

Assignment

Assignment No. - 01

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Course Title- DBMS (Lab)

Course Code: CSE-2424

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Part 1

Test your knowledge:

1.Initiate an iSQL*Plus session using the user ID and password that are provided by the instructor.

2. iSQL*Plus commands access the database.

Answer: False

3. The following SELECT statement executes successfully:

```
SELECT last_name, job_id, salary AS Sal FROM employees;
```

Answer: True

4. The following SELECT statement executes successfully:

```
SELECT *
FROM job_grades;
```

Answer: True

5. There are four coding errors in the following statement. Can you identify them?

```
SELECT employee_id, last_name
sal x 12 ANNUAL SALARY
FROM employees;
```

Answer: Four errors are in the following-

- 1. There is no column named sal in the EMPLOYEES table, the right column name is SALARY.
- 2. A comma is missing after the LAST_NAME column in line 1.
- 3. In line 2, the multiplication operator is *, not x.
- 4. In line 2, The alias should read ANNUAL_SALARY or should be enclosed in double quotation marks. As we know, alias cannot include spaces (ANNUAL SALARY).

Part 2

You have been hired as a SQL programmer for Acme Corporation. Your first task is to create some reports based on data from the Human Resources tables

6. Your first task is to determine the structure of the DEPARTMENTS table and its contents.

Name	Null?	Туре
DEPARTMENT_ID	NOT NULL	NUMBER(4)
DEPARTMENT_NAME	NOT NULL	VARCHAR2(30)
MANAGER_ID		NUMBER(6)
LOCATION_ID		NUMBER(4)

Answer:

DESCRIBE departments

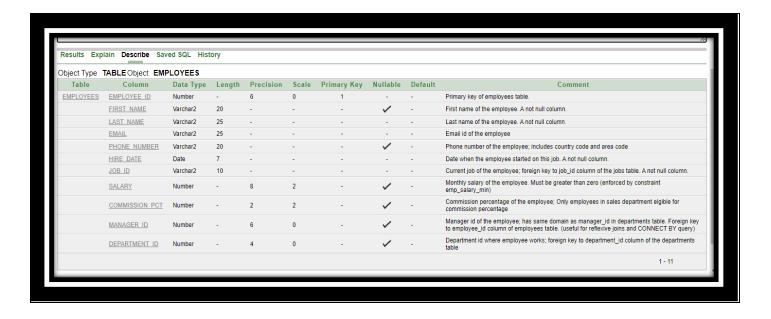
SELECT *

FROM departments;

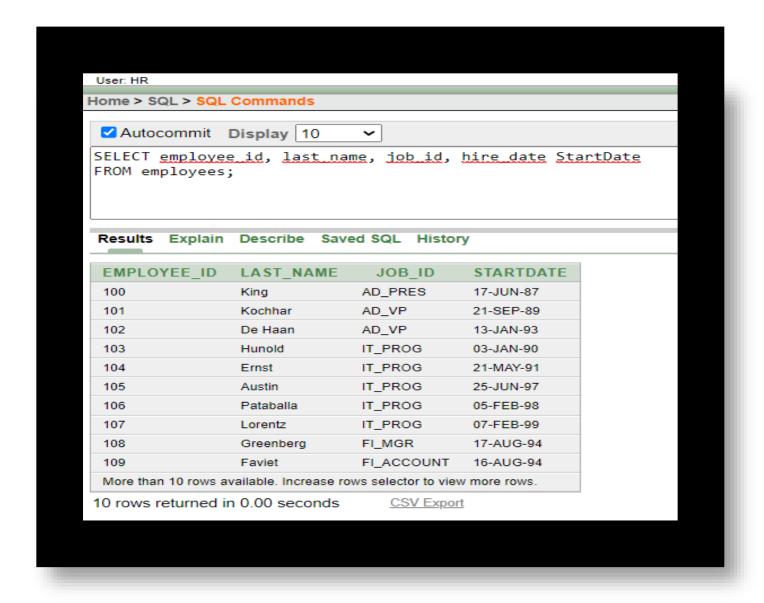
7. You need to determine the structure of the EMPLOYEES table.

