

EXERCISE-1

Creating and Managing Tables

1. Create the DEPT table based on the DEPARTMENT following the table instance chart below. Confirm that the table is created.

Column name	ID	NAME
Key Type		
Nulls/Unique		
FK table		
FK column		
Data Type	Number	Varchar2
Length	7	25

```
CREATE TABLE DEPT (  
  ID NUMBER(7),  
  NAME VARCHAR2(25),  
  CONSTRAINT PK_DEPT PRIMARY KEY (ID)  
);  
DESCRIBE DEPT;
```

2. Create the EMP table based on the following instance chart. Confirm that the table is created.

Column name	ID	LAST_NAME	FIRST_NAME	DEPT_ID
Key Type				
Nulls/Unique				
FK table				
FK column				
Data Type	Number	Varchar2	Varchar2	Number
Length	7	25	25	7

```
CREATE TABLE EMP (  
  ID NUMBER(7),  
  LAST_NAME VARCHAR2(25),  
  FIRST_NAME VARCHAR2(25),  
  DEPT_ID NUMBER(7),  
  CONSTRAINT PK_EMP PRIMARY KEY (ID),  
  CONSTRAINT FK_EMP_DEPT FOREIGN KEY (DEPT_ID) REFERENCES DEPT(ID)  
);  
Confirm the table creation  
DESCRIBE EMP;
```

3. Modify the EMP table to allow for longer employee last names. Confirm the modification.(Hint: Increase the size to 50)

```
ALTER TABLE EMP MODIFY (LAST_NAME VARCHAR2(50));  
Confirm the modification  
DESCRIBE EMP
```

4. Create the EMPLOYEES2 table based on the structure of EMPLOYEES table. Include Only the Employee_id, First_name, Last_name, Salary and Dept_id coloumns. Name the columns Id, First_name, Last_name, salary and Dept_id respectively.

```
CREATE TABLE EMPLOYEES2 AS SELECT  
  ID AS Id,  
  FIRST_NAME AS First_name,  
  LAST_NAME AS Last_name,  
  SALARY,  
  DEPT_ID AS Dept_id  
FROM EMPLOYEES;  
Confirm the table creation  
DESCRIBE EMPLOYEES2;
```

5. Drop the EMP table.

```
DROP TABLE EMP;
```

6. Rename the EMPLOYEES2 table as EMP.

```
RENAME TABLE EMPLOYEES2 TO EMP;
```

7. Add a comment on DEPT and EMP tables. Confirm the modification by describing the table.

```
ALTER TABLE DEPT COMMENT = 'Department Table';
```

```
ALTER TABLE EMP COMMENT = 'Employee Table';
```

```
DESCRIBE DEPT;
```

```
DESCRIBE EMP;
```

8. Drop the First_name column from the EMP table and confirm it.

```
ALTER TABLE EMP DROP COLUMN FIRST_NAME;
```

Confirm the column has been dropped

```
DESCRIBE EMP;
```