

EXPERIMENT NO : 3

DATE : 14-07-24

REGISTER NO : 231501057

NAME : HARISH KUMAR V

WRITING BASIC SQL SELECT STATEMENT

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	84400
20	Olsen	87600
25	Austin	116400
27	Goldblum	42000
3	Downey	108000
18	Gillan	82800
21	Mackie	48000
22	Stan	108000

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	-	✓	-	-

231501154@rajalakshmi.edu.in

shriram154

en

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3. Create a query to display the last name, job code, hire date, and employee number foreach 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	#pi010	Rudd	04/06/1969	
11	#bi011	Larson	10/01/1989	
20	#eo020	Olsen	02/16/1989	
25	#cb025	Austin	05/14/1969	
27	#jg027	Goldblum	10/22/1952	
3	#rd003	Downey	04/04/1965	
18	#kg018	Gillan	11/28/1987	
21	#am021	Mackie	09/23/1978	
22	#si022	Stan	08/13/1982	

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				
04/04/1969				
10/01/1989				
02/16/1989				
05/14/1989				
10/22/1952				
04/04/1965				
11/28/1987				
09/25/1978				
08/15/1982				
More than 10 rows available. Increase rows selector to view more rows.				
10 rows returned in 0.04 seconds Download				
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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				
#ce005				
#mr006				
#th024				
#th009				
#sa004				
#tw030				
#kg018				
#sa028				
#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 , #bl011				
Olsen , #eo020				
Austin , #ch025				
Goldblum , #ig027				
Downey , #nd003				
Gillan , #kg018				
Mackie , #am021				
Stan , #ss022				
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;
```

THE_OUTPUT									
2	Emma	Stone	emma002@gmail.com	9840237513	11/06/1990	#es002	5500	15	200
10	Paul	Rudd	paul010@gmail.com	9840237521	04/06/1969	#pr010	2500	16	250
11	Brie	Larson	brie011@gmail.com	9840237522	10/01/1989	#bl011	7200	18	400
20	Elizabeth	Olson	elizabeth020@gmail.com	9840237531	02/16/1989	#eo020	7300	12	800
25	Cate	Austin	cate025@gmail.com	9840237536	05/14/1969	#ch025	9700	11	100
27	Jeff	Goldblum	jeff027@gmail.com	9840237538	10/22/1952	#jg027	3500	13	200
3	Robert	Downey	robert003@gmail.com	9840237514	04/04/1965	#rd003	9000	2	350
18	Karen	Gillan	karen018@gmail.com	9840237529	11/28/1987	#kg018	6900	16	600
21	Anthony	Mackie	anthony021@gmail.com	9840237532	09/23/1978	#am021	4000	13	850
22	Sebastian	Stan	sebastian022@gmail.com	9840237533	08/11/1982	#ss022	9000	14	550
More than 10 rows available. Increase rows selector to view more rows.									
10 rows returned in 0.01 seconds Download									