

Ex.No.: 3		WRITING BASIC SQL SELECT STATEMENTS
Date:	30/07/2024	

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;

Results	Explain	Describe	Save SQL	History
EMPLOYEE_ID	LAST_NAME		ANNUAL SALARY	
2	Stone		66000	
10	Rudd		30000	
11	Larson		86400	
20	Olson		87600	
25	Austin		116400	
27	Goldblum		43000	
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;

ResultsExplainDescribeSaved SQLHistory

Object TypeTABLEObjectEMPLOYEES

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	-	✓	-	-

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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;
```

EMPLOYEE_ID	JOB_ID	LAST_NAME	HIRE_DATE
2	#es002	Stone	11/06/1990
10	#pr010	Rudd	04/06/1969
11	#bl011	Lanson	10/01/1989
20	#ee020	Ohan	02/14/1989
25	#cb025	Austin	05/14/1969
27	#lg027	Goldblum	10/22/1952
5	#rd005	Downey	04/04/1965
18	#kg018	Gilan	11/28/1987
21	#am021	Mackie	09/23/1978
22	#ss022	Stan	08/13/1982

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

STARTDATE
11/06/1990
04/06/1969
10/01/1989
02/14/1989
05/14/1969
10/22/1952
04/04/1965
11/28/1987
09/23/1978
08/13/1982

- 5) Create a query to display unique job codes from the employee table. `select distinct(job_id) from employees;`

JOB_ID
#cs005
#mv006
#th024
#th009
#sa004
#tw030
#kg018
#ku028
#p001
#ch007

- 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;
```

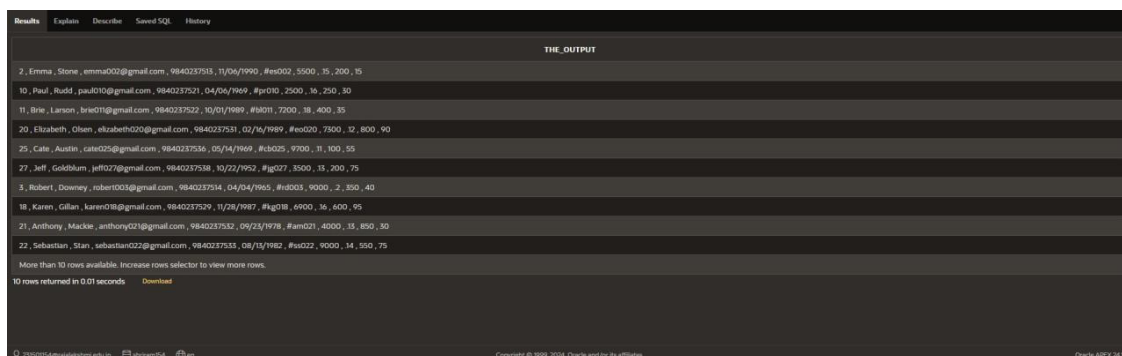


The screenshot shows a SQL query result in a web interface. The title bar reads "EMPLOYEE AND TITLE". The results are displayed in a table with alternating light and dark rows. The data shown is the last name followed by a space, a comma, another space, and the job ID. At the bottom, it indicates "More than 10 rows available. Increase rows selector to view more rows." and "10 rows returned in 0.00 seconds" with a "Download" button.

EMPLOYEE AND TITLE
Stone , #sc002
Rudd , #pr010
Larson , #br011
Olsen , #ec020
Austin , #cs025
Goldkultum , #ag027
Downey , #rd003
Gillan , #kg018
Mackie , #am021
Stan , #su022

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 screenshot shows a SQL query result in a web interface. The title bar reads "THE_OUTPUT". The results are displayed in a table with alternating light and dark rows. Each row contains a single string representing all employee data concatenated with commas. At the bottom, it indicates "More than 10 rows available. Increase rows selector to view more rows." and "10 rows returned in 0.01 seconds" with a "Download" button.

THE_OUTPUT
2, Emma, Stone, emma002@gmail.com, 9840237513, 11/06/1990, #es002, 5500, 15, 200, 15
10, Paul, Rudd, paul010@gmail.com, 9840237521, 04/06/1969, #pr010, 2500, 16, 250, 30
11, Brie, Larson, brie011@gmail.com, 9840237522, 10/01/1989, #br011, 7200, 18, 400, 35
20, Elizabeth, Olsen, elizabeth020@gmail.com, 9840237531, 02/16/1989, #ec020, 7500, 12, 800, 90
25, Kate, Austin, kate025@gmail.com, 9840237536, 05/14/1969, #cs025, 9700, 11, 100, 55
27, Jeff, Goldkultum, jeff027@gmail.com, 9840237538, 10/22/1952, #ag027, 3500, 15, 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, 16, 600, 95
21, Anthony, Mackie, anthony021@gmail.com, 9840237532, 06/24/1978, #am021, 4000, 15, 850, 30
22, Sebastian, Stan, sebastian022@gmail.com, 9840237533, 08/13/1982, #su022, 9000, 14, 550, 75