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

EMPLOYEE EMPLOYEE ID NUMBER - 6 0 1 -	Object Type TA	BLE Object EMPLOYE	ES							
FIRST NAME VARCHAR2 20 -			Data Type							
LAST_NAME VARCHAR2 25 -	EMPLOYEES	EMPLOYEE ID	NUMBER	-	6	0	1	-	-	-
EMAIL VARCHAR2 25 - <		FIRST NAME	VARCHAR2	20	-	-	-	~	-	-
PHONE NUMBER VARCHAR2 20 -		LAST NAME	VARCHAR2	25	-	-	-	-	-	-
HIRE DATE DATE 7		EMAIL	VARCHAR2	25	-	-	-	-	-	-
SALARY NUMBER - 8 2 - - - - - - - - -		PHONE NUMBER	VARCHAR2	20	-	-	-	~	-	-
SALARY NUMBER - 8 2 - <th< td=""><td></td><td>HIRE DATE</td><td>DATE</td><td>7</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<>		HIRE DATE	DATE	7	-	-	-	-	-	-
COMMISSION PCT NUMBER - 2 2 - - - - - MANAGER ID DEPARTMENT ID DEPARTMENT ID NUMBER NUMBER - 4 0 - - - - -		JOB ID	VARCHAR2	10	-	-	-	-	-	-
MANAGER ID NUMBER - 6 0		SALARY	NUMBER	-	8	2	-	~	-	-
DEPARTMENT ID NUMBER - 4 0 - ✓		COMMISSION PCT	NUMBER	-	2	2	-	~	-	-
		MANAGER ID	NUMBER	-	6	0	-	~	-	-
		DEPARTMENT ID	NUMBER		4	0	-	/		-
1-11									1-	11

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

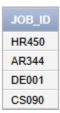


4. Provide an alias STARTDATE for the hire date.

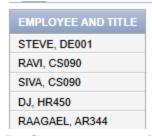
EMPLOYEE_ID	STARTDATE
1	09/09/2020
2	07/09/2007
3	05/02/2003
4	06/22/2003
5	02/22/2020

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

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