

**RAJALAKSHMI ENGINEERING  
COLLEGE RAJALAKSHMI NAGAR,  
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**RAJALAKSHMI  
ENGINEERING COLLEGE**  
An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY, Chennai

**CS19443**

**DATABASE MANAGEMENT SYSTEMS  
LAB**

**Laboratory  
Record Note Book**

Name

:..... Year / Branch / Section :

[illegible]

## 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.

<b>Column name</b>	ID	NAME
<b>Key Type</b>		
<b>Nulls/Unique</b>		
<b>FK table</b>		
<b>FK column</b>		
<b>Data Type</b>	Number	Varchar2
<b>Length</b>	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.

<b>Column name</b>	ID	LAST_NAME	FIRST_NAME	DEPT_ID
<b>Key Type</b>				
<b>Nulls/Unique</b>				
<b>FK table</b>				
<b>FK column</b>				
<b>Data Type</b>	Number	Varchar2	Varchar2	Number
<b>Length</b>	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;
```