

DATABASE MANAGEMENT SYSTEM

CS23332

EXERCISE 4

WRITING BASIC SQL SELECT STATEMENTS

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2. Show the structure of departments the table. Select all the data from it.

Language: SQL Rows: 10 Clear Command Find Tables

1 DESC DEPARTMENT;

Results Explain Describe Saved SQL History

Object Type: TABLE Object: DEPARTMENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPARTMENT	DEPT_ID	NUMBER	-	6	0	1	-	-	-
	DEPT_NAME	VARCHAR2	20	-	-	-	-	-	-
	MANAGER_ID	NUMBER	-	6	0	-	✓	-	-
	LOCATION_ID	NUMBER	-	4	0	-	✓	-	-

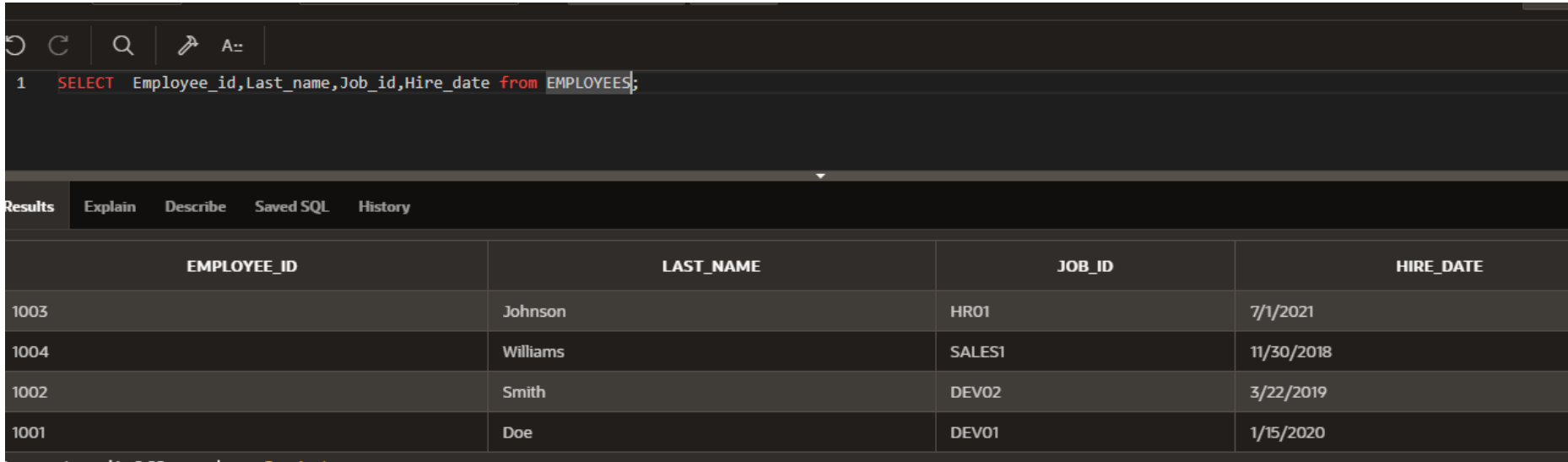
1 DESC DEPARTMENT;
2 SELECT * FROM DEPARTMENT;

Results Explain Describe Saved SQL History

DEPT_ID	DEPT_NAME	MANAGER_ID	LOCATION_ID
10	Development	1001	101
20	Human Resources	1003	102
30	Sales	1004	103
40	Finance	-	104

4 rows returned in 0.03 seconds Download

3. Create a query to display the last name, job code, hire date, and employee number for each employee, with employee number appearing first.



The screenshot shows a SQL IDE interface. At the top, there is a toolbar with icons for undo, redo, search, and a command palette. Below the toolbar, a SQL query is entered in a text area: `1 SELECT Employee_id,Last_name,Job_id,Hire_date from EMPLOYEES;`. Below the query editor, there is a tabbed interface with four tabs: 'Results', 'Explain', 'Describe', and 'History'. The 'Results' tab is selected, displaying a table with four columns: 'EMPLOYEE_ID', 'LAST_NAME', 'JOB_ID', and 'HIRE_DATE'. The table contains four rows of data.

