

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 ANNUAL SALARY
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	66000
10	Rudd	30000
11	Larson	84000
20	Olson	87000
25	Austin	116400
27	Gallblum	42000
3	Doremy	108000
18	Giffen	82800
21	Mackie	48000
22	Stan	108000

More than 10 rows available. Increase rows selector to view more rows.
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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	#es002	Stone	11/06/1990	
10	#pr010	Rudd	04/06/1989	
11	#s011	Larson	10/01/1989	
20	#es020	Olsen	02/16/1989	
25	#s025	Austin	05/14/1989	
27	#ag027	Goldblum	10/22/1992	
3	#s003	Downey	04/04/1965	
18	#ag018	Gillan	11/28/1987	
21	#am021	Mackie	09/21/1978	
22	#es022	Stan	08/11/1982	

More than 10 rows available. Increase rows selector to view more rows.

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4) Provide an alias STARTDATE for the hire date.

```
select hire_date as "STARTDATE" from employees;
```

STARTDATE
11/06/1990
04/04/1989
10/01/1989
02/14/1989
05/14/1989
10/22/1992
04/04/1985
11/28/1987
09/25/1978
08/15/1982
More than 10 rows available. Increase rows selector to view more rows.
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5) Create a query to display unique job codes from the employee table.

```
select distinct(job_id) from employees;
```

JOB_ID
#cl005
#mr006
#bg024
#ch009
#sa004
#sw030
#kg018
#sa028
#j0001
#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;
```

EMPLOYEE AND TITLE
Stone , #sw002
Rudd , #pr010
Larson , #sk018
Olsen , #sw030
Austin , #sa025
Gallagher , #kg027
Deaney , #ch003
Giles , #kg018
Mackie , #am021
Sten , #sa022
More than 10 rows available. Increase rows selector to view more rows.
10 rows returned in 0.00 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.

```
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	9840237513	11/06/1990	#ew002	3000	15	200	15
10	Paul	Rudd	paul010@gmail.com	9840237521	04/06/1969	#pr010	2500	16	250	30
11	Brie	Larson	brie019@gmail.com	9840237522	10/01/1989	#bl019	3200	18	400	35
20	Elizabeth	Olson	elizabeth020@gmail.com	9840237531	02/16/1989	#eo020	7300	12	800	90
25	Cate	Austin	cate025@gmail.com	9840237536	05/14/1969	#ca025	9700	11	100	55
27	Jeff	Goldblum	jeff027@gmail.com	9840237538	10/22/1952	#jg027	3300	15	200	75
3	Robert	Downey	robert003@gmail.com	9840237504	04/04/1965	#rd003	9000	2	350	40
16	Karen	Gillan	karen016@gmail.com	9840237529	11/28/1987	#kg016	6900	16	400	95
21	Anthony	Mackie	anthony021@gmail.com	9840237532	09/23/1978	#am021	4000	15	850	30
22	Sebastian	Stan	sebastian022@gmail.com	9840237533	08/10/1982	#ss022	9000	14	550	75
More than 10 rows available. Increase rows selector to view more rows.										
10 rows returned in 0.01 seconds Download										