Ex.No.: 3		WRITING BASIC SQL SELECT STATEMENTS
Date:	30/7/24	

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;
```

False ->Corrected Query and Output

```
Select employee_id,last_name,salary*12 AS "Annual Salary" from Employees;
```

EMPLOYEE_ID	LAST_NAME	Annual Salary
101	Doe	72000
102	Smith	54000
103	Johnson	86400
104	Davis	60000
105	Miller	74400
106	Wilson	67200
107	Brown	69600
108	Taylor	55200
109	AUSTIN	85200
110	Thomas	63600

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

DESC department;

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

Select * from Department;

DEPT_ID	DEPT_NAME	MANAGER_ID	LOCATION_ID
10	Admin	101	1000
20	Marketing	102	1001
30	Purchasing	103	1002
40	HR	104	1003
50	IT	105	1004
60	Sales	106	1005
70	Customer Service	107	1006
80	Accounting	108	1007
90	R&D	109	1008
100	Legal	110	1009

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_id, hire_date
FROM employees;

EMPLOYEE_ID	LAST_NAME	JOB_ID	HIRE_DATE
101	Doe	IT_PROG	01/15/2020
102	Smith	HR_REP	02/20/2019
103	Johnson	SA_MAN	05/30/2021
104	Davis	AC_ACCOUNT	10/10/2020
105	Miller	MK_MAN	07/25/2018
106	Wilson	SA_REP	03/12/2022
107	Brown	IT_PROG	11/05/2017
108	Taylor	HR_REP	12/15/2019
109	AUSTIN	AC_MGR	08/22/2021
110	Thomas	MK_REP	04/01/2020

4. Provide an alias STARTDATE for the hire date.

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

EMPLOYEE_ID	LAST_NAME	JOB_ID	STARTDATE
101	Doe	IT_PROG	01/15/2020
102	Smith	HR_REP	02/20/2019
103	Johnson	SA_MAN	05/30/2021
104	Davis	AC_ACCOUNT	10/10/2020
105	Miller	MK_MAN	07/25/2018
106	Wilson	SA_REP	03/12/2022
107	Brown	IT_PROG	11/05/2017
108	Taylor	HR_REP	12/15/2019
109	AUSTIN	AC_MGR	08/22/2021
110	Thomas	MK_REP	04/01/2020

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

SELECT DISTINCT job_id FROM employees;

JOB_ID
IT_PROG
AC_ACCOUNT
AC_MGR
SA_MAN
MK_MAN
SA_REP
MK_REP
HR_REP

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_id AS "EMPLOYEE and TITLE" FROM employees;

EMPLOYEE and TITLE
Doe, IT_PROG
Smith, HR_REP
Johnson, SA_MAN
Davis, AC_ACCOUNT
Miller, MK_MAN
Wilson, SA_REP
Brown, IT_PROG
Taylor, HR_REP
AUSTIN, AC_MGR
Thomas, MK_REP

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_id || ', ' || hire_date AS THE_OUTPUT FROM employees;

THE_OUTPUT
101, Doe, IT_PROG, 01/15/2020
102, Smith, HR_REP, 02/20/2019
103, Johnson, SA_MAN, 05/30/2021
104, Davis, AC_ACCOUNT, 10/10/2020
105, Miller, MK_MAN, 07/25/2018
106, Wilson, SA_REP, 03/12/2022
107, Brown, IT_PROG, 11/05/2017
108, Taylor, HR_REP, 12/15/2019
109, AUSTIN, AC_MGR, 08/22/2021
110, Thomas, MK_REP, 04/01/2020