

# DATABASE MANAGEMENT SYSTEM

## CS23332

### EXERCISE 1

### CREATING AND MANAGING TABLES

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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.

```
1  create table DEPT(  
2      ID Number(7),  
3      NAME varchar2(25)  
4  );
```

Results	Explain	Describe	Saved SQL
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Table created.

0.02 seconds

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

Language SQL ? Rows 10 ? Clear Command Find Tables

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

Results Explain Describe Saved SQL History

Object Type TABLE ? Object EMP ?

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	ID	NUMBER	-	7	0	-	✓	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	DEPT_ID	NUMBER	-	7	0	-	✓	-	-

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

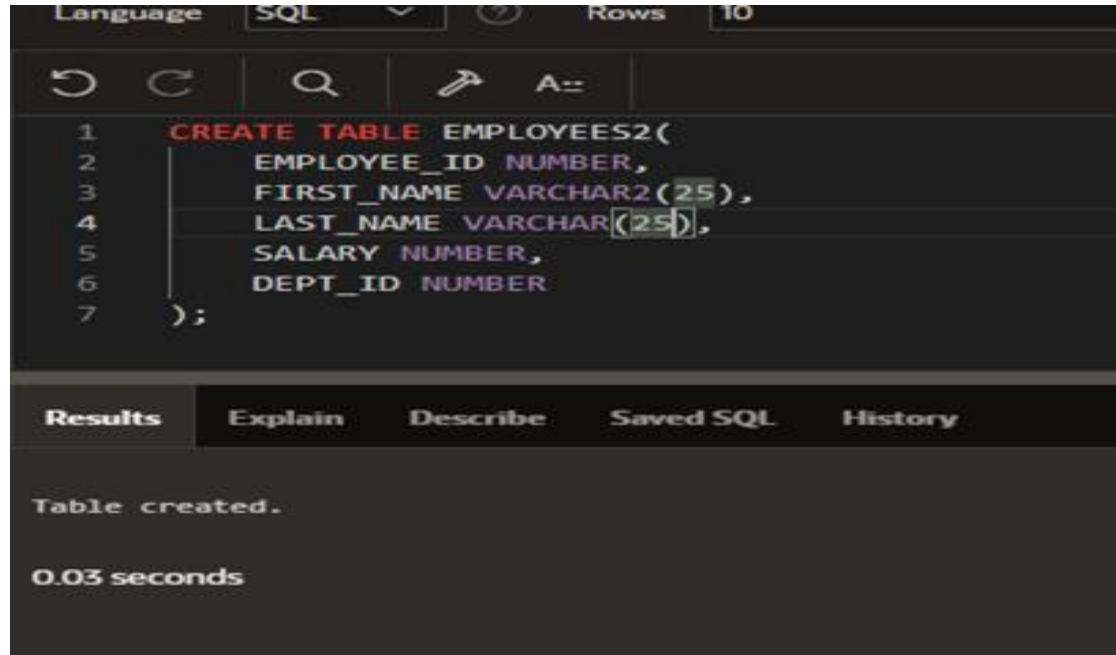
```
1 ALTER TABLE EMP MODIFY LAST_NAME VARCHAR2(50);
```

Results	Explain	Describe	Saved SQL	History
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Table altered.

0.04 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 column. Name the columns Id, First\_name, Last\_name, salary and Dept\_id respectively.

