NAME: Aravindan S G **REG NO: 230701031**

EXP NO :03

DATE :10/08/2024

WRITING BASIC SQL SELECT STATEMENTS.

Find the Solution for the following:

True OR False

1. The following statement executes successfully.

Identify the Errors

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

Queries

```
SELECT employee_id, last_name, sal*12 AS ANNUAL_SALARY FROM
employees;
```

Results | Explain | Describe | Saved SQL | History

EMPLOYEE_ID	LAST_NAME	ANNUAL_SALARY
1	Smith	72000
2	Johnson	54000
3	Williams	90000
4	Jones	66000
5	Brown	96000

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

```
DESCRIBE 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 - 4

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

SELECT employee_id, last_name, job_code, hire_date FROM employees;

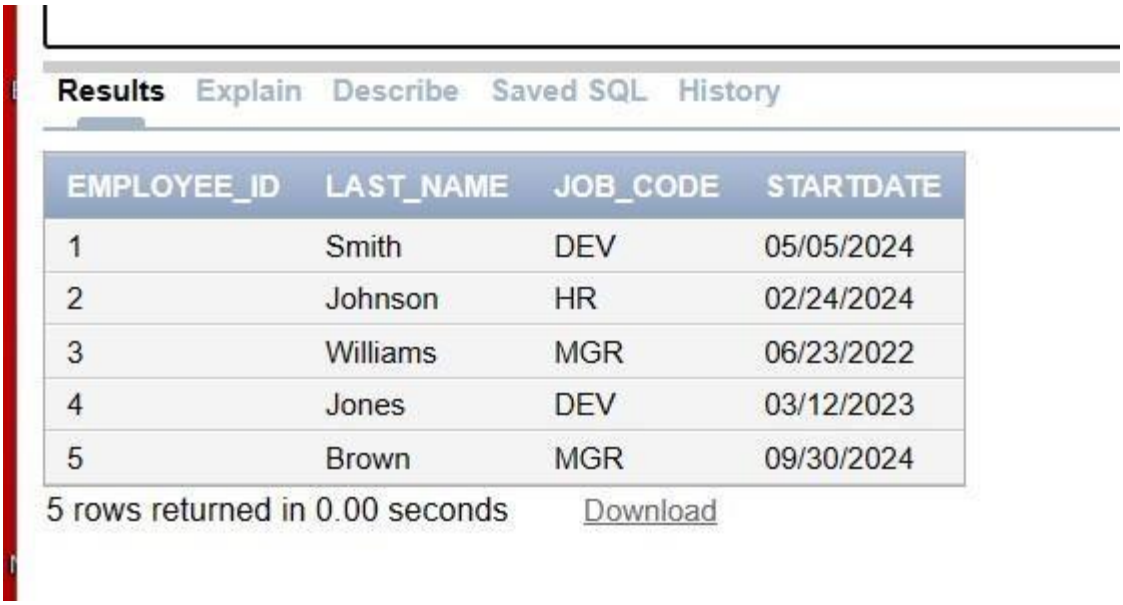
Results Explain Describe Saved SQL History

EMPLOYEE_ID	LAST_NAME	JOB_CODE	HIRE_DATE
1	Smith	DEV	05/05/2024
2	Johnson	HR	02/24/2024
3	Williams	MGR	06/23/2022
4	Jones	DEV	03/12/2023
5	Brown	MGR	09/30/2024

5 rows returned in 0.01 seconds Download

4. Provide an alias STARTDATE for the hire date.

SELECT employee_id, last_name, job_id, hire_date AS STARTDATE FROM employees;



Results Explain Describe Saved SQL History

EMPLOYEE_ID	LAST_NAME	JOB_CODE	STARTDATE
1	Smith	DEV	05/05/2024
2	Johnson	HR	02/24/2024
3	Williams	MGR	06/23/2022
4	Jones	DEV	03/12/2023
5	Brown	MGR	09/30/2024

5 rows returned in 0.00 seconds Download

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

```
SELECT DISTINCT job_code
FROM employees;
```

Results Explain Describe

JOB_CODE
DEV
HR
MGR

3 rows returned in 0.00 secon

6. 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_code AS EMPLOYEE_AND_TITLE  FROM
employees;
```

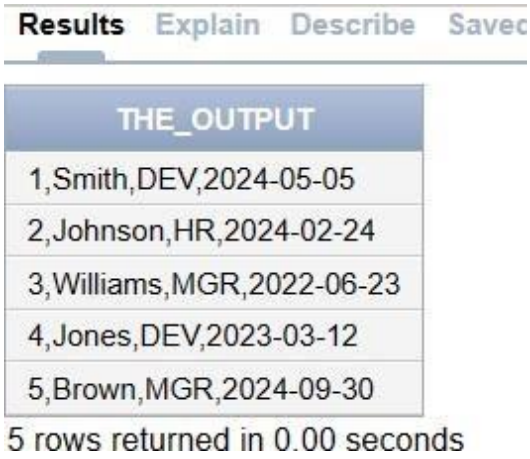
Results | Explain | Describe | Sav

EMPLOYEE_AND_TITLE
Smith, DEV
Johnson, HR
Williams, MGR
Jones, DEV
Brown, MGR

5 rows returned in 0.00 seconds

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

```
SELECT employee_id || ',' || last_name || ',' || job_code || ',' || TO_CHAR(hire_date, 'YYYY-MM-
DD') AS THE_OUTPUT
FROM employees;
```



Results | Explain | Describe | Savec

THE_OUTPUT
1,Smith,DEV,2024-05-05
2,Johnson,HR,2024-02-24
3,Williams,MGR,2022-06-23
4,Jones,DEV,2023-03-12
5,Brown,MGR,2024-09-30

5 rows returned in 0.00 seconds