EMPLOYEE_ID	LAST_NAME	JOB_ID	HIRE_DATE
1003	Johnson	HR01	7/1/2021
1004	Williams	SALES1	11/30/2018
1002	Smith	DEV02	3/22/2019
1001	Doe	DEV01	1/15/2020

4. Provide an alias STARTDATE for the hire date.

Language: SQL Rows: 10 Clear Command Find Tables Save Run

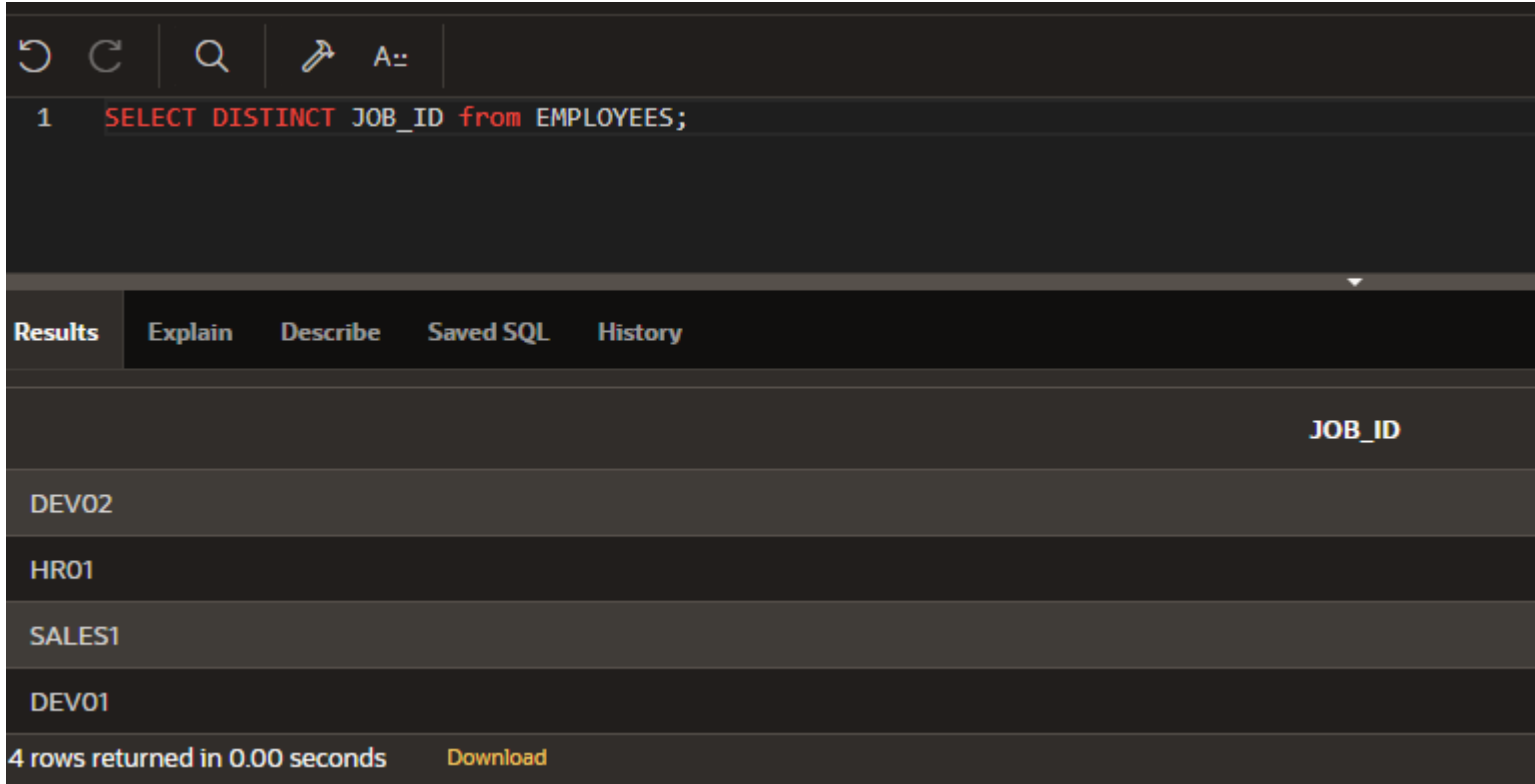
1 SELECT Employee_id, Last_name, Job_id, Hire_date AS STARTDATE from EMPLOYEES;

Results Explain Describe Saved SQL History

EMPLOYEE_ID	LAST_NAME	JOB_ID	STARTDATE
1003	Johnson	HR01	7/1/2021
1004	Williams	SALES1	11/30/2018
1002	Smith	DEV02	3/22/2019
1001	Doe	DEV01	1/15/2020

