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,

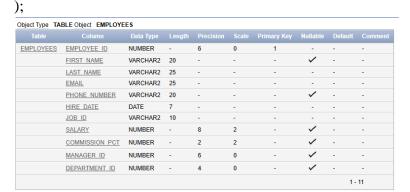
Salary NUMBER(8,2),

Commission_pct NUMBER(2,2),

Manager_id NUMBER(6),

Department_id NUMBER(4),

CONSTRAINT emp_pk PRIMARY KEY (Employee_id)



SELECT * FROM EMPLOYEES;

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | 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 |
| 5 rows returned in | 0.00 seconds | Download | | | | | | | | |

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



4. Provide an alias STARTDATE for the hire date.

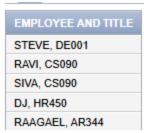
| EMPLOYEE_ID | STARTDATE |
|-------------|------------|
| 1 | 09/09/2020 |
| 2 | 07/09/2007 |
| 3 | 05/02/2003 |
| 4 | 06/22/2003 |
| 5 | 02/22/2020 |

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;
```

| _ | _ | _ | _ | _ |
|---|---|---|---|-------|
| _ | | | | |
| | | | | |

- 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 Download