Answer:

DESCRIBE employees

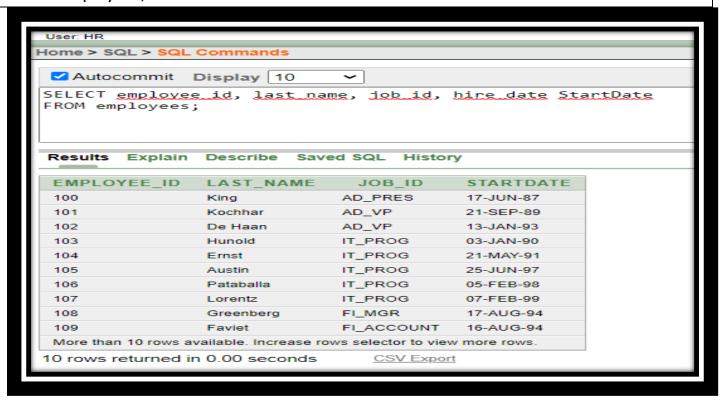


SELECT employee_id, last_name, job_id, hire_date StartDate FROM employees;



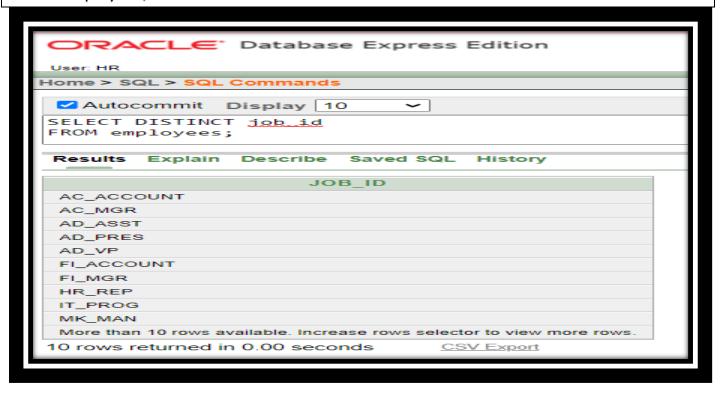
8. Test your query in the file lab 01 07.sql to ensure that it runs correctly.

SELECT employee_id, last_name, job_id, hire_date StartDate FROM employees;



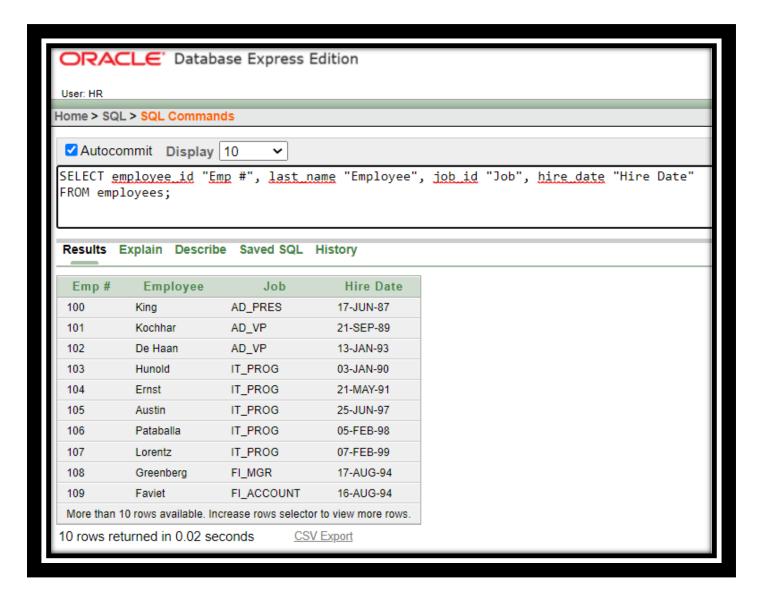
9. The HR department needs a query to display all unique job codes from the EMPLOYEES table.

