

DBMS EXP-04

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Exercise : 4

1. The following statement executes successfully.

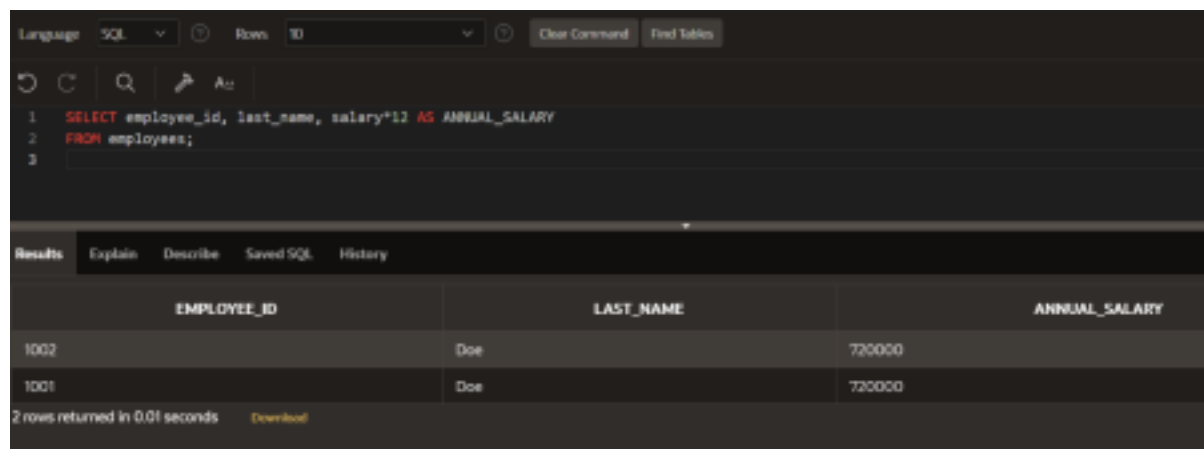
Identify the Errors

```
SELECT employee_id, last_name
```

```
sal*12 ANNUAL SALARY
```

```
FROM employees;
```

Queries

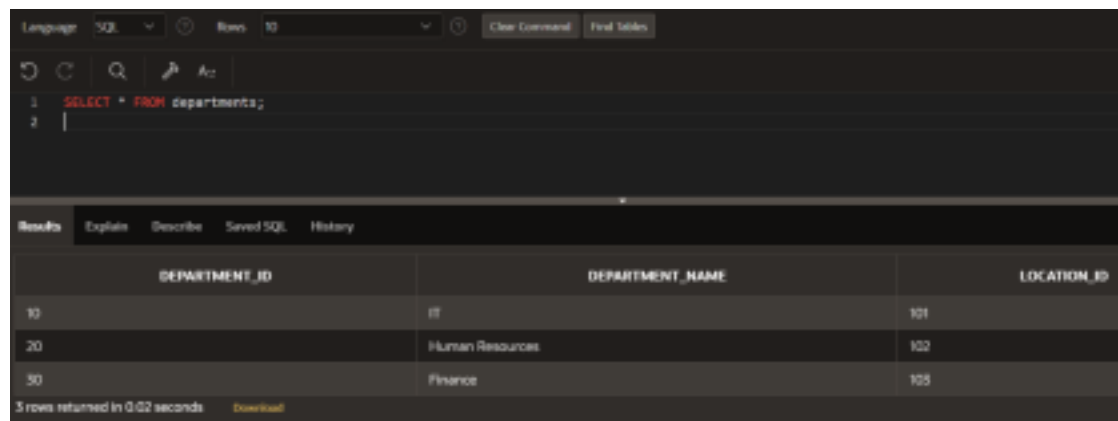


```
1 SELECT employee_id, last_name, salary*12 AS ANNUAL_SALARY
2 FROM employees;
3
```

EMPLOYEE_ID	LAST_NAME	ANNUAL_SALARY
1002	Doe	720000
1001	Doe	720000

2 rows returned in 0.01 seconds [Download](#)

