER TABLE EMP
2 ADD (
3     DEPT_ID INT,
4     CONSTRAINT my_emp_dept_id_fk FOREIGN KEY (DEPT_ID)
5     REFERENCES DEPARTMENT_TABLE (DEPT_ID)
6 );
7
```
- Results Tab** is selected.
- Output**:

```
Table altered.

0.07 seconds
```

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.

The screenshot shows a SQL command window with the following details:

- SQL Commands** tab is selected.
- Language**: SQL
- Rows**: 10
- Clear Command** and **Find Tables** buttons are present.
- Code Area**:

```
1 ALTER TABLE EMP
2 ADD (
3     COMMISSION NUMBER(2,2)
4     CONSTRAINT check_comission_positive CHECK (COMMISSION > 0)
5 );
6
```
- Results Tab** is selected.
- Output**:

```
Table altered.

0.05 seconds
```