**EXERCISE-4**

**Writing Basic SQL SELECT Statements**

**Employee table:**

CREATE TABLE Employees (

Employee\_id NUMBER(6) NOT NULL,

First\_Name VARCHAR(20),

Last\_Name VARCHAR(25) NOT NULL,

Email VARCHAR(25) NOT NULL,

Phone\_Number VARCHAR(20),

Hire\_date DATE NOT NULL,

Job\_id VARCHAR(10) NOT NULL,

Salary NUMBER(8,2),

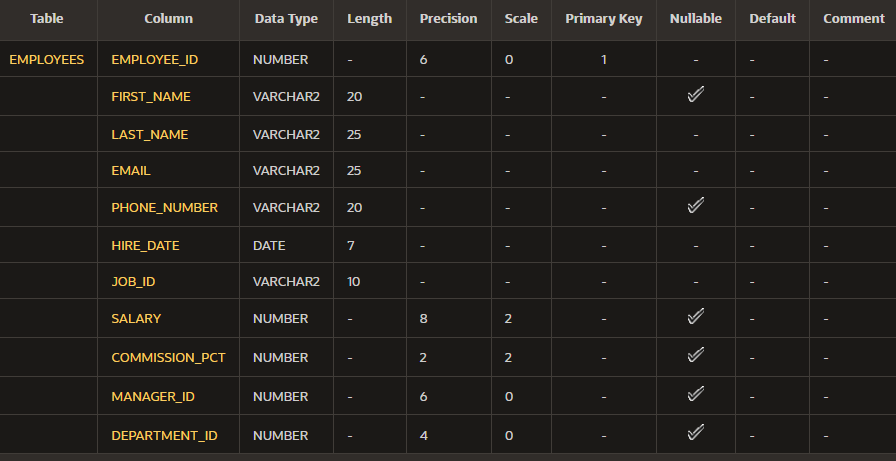
Commission\_pct NUMBER(2,2),

Manager\_id NUMBER(6),

Department\_id NUMBER(4),

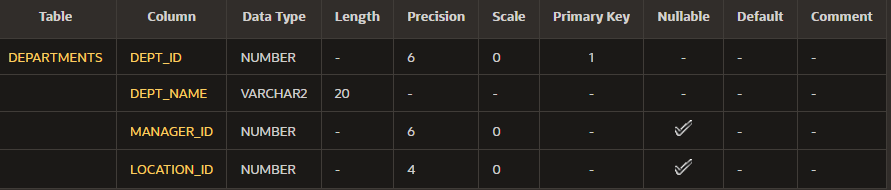
PRIMARY KEY (Employee\_id)

);

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**Department Table**

CREATE TABLE Departments ( Dept\_id NUMBER(6) NOT NULL, Dept\_name VARCHAR(20) NOT NULL, Manager\_id NUMBER(6), Location\_id NUMBER(4), PRIMARY KEY (Dept\_id), FOREIGN KEY (Manager\_id) REFERENCES Employees(Employee\_id) );

****

**Find the Solution for the following:**

1. The following statement executes successfully.

**Identify the Errors**

SELECT employee\_id, last\_name

sal\*12 ANNUAL SALARY

FROM employees;

**Queries**

SELECT employee\_id, last\_name

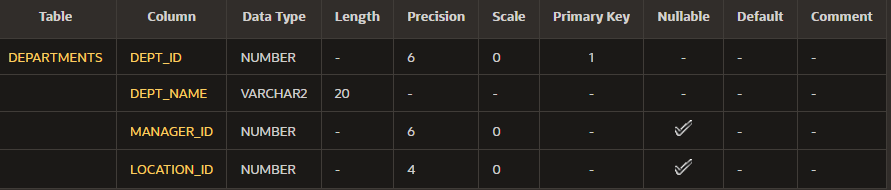
sal\*12 as “ANNUAL SALARY”

FROM employees;

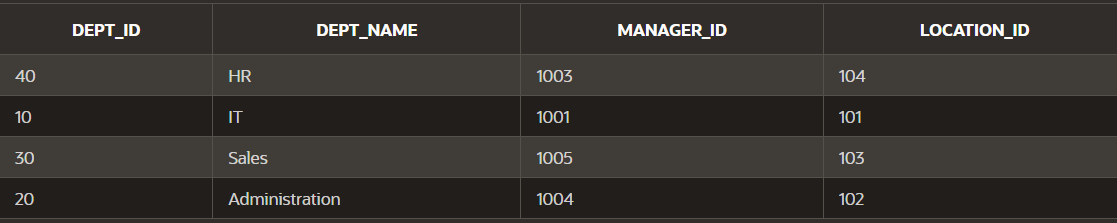


1. Show the structure of departments the table. Select all the data from it.

Describe Departments;