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

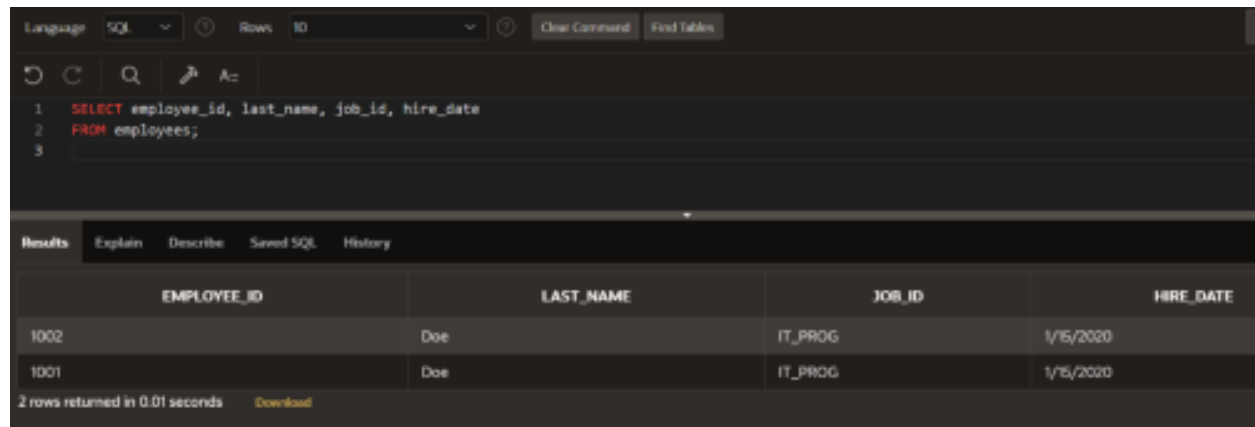


```
1 SELECT * FROM departments;
2
```

DEPARTMENT_ID	DEPARTMENT_NAME	LOCATION_ID
10	IT	101
20	Human Resources	102
30	Finance	105

3 rows returned in 0.02 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 the SQL Developer interface. The top toolbar includes 'Language' (SQL), 'Rows' (10), 'Clear Command', and 'Find Tables'. The SQL editor contains the following query:

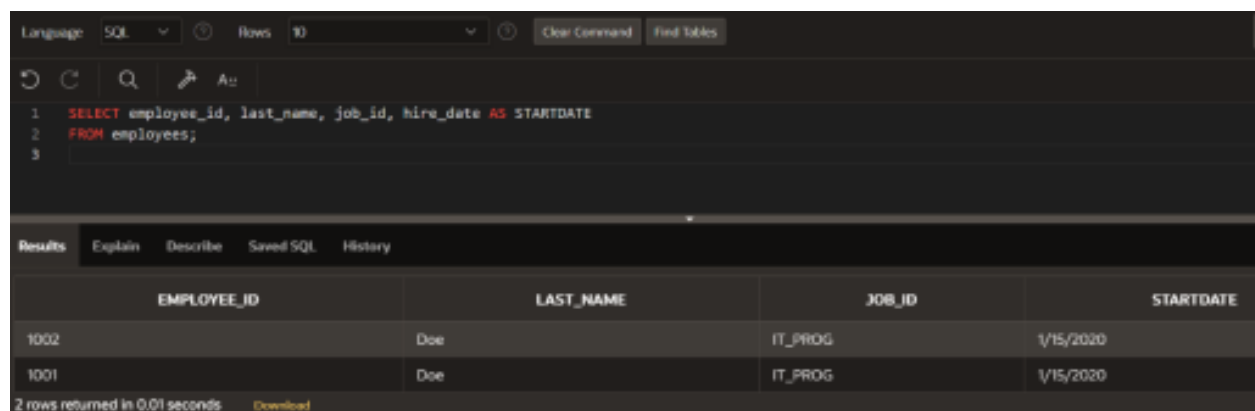
```
1 SELECT employee_id, last_name, job_id, hire_date
2 FROM employees;
3
```

The 'Results' tab is active, displaying a table with the following data:

EMPLOYEE_ID	LAST_NAME	JOB_ID	HIRE_DATE
1002	Doe	IT_PROG	1/15/2020
1001	Doe	IT_PROG	1/15/2020

2 rows returned in 0.01 seconds. Download

4. Provide an alias STARTDATE for the hire date.



The screenshot shows the SQL Developer interface. The top toolbar includes 'Language' (SQL), 'Rows' (10), 'Clear Command', and 'Find Tables'. The SQL editor contains the following query:

