

# 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.

↑ SQL Commands

Language SQL ? Rows 10 ? Clear Command Find Tables

↶ ↷ 🔍 ↗ A::

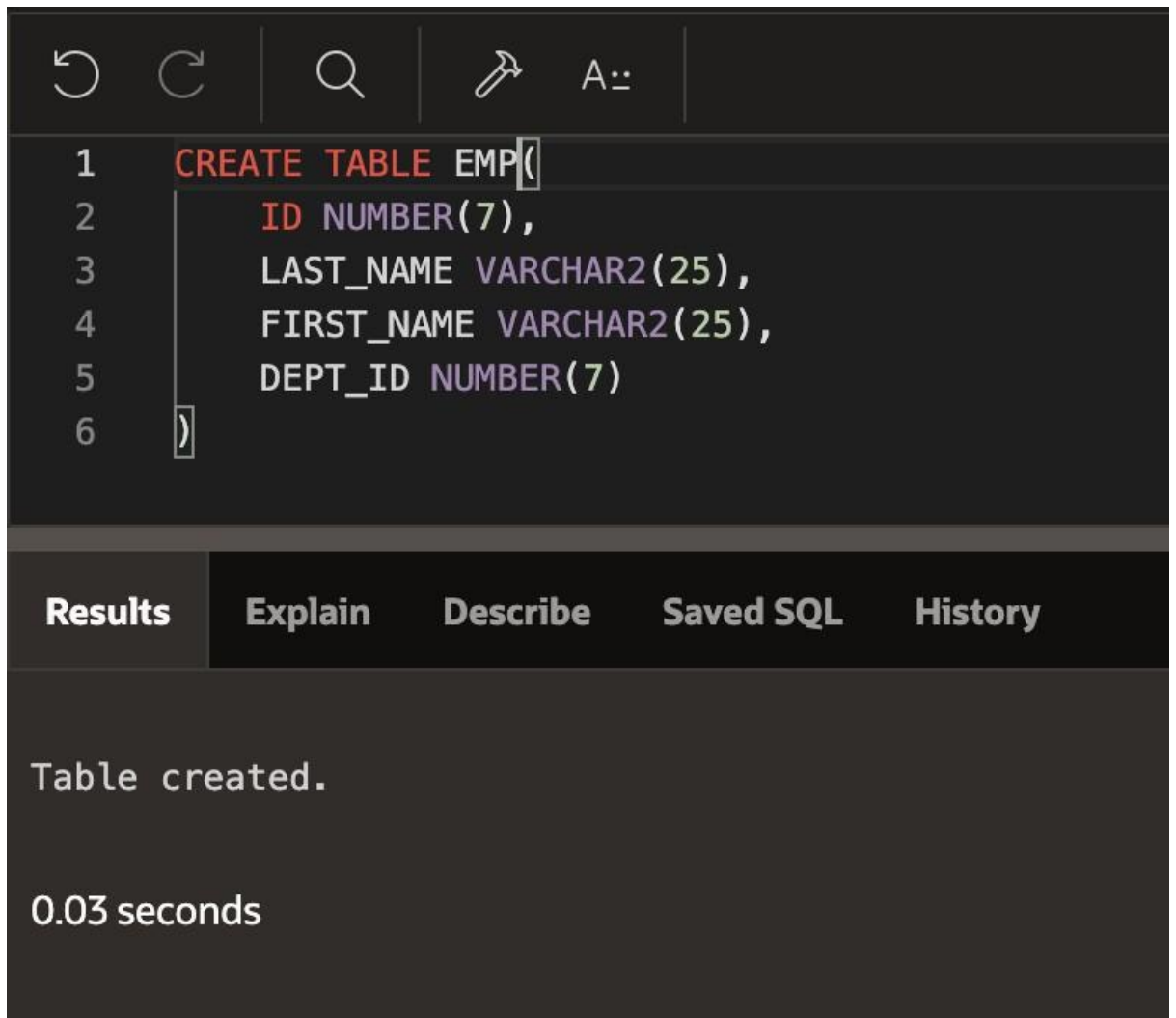
1 CREATE TABLE DEPARTMENT\_TABLE(  
2 DEPT\_ID NUMBER(6) NOT NULL,  
3 DEPT\_NAME VARCHAR(20) NOT NULL,  
4 MANAGER\_ID NUMBER(6),  
5 LOCATION\_ID NUMBER(4)  
6 );

Results Explain Describe Saved SQL History

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 SQL IDE interface. At the top, there is a toolbar with icons for undo, redo, search, and a schema icon, along with a text input field containing 'A::'. Below the toolbar, a SQL statement is entered in a text area, with line numbers 1 through 6 on the left. The statement is: `CREATE TABLE EMP(  
ID NUMBER(7),  
LAST_NAME VARCHAR2(25),  
FIRST_NAME VARCHAR2(25),  
DEPT_ID NUMBER(7)  
);`. Below the text area, there is a tabbed interface with five tabs: 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected and shows the text 'Table created.' and '0.03 seconds'.

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





**Results**   Explain   Describe   Saved SQL   History

Table created.

0.03 seconds

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

Language SQL ? Rows 10

 A::

1 **ALTER TABLE EMP MODIFY** [(LAST\_NAME VARCHAR2(50))]

**Results** Explain Describe Saved SQL History

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.

The screenshot shows a SQL IDE interface. At the top, there's a toolbar with 'Language' set to 'SQL' and 'Rows' set to '10'. Below the toolbar is a dark-themed editor with the following SQL code:

```
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 );
```

Below the editor is a tabbed interface with five tabs: 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, displaying the text 'Table created.' and '0.04 seconds'.

5. Drop the EMP table.

Language






SQL

?

Rows

10

?



1 drop table emp

Results

Explain

Describe

Saved SQL

History

Table dropped.

0.08 seconds

6. Rename the EMPLOYEES2 table as EMP.

```
1  rename employees2 to emp
```

Results	Explain	Describe	Saved SQL	History
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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



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

Language SQL ?

Rows 10 ?

 A::

1 `alter table emp drop column first_name`

Results

Explain

Describe

Saved SQL

History

Table altered.

0.19 seconds