

Ex.No.: 3

WRITING BASIC SQL SELECT STATEMENTS

Date: 10/08/2024

Find the Solution for the following:

True OR False

1. The following statement executes successfully.

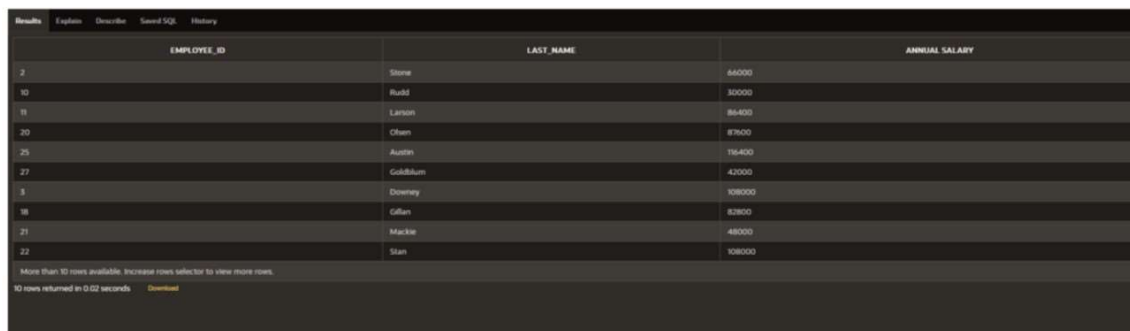
Identify the Errors

```
SELECT employee_id, last_name sal*12  
ANNUALSALARY FROM employees;
```

FALSE

The columns in select statement should be separated by commas and the column alias should be given by using a keyword "as"

```
SELECT employee_id, last_name, salary*12 as "ANNUAL SALARY"  
FROM employees;
```



EMPLOYEE_ID	LAST_NAME	ANNUAL SALARY
2	Stone	64000
10	Rudt	30000
19	Larson	84400
20	Chen	87600
25	Austin	116400
27	Gutierrez	42000
3	Demoney	108000
18	Giles	82800
21	Mackay	48000
22	Stam	108000

More than 10 rows available. Increase rows selector to view more rows.
10 rows returned in 0.02 seconds [Download](#)

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

Desc employees;

Results

Explain

Describe

Saved SQL

History

Object Type

TABLE

Object

EMPLOYEES

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEES	EMPLOYEE_ID	NUMBER	-	6	0	1	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	✓	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	-	-	-
	EMAIL	VARCHAR2	25	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	20	-	-	-	✓	-	-
	HIRE_DATE	DATE	7	-	-	-	-	-	-
	JOB_ID	VARCHAR2	10	-	-	-	-	-	-
	SALARY	NUMBER	-	8	2	-	✓	-	-
	COMMISSION_PCT	NUMBER	-	2	2	-	✓	-	-
	MANAGER_ID	NUMBER	-	6	0	-	✓	-	-
	DEPARTMENT_ID	NUMBER	-	4	0	-	✓	-	-

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 , job_id , last_name , hire_date from employees;`

Results	Explain	Describe	Saved SQL	History
EMPLOYEE_ID	JOB_ID	LAST_NAME	HIRE_DATE	
2	#s002	Stone	11/06/1992	
10	#p010	Rudd	04/06/1989	
11	#s011	Larson	10/01/1989	
20	#s020	Chen	02/16/1989	
25	#c025	Austin	05/14/1989	
27	#g027	Guthrie	10/22/1992	
5	#s005	Deerney	04/04/1985	
16	#g016	Galen	11/28/1987	
21	#s021	Mackie	09/21/1978	
23	#s022	Stan	08/11/1982	

More than 10 rows available. Increase rows selector to view more rows.
10 rows returned in 0.01 seconds [Download](#)

4) Provide an alias STARTDATE for the hire date. `select hire_date as "STARTDATE" from employees;`

Results		Explain	Describe	Save SQL	History
		STARTDATE			
11/06/1990					
04/06/1989					
10/01/1989					
02/16/1989					
05/14/1989					
10/22/1992					
04/04/1985					
11/28/1987					
09/23/1978					
08/15/1982					
More than 10 rows available. Increase rows selector to view more rows.					
		10 rows returned in 0.04 seconds Download			

5) Create a query to display unique job codes from the employee table. [select](#)

[distinct\(job_id\) from employees;](#)

Results		Explain	Describe	Save SQL	History
		JOB_ID			
#uc005					
#mv006					
#th004					
#th009					
#su004					
#tr030					
#kg018					
#ka028					
#jb001					
#ch007					
More than 10 rows available. Increase rows selector to view more rows.					
		10 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.

[select last_name || ' ' || ',' || ' ' || job_id as "EMPLOYEE AND TITLE" from employees;](#)

Results	Explain	Describe	Save SQL	History
EMPLOYEE AND TITLE				
Stone, #es002				
Rudd, #pr010				
Larson, #sl011				
Olsen, #es020				
Austin, #cb025				
Goldblum, #gg027				
Downey, #rd003				
Gillan, #kg018				
Mackie, #am021				
Stan, #ss022				
More than 10 rows available. Increase rows selector to view more rows.				

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 || ',' || first_name || ',' || last_name || ',' || email || ',' ||
phone_number || ',' || hire_date || ',' || job_id || ',' || salary || ',' ||
commission_pct || ',' || manager_id || ',' || department_id as
"THE_OUTPUT"
from employees;
```

Results	Explain	Describe	Save SQL	History
THE_OUTPUT				
2, Emma, Stone, emma002@gmail.com, 9840237533, 11/06/1990, #es002, 5500, 35, 200, 15				
10, Paul, Rudd, paul010@gmail.com, 9840237521, 04/06/1969, #pr010, 2500, 36, 250, 30				
11, Irie, Larson, brie011@gmail.com, 9840237522, 10/01/1989, #sl011, 7200, 38, 400, 35				
20, Elizabeth, Olsen, elizabeth020@gmail.com, 9840237531, 02/16/1989, #es020, 7300, 32, 800, 90				
25, Cate, Austin, cate025@gmail.com, 9840237536, 05/14/1969, #cb025, 9700, 31, 100, 55				
27, Jeff, Goldblum, jeff027@gmail.com, 9840237538, 10/22/1952, #gg027, 3500, 33, 200, 75				
3, Robert, Downey, robert003@gmail.com, 9840237514, 04/04/1965, #rd003, 9000, 2, 350, 40				
18, Karen, Gillan, karen018@gmail.com, 9840237529, 11/28/1987, #kg018, 6900, 36, 600, 95				
21, Anthony, Mackie, anthony021@gmail.com, 9840237532, 09/23/1978, #am021, 4000, 33, 850, 30				
22, Sebastian, Stan, sebastian022@gmail.com, 9840237535, 08/13/1982, #ss022, 9000, 34, 550, 75				
More than 10 rows available. Increase rows selector to view more rows.				
10 rows returned in 0.01 seconds Download				