

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

The screenshot shows a SQL query being run in a database interface. The query is:

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

The results table has three columns: EMPLOYEE_ID, LAST_NAME, and ANNUAL_SALARY. The data returned is:

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.

The screenshot shows a SQL query being run in a database interface. The query is:

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

The results table has three columns: DEPARTMENT_ID, DEPARTMENT_NAME, and LOCATION_ID. The data returned is:

DEPARTMENT_ID	DEPARTMENT_NAME	LOCATION_ID
10	IT	101
20	Human Resources	102
30	Finance	103

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 a SQL query editor with the following details:

- Language:** SQL
- Rows:** 10
- Clear Command** and **Find Tables** buttons

The query entered is:

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

The results tab is selected, displaying the following table:

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

Below the table, it says "2 rows returned in 0.01 seconds" and has a "Download" link.

4. Provide an alias STARTDATE for the hire date.

The screenshot shows a SQL query editor with the following details:

- Language:** SQL
- Rows:** 10
- Clear Command** and **Find Tables** buttons

The query entered is:

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

The results tab is selected, displaying the following table:

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

Below the table, it says "2 rows returned in 0.01 seconds" and has a "Download" link.

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

The screenshot shows a SQL query editor with the following details:

- Language:** SQL
- Rows:** 10
- Clear Command** and **Find Tables** buttons

The query entered is:

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

The results tab is selected, displaying the following table:

JOB_ID
IT_PROG

Below the table, it says "1 rows returned in 0.00 seconds" and has a "Download" link.

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 interface with the following details:

- Language:** SQL
- Rows:** 10
- Query:**

```
1 SELECT last_name || ',' || job_id AS "EMPLOYEE AND TITLE"
2 FROM employees;
3
```
- Results:** EMPLOYEE AND TITLE
- Output:**

EMPLOYEE AND TITLE
Doe, IT_PROG
Doe, IT_PROG

2 rows returned in 0.01 seconds Download

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 query interface with the following details:

- Language:** SQL
- Rows:** 10
- 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
```
- Results:** THE_OUTPUT
- Output:**

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

2 rows returned in 0.01 seconds Download