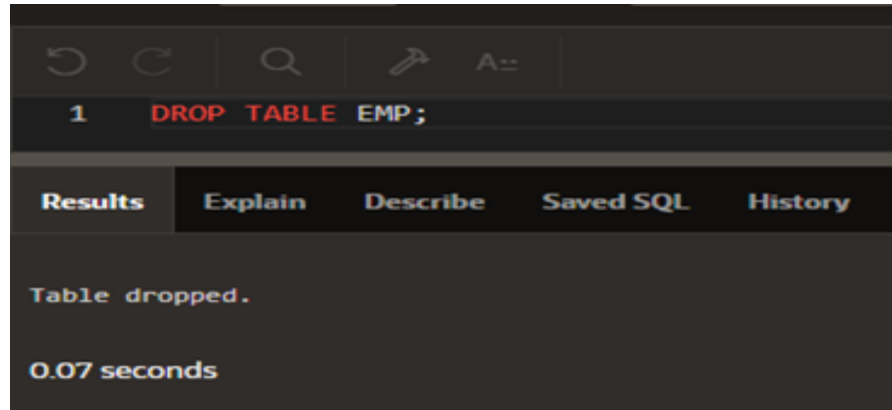


The screenshot shows a SQL IDE interface. At the top, there's a toolbar with icons for undo, redo, search, and execution. Below the toolbar, the SQL editor contains the following code:

```
1 CREATE TABLE EMPLOYEES2(  
2     EMPLOYEE_ID NUMBER,  
3     FIRST_NAME VARCHAR2(25),  
4     LAST_NAME VARCHAR(25),  
5     SALARY NUMBER,  
6     DEPT_ID NUMBER  
7 );
```

Below the editor, there's a tabbed interface with 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, displaying the message 'Table created.' and the execution time '0.03 seconds'.

5. Drop the EMP table.



A screenshot of a SQL IDE interface. At the top, there is a toolbar with icons for undo, redo, search, and other functions. Below the toolbar, a SQL statement is entered in a text area: `1 DROP TABLE EMP;`. The statement is highlighted in red. Below the text area, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected, and it displays the message 'Table dropped.' in a monospaced font. Below the message, the execution time '0.07 seconds' is shown.

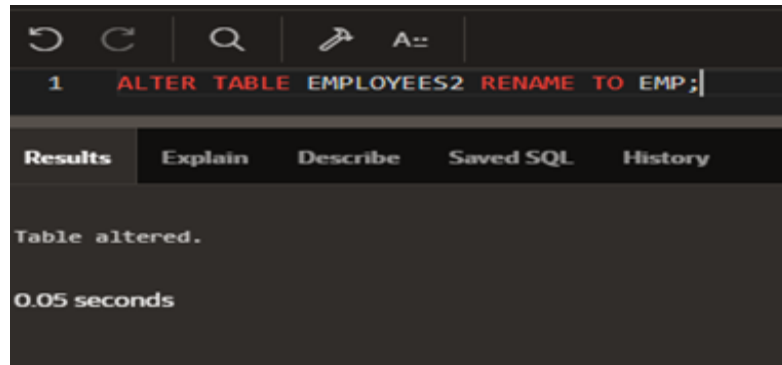
```
1 DROP TABLE EMP;
```

Results Explain Describe Saved SQL History

Table dropped.

0.07 seconds

6. Rename the EMPLOYEES2 table as EMP.



A screenshot of a SQL IDE interface. At the top, there is a toolbar with icons for undo, redo, search, and other functions. Below the toolbar, a SQL statement is entered in a text area: `1 ALTER TABLE EMPLOYEES2 RENAME TO EMP;`. The statement is highlighted in red. Below the text area, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected, and it displays the message 'Table altered.' in a monospaced font. Below the message, the execution time '0.05 seconds' is shown.

```
1 ALTER TABLE EMPLOYEES2 RENAME TO EMP;
```

Results Explain Describe Saved SQL History

Table altered.

0.05 seconds

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

Language

SQL

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Rows

10

?

Clear Command

Find Tables

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1

SELECT table\_name, comments

2

FROM user\_tab\_comments

3

WHERE table\_name IN ('DEPT', 'EMP');

4

Results

Explain

Describe

Saved SQL

History

TABLE_NAME	COMMENTS
DEPT	THIS TABLE CONTAINS DEPARTMENT DETAILS
EMP	THIS TABLE CONTAINS EMPLOYEES DETAILS

2 rows returned in 0.11 seconds

Download

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

Language SQL ? Rows 10 ? Clear Command Find Tables

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1 ALTER TABLE EMP DROP COLUMN FIRST\_NAME;

2 DESC EMP;

Results Explain Describe Saved SQL History

Object Type TABLE ? Object EMP ?

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	EMPLOYEE_ID	NUMBER	22	-	-	-	✓	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	SALARY	NUMBER	22	-	-	-	✓	-	-
	DEPT_ID	NUMBER	22	-	-	-	✓	-	-

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