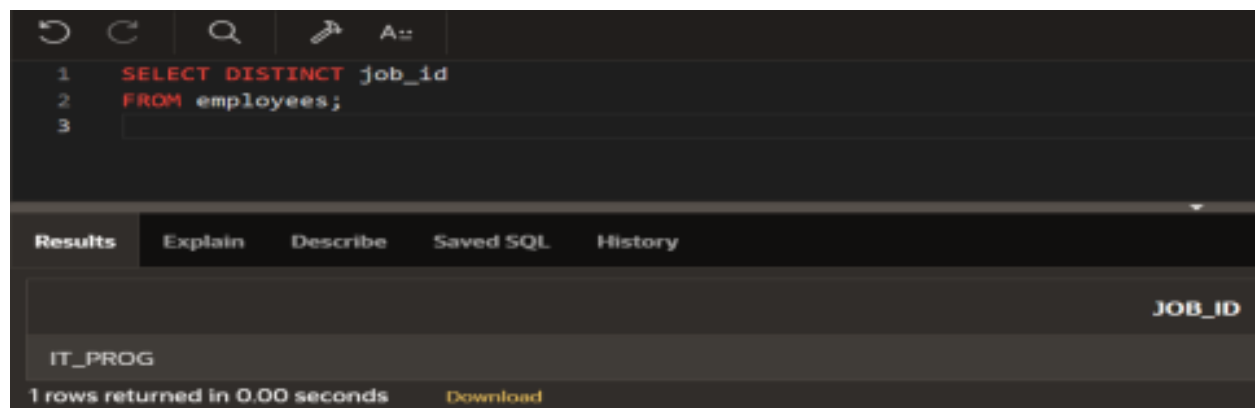
```
1 SELECT employee_id, last_name, job_id, hire_date AS STARTDATE
2 FROM employees;
3
```

The 'Results' tab is active, displaying a table with the following data:

EMPLOYEE_ID	LAST_NAME	JOB_ID	STARTDATE
1002	Doe	IT_PROG	1/15/2020
1001	Doe	IT_PROG	1/15/2020

2 rows returned in 0.01 seconds. Download

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



The screenshot shows the SQL Developer interface. The top toolbar includes 'Language' (SQL), 'Rows' (10), 'Clear Command', and 'Find Tables'. The SQL editor contains the following query:

```
1 SELECT DISTINCT job_id
2 FROM employees;
3
```

The 'Results' tab is active, displaying a table with the following data:

JOB_ID
IT_PROG

1 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 IDE interface. The top bar includes 'Language SQL', 'Rows 10', and buttons for 'Clear Command' and 'Find Tables'. Below the bar is a toolbar with icons for undo, redo, search, and formatting. The SQL editor contains the following query:

```
1 SELECT last_name || ', ' || job_id AS "EMPLOYEE AND TITLE"
2 FROM employees;
3
```

The 'Results' tab is active, showing the query results. The column header is 'EMPLOYEE AND TITLE'. Two rows of data are displayed:

EMPLOYEE AND TITLE
Doe, IT_PROG
Doe, IT_PROG

At the bottom, it states '2 rows returned in 0.01 seconds' and provides a 'Download' link.

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 a SQL IDE interface. The top bar includes 'Language SQL', 'Rows 10', and buttons for 'Clear Command' and 'Find Tables'. Below the bar is a toolbar with icons for undo, redo, search, and formatting. The SQL editor contains the following query:

```
1 SELECT employee_id || ', ' ||
2 first_name || ', ' ||
3 last_name || ', ' ||
4 email || ', ' ||
5 phone_number || ', ' ||
6 hire_date || ', ' ||
7 job_id || ', ' ||
8 salary || ', ' ||
9 commission_pct || ', ' ||
10 manager_id || ', ' ||
11 department_id AS THE_OUTPUT
12 FROM employees;
13
```

The 'Results' tab is active, showing the query results. The column header is 'THE_OUTPUT'. Two rows of data are displayed:

THE_OUTPUT
1002,Khan,Doe,Khan.doe@example.com,2234567890,1/15/2020,IT_PROG,60000,1,1000,10
1001,John,Doe,John.doe@example.com,1234567890,1/15/2020,IT_PROG,60000,1,1000,10

At the bottom, it states '2 rows returned in 0.01 seconds' and provides a 'Download' link.