Ex.No.: 3

WRITING BASIC SQL SELECT STATEMENTS

Find the Solution for the following:

True OR False

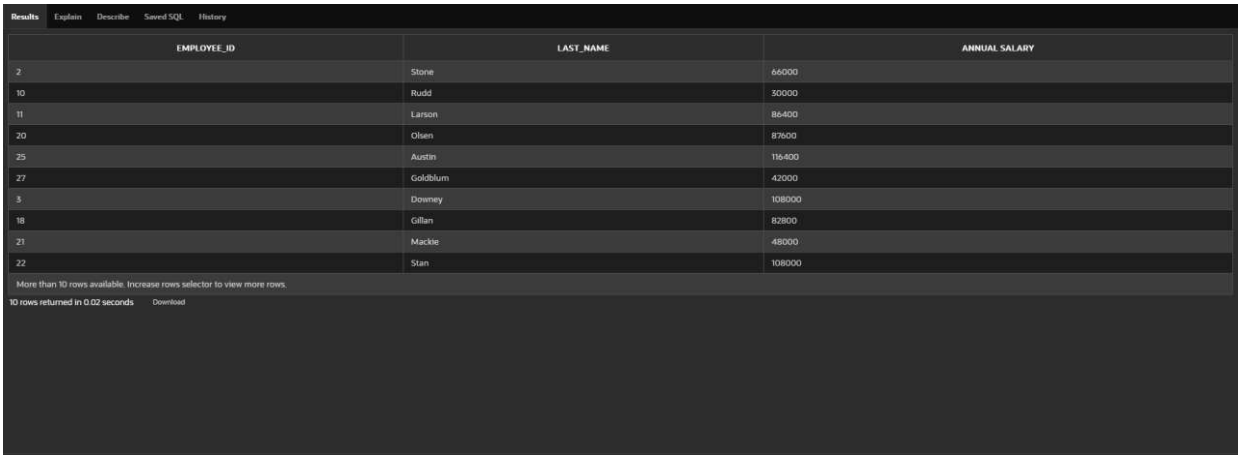
1. The following statement executes successfully.

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 | Saved SQL | History

EMPLOYEE_ID	LAST_NAME	ANNUAL SALARY
2	Stone	66000
10	Rudd	30000
11	Larson	86400
20	Olsen	87600
25	Austin	116400
27	Goldblum	42000
3	Downey	108000
18	Gillan	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	04/06/1969
11	#bl011	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	#ss022	Stan	08/13/1982

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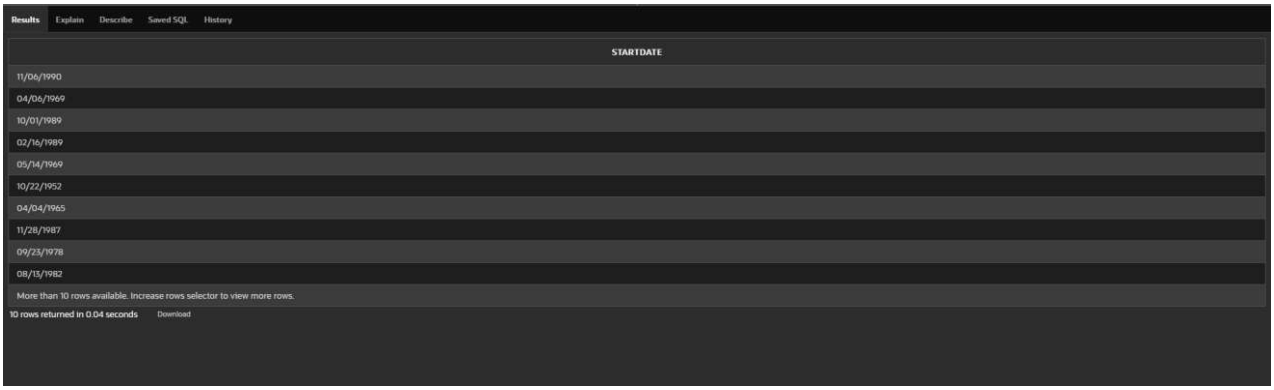
4) Provide an alias STARTDATE for the hire date.

select hire_date as "STARTDATE" from employees;



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

select distinct(job_id) from employees;

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;

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 | Saved SQL | History

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 , #bl011 , 7200 , .18 , 400 , 35
20 , Elizabeth , Olsen , elizabeth020@gmail.com , 9840237531 , 02/16/1989 , #eo020 , 7500 , .12 , 800 , 90
25 , Cate , Austin , cate025@gmail.com , 9840237536 , 05/14/1969 , #cb025 , 9700 , .11 , 100 , 55
27 , Jeff , Goldblum , jeff027@gmail.com , 9840237538 , 10/22/1952 , #jg027 , 3500 , .13 , 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 , 09/23/1978 , #am021 , 4000 , .13 , 850 , 30
22 , Sebastian , Stan , sebastian022@gmail.com , 9840237533 , 08/13/1982 , #ss022 , 9000 , .14 , 550 , 75
More than 10 rows available. Increase rows selector to view more rows.

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