

# **EXERCISE 1**

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

The screenshot shows a dark-themed SQL command interface. At the top, there's a header with a back arrow, the text "SQL Commands", and various buttons for "Language" (set to "SQL"), "Rows" (set to 10), "Clear Command", and "Find Tables". Below the header is a toolbar with icons for refresh, copy, search, and sort. The main area contains a code editor with the following SQL script:

```
1 CREATE TABLE DEPARTMENT_TABLE(
2     DEPT_ID NUMBER(6) NOT NULL,
3     DEPT_NAME VARCHAR(20) NOT NULL,
4     MANAGER_ID NUMBER(6),
5     LOCATION_ID NUMBER(4)
6 );
```

Below the code editor is a navigation bar with tabs: "Results" (which is selected and highlighted in blue), "Explain", "Describe", "Saved SQL", and "History". Under the "Results" tab, the output is displayed as:

Table created.  
0.04 seconds

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

The screenshot shows a database interface with a dark theme. At the top, there are several icons: a refresh circle, a circular arrow, a magnifying glass, a wrench, and a dropdown menu. Below the toolbar, a SQL query is displayed in a code editor:

```
1 CREATE TABLE EMP(
2   ID NUMBER(7),
3   LAST_NAME VARCHAR2(25),
4   FIRST_NAME VARCHAR2(25),
5   DEPT_ID NUMBER(7)
6 )
```

Below the code editor, there is a navigation bar with tabs: **Results**, Explain, Describe, Saved SQL, and History. The **Results** tab is currently selected. Under the results section, the message "Table created." is displayed. Below that, the execution time "0.03 seconds" is shown.

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

The screenshot shows a SQL query editor interface. At the top, there are dropdown menus for 'Language' set to 'SQL' and 'Rows' set to '10'. Below the header are several icons: a refresh circle, a circular arrow, a magnifying glass, a wrench, and a double arrow. The main area displays a single line of SQL code: '1 ALTER TABLE EMP MODIFY [(LAST\_NAME VARCHAR2(50))]' in red font, indicating it is a DDL statement. At the bottom, there is a navigation bar with tabs: 'Results' (which is selected and highlighted in blue), 'Explain', 'Describe', 'Saved SQL', and 'History'. The results section below the navigation bar contains the message 'Table altered.' and a performance metric '0.05 seconds'.

```
1 ALTER TABLE EMP MODIFY [(LAST_NAME VARCHAR2(50))]
```

Table altered.  
0.05 seconds

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.

Language SQL  Rows 10

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```
1 CREATE TABLE EMPLOYEES2(
2     employee_id NUMBER(4) NOT NULL,
3     first_name VARCHAR2(25),
4     last_name VARCHAR2(25) NOT NULL,
5     salary NUMBER(8,2),
6     dept_id NUMBER(4)
7 );
```

Results Explain Describe Saved SQL History

Table created.

0.04 seconds

5. Drop the EMP table.

The screenshot shows a database query interface with the following details:

- Language:** SQL
- Rows:** 10
- Query History:** Shows a single entry: "1 drop table emp".
- Toolbar:** Includes icons for refresh, undo, redo, search, and other common operations.
- Tab Bar:** Features tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is currently selected.
- Output Area:** Displays the result of the query: "Table dropped." followed by a execution time of "0.08 seconds".

6. Rename the EMPLOYEES2 table as EMP.

```
1      rename employees2 to emp
```

Results	Explain	Describe	Saved SQL	History
Statement processed.				

0.06 seconds

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

```
1   comment on table dept is 'Department'  
  
Results Explain Describe Saved SQL History  
  
Statement processed.  
  
0.01 seconds  
  
1   comment on table emp is 'Employee Table'  
  
Results Explain Describe Saved SQL History  
  
Statement processed.  
  
0.01 seconds
```

8. Drop the First\_name column from the EMP table and confirm it.

The screenshot shows a dark-themed SQL editor interface. At the top, there are dropdown menus for 'Language' set to 'SQL' and 'Rows' set to '10'. Below the header are standard database navigation icons: a refresh symbol, a circular arrow, a magnifying glass for search, a wrench for edit, and a refresh symbol. The main area contains a single line of SQL code: '1 alter table emp drop column first\_name'. This line is highlighted in red, indicating an error or a warning. Below the code, there is a results panel with tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected, displaying the message 'Table altered.' in white text. The time taken for the operation is also shown as '0.19 seconds'.

```
1 alter table emp drop column first_name
```

Table altered.  
0.19 seconds