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Select \* from departments;



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

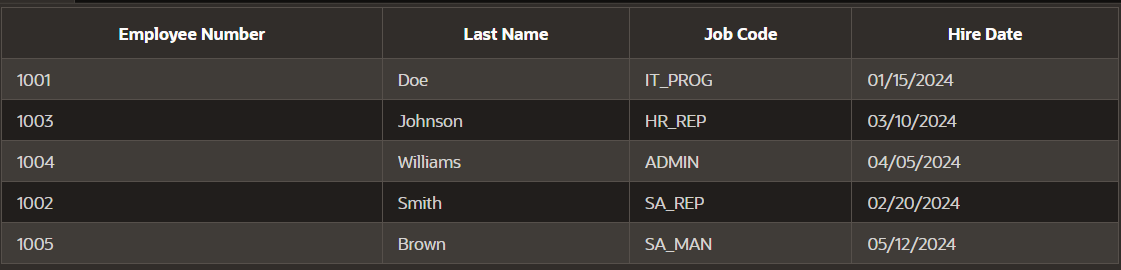
SELECT employee\_id AS "Employee Number",

last\_name AS "Last Name",

job\_id AS "Job Code",

hire\_date AS "Hire Date"

FROM employees;



1. Provide an alias STARTDATE for the hire date.

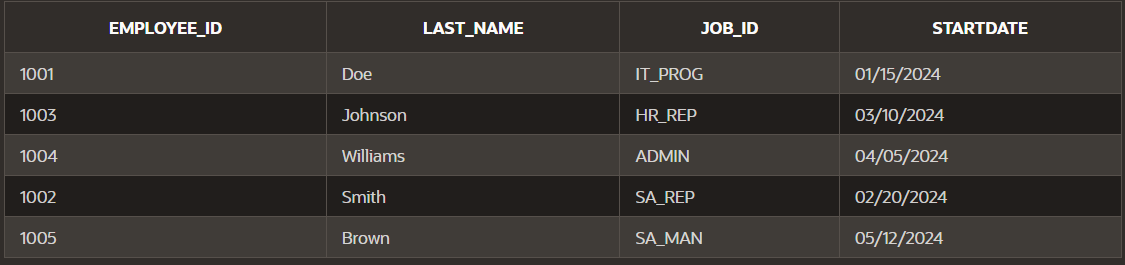
SELECT employee\_id,

last\_name,

job\_id,

hire\_date AS "STARTDATE"

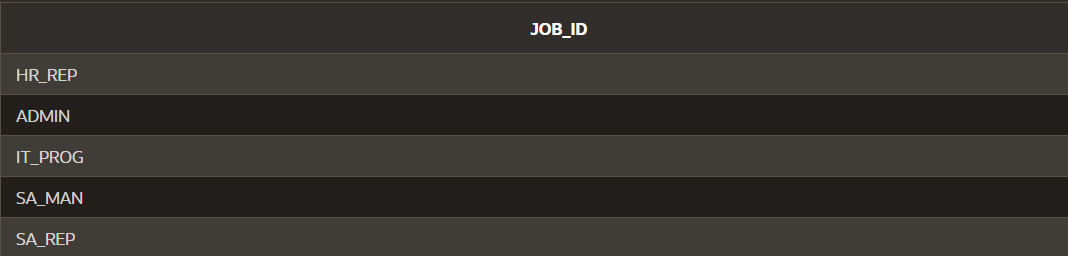
FROM employees;



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

SELECT DISTINCT job\_id

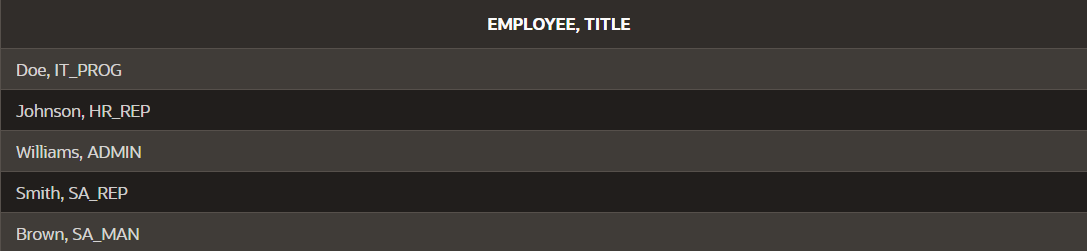
FROM employees;



1. 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, TITLE"

FROM employees;



1. 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 AS "THE\_OUTPUT"

FROM employees;