4 rows returned in 0.01 seconds Download

5. Create a query to display unique job codes from the employee table.



The screenshot shows a SQL IDE interface. At the top, there is a toolbar with icons for undo, redo, search, and a dropdown menu. Below the toolbar, a SQL query is entered in a text area:

```
1 SELECT DISTINCT JOB_ID from EMPLOYEES;
```

Below the query editor, there is a tabbed interface with four tabs: "Results", "Explain", "Describe", and "History". The "Results" tab is selected, and it displays the results of the query in a table format. The table has a single column labeled "JOB_ID" and contains four rows of data: "DEV02", "HR01", "SALES1", and "DEV01". At the bottom of the interface, a status bar indicates "4 rows returned in 0.00 seconds" and provides a "Download" link.

JOB_ID
DEV02
HR01
SALES1
DEV01

4 rows returned in 0.00 seconds [Download](#)

6. Display the last name concatenated with the job ID , separated by a comma and space, and name the column EMPLOYEE and TITLE.

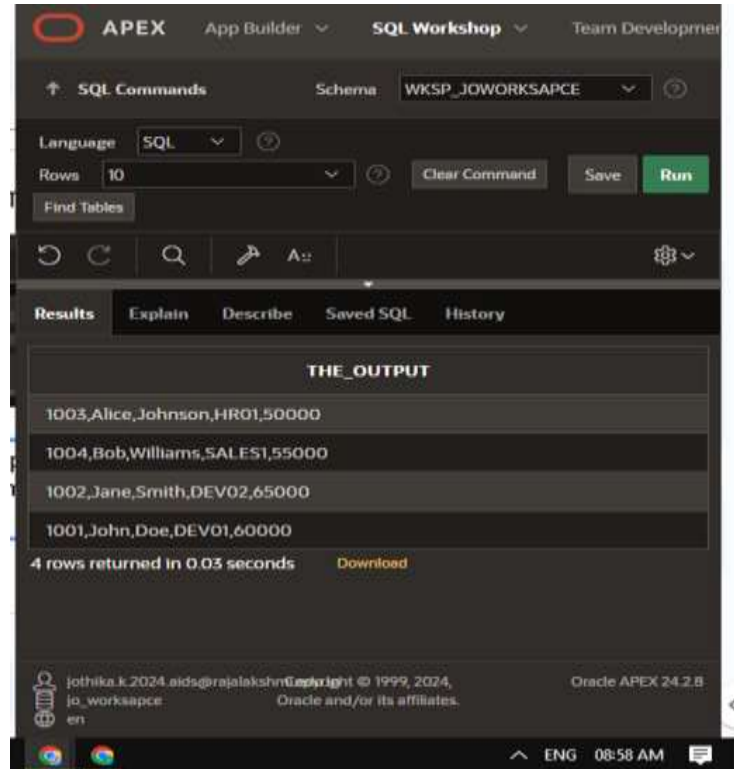


The screenshot shows a SQL query execution interface. The query is: `SELECT LAST_NAME || ',' || JOB_ID AS "EMPLOYEE AND TITLE" FROM EMPLOYEES;`. The results are displayed in a table with the following data:

EMPLOYEE AND TITLE
Jehroen,HRER
Willem,SALES
Graaf,DEV2
Dyn,DEV01

At the bottom, it indicates "4 rows returned in 0.127 seconds." and there is a "Download" button.

7. Create a query to display all the data from the employees table. Separate each column by a comma. Name the column THE_OUTPUT



The screenshot shows the Oracle APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', and 'Team Developer'. Below this, the 'SQL Commands' section is active, showing the schema 'WKSP_JOWORKSPACE'. The 'Language' is set to 'SQL', and the 'Rows' limit is '10'. There are buttons for 'Clear Command', 'Save', and 'Run'. Below the command area, there are icons for undo, redo, search, and a settings icon. The 'Results' tab is selected, displaying a table titled 'THE_OUTPUT'. The table contains four rows of data, each representing an employee record. Below the table, it states '4 rows returned in 0.03 seconds' and provides a 'Download' link. At the bottom, there is a footer with copyright information and the Oracle APEX version '24.2.8'.

THE_OUTPUT	
1003,Alice,Johnson,HR01,50000	
1004,Bob,Williams,SALES1,55000	
1002,Jane,Smith,DEV02,65000	
1001,John,Doe,DEV01,60000	

4 rows returned in 0.03 seconds [Download](#)

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