Experiment:3

DATE: 09-08-2024

WRITING BASIC SQL SELECT STATEMENTS

Find the Solution for the following:

1. True OR False

The following statement executes successfully.

Identify the Errors

SELECT employee_id, last_name sal*12 ANNUAL SALARY FROM employees;

Correction:

SELECT

employee_id,

last_name,

salary * 12 AS annual_salary

FROM

employees;

EMPLOYEES TABLE

NAME	NULL?	TYPE
Employee_id	Not null	Number(6)
First_Name		Varchar(20)
Last_Name	Not null	Varchar(25)
Email	Not null	Varchar(25)
Phone_Number		Varchar(20)
Hire_date	Not null	Date
Job_id	Not null	Varchar(10)
Salary		Number(8,2)
Commission_pct		Number(2,2)
Manager_id		Number(6)
Department_id		Number(4)

Queries

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

CREATE TABLE EMPLOYEES (

Employee_id NUMBER(6) NOT NULL,

First Name VARCHAR2(20),

Last_Name VARCHAR2(25) NOT NULL,

Email VARCHAR2(25) NOT NULL,

Phone_Number VARCHAR2(20),

Hire_date DATE NOT NULL,

Job_id VARCHAR2(10) NOT NULL,

Salary NUMBER(8,2),

Commission_pct NUMBER(2,2),

Manager_id NUMBER(6),

Department_id NUMBER(4),

CONSTRAINT emp_pk PRIMARY KEY (Employee_id)

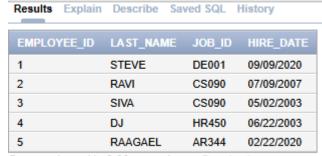
);

Object Type TA	BLE Object EMPLOYE	ES							
Table		Data Type							
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	-	~	-	-
								1-	11

SELECT * FROM EMPLOYEES;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER		JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	JACK	STEVE	steve@gmail.com	IN001	09/09/2020	DE001	15000	.4	100	30
2	THENU	RAVI	thenu@gmail.com	IN002	07/09/2007	CS090	23000	.9	101	35
3	SANDY	SIVA	sandy@gmail.com	IN004	05/02/2003	CS090	20000	.9	100	35
4	DHARSH	DJ	dj@gmail.com	IN034	06/22/2003	HR450	33300	.3	105	70
5	HEMA	RAAGAEL	HEMA@gmail.com	IN023	02/22/2020	AR344	23000	.5	101	60

3. Create a query to display the last name, job code, hire date, and employee number for each employee, with employee number appearing first



5 rows returned in 0.00 seconds Download

4. Provide an alias STARTDATE for the hire date.

EMPLOYEE_ID	STARTDATE
1	09/09/2020
2	07/09/2007
3	05/02/2003
4	06/22/2003
5	02/22/2020

5 rows returned in 0.01 seconds

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



6. Display the last name concatenated with the job ID, separated by a comma and space, and name the column EMPLOYEE and TITLE.



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 || ', ' ||

NVL(First_Name, ") || ', ' ||

Last_Name || ', ' ||

Email || ', ' ||

NVL(Phone_Number, ") || ', ' ||

TO_CHAR(Hire_date, 'YYYY-MM-DD') || ', ' ||

Job_id || ', ' ||

NVL(TO_CHAR(Salary), ") || ', ' ||

NVL(TO_CHAR(Commission_pct), ") || ', ' ||

NVL(TO_CHAR(Manager_id), ") || ', ' ||

NVL(TO_CHAR(Department_id), ") AS THE_OUTPUT

FROM

EMPLOYEES;
```

THE_OUTPUT

1, JACK, STEVE, steve@gmail.com, IN001, 2020-09-09, DE001, 15000, .4, 100, 30

2, THENU, RAVI, thenu@gmail.com, IN002, 2007-07-09, CS090, 23000, .9, 101, 35

3, SANDY, SIVA, sandy@gmail.com, IN004, 2003-05-02, CS090, 20000, .9, 100, 35

4, DHARSH, DJ, dj@gmail.com, IN034, 2003-06-22, HR450, 33300, .3, 105, 70

5, HEMA, RAAGAEL, HEMA@gmail.com, IN023, 2020-02-22, AR344, 23000, .5, 101, 60

5 rows returned in 0.00 seconds

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