SELECT DISTINCT job_id FROM employees;



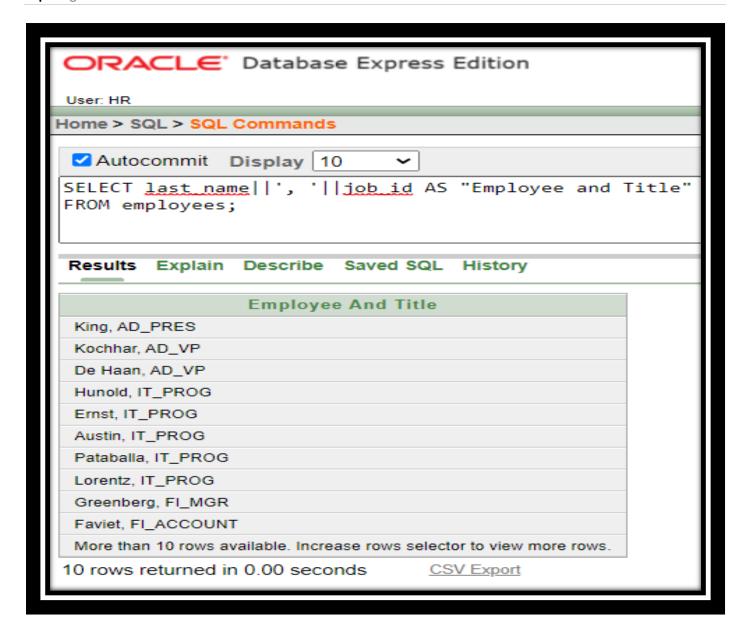
10. The HR department wants more descriptive column headings for its report on employees. Copy the statement from lab_01_07.sql to the iSQL*Plus Edit window. Name the column headings Emp #, Employee, Job, and Hire Date, respectively. Then run your query again.

```
SELECT employee_id "Emp #", last_name "Employee",
job_id "Job", hire_date "Hire Date"
FROM employees;
```



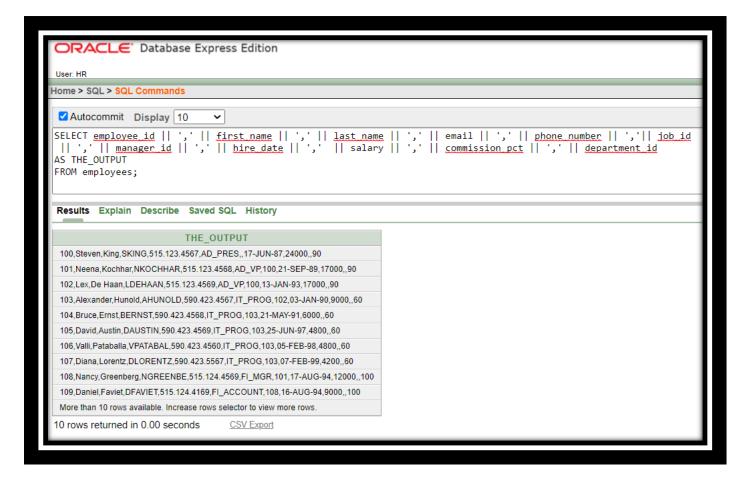
11. The HR department has requested a report of all employees and their job IDs. Display the last name concatenated with the job ID (separated by a comma and space) and name the column Employee and Title.

SELECT last_name||', '||job_id AS "Employee and Title"
FROM employees;



12. To familiarize yourself with the data in the EMPLOYEES table, create a query to display all the data from the EMPLOYEES table. Separate each column output by a comma. Name the column title THE OUTPUT.

```
SELECT employee_id || ',' || first_name || ',' || last_name || ',' || email || ',' || phone_number || ',' || job_id || ',' || manager_id || ',' || hire_date || ',' || salary || ',' || commission_pct || ',' || department_id AS THE_OUTPUT FROM employees;
```



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