Ex.No.: 3	WRITING BASIC SQL SELECT STATEMENTS
Date: 02[08/2024	

OBJECTIVES

After the completion of this exercise, the students will be able to do the following:

- List the capabilities of SQL SELECT Statement
- Execute a basic SELECT statement

Capabilities of SQL SELECT statement

A SELECT statement retrieves information from the database. Using a select statement, we can perform

- Projection: To choose the columns in a table
- Selection: To choose the rows in a table
- Joining: To bring together the data that is stored in different tables

Basic SELECT Statement

Syntax

SELECT *|DISTINCT Column_ name| alias FROM table_name;

NOTE:

DISTINCT—Suppress the duplicates.

Alias—gives selected columns different headings.

Example: 1

SELECT * FROM departments;

Example: 2

SELECT location_id, department_id FROM departments;

Writing SQL Statements

- SQL statements are not case sensitive
- SQL statements can be on one or more lines.

Using Literal Character String

- A literal is a character, a number, or a date included in the SELECT list.
- Date and character literal values must be enclosed within single quotation marks.

Example:

SELECT last_name||'is a'||job_id AS "EMPLOYEES JOB" FROM employees;

Eliminating Duplicate Rows

Using DISTINCT keyword.

Example:

SELECT DISTINCT department_id FROM employees;

Displaying Table Structure

Using DESC keyword.

Syntax

DESC table_name;

Example:

DESC employees;

Find the Solution for the following:

True OR False

The following statement executes successfully. 1.

Identify the Errors

SELECT employee_id, last_name

sal*12 ANNUAL SALARY

FROM employees;

SELECT employee -id, lost_name, Sal * 12 AS ANNUAL

SALARY FROM employees;

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

DESC employees;

SELECT & Joon employees;

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, last-name, job-id, hore-date FROM employees;

Provide an alias STARTDATE for the hire date.

SELECT hora-dute As Stortdalse from employees;

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

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 | 1, 1/1 job_id As title .FROM employees;

Create a query to display all the data from the employees table. Separate each column by

SELECT employee id! (,71) first_name (1,4) last_home a comma. Name the column THE_OUTPUT. [11,7] email [16,7] Phono_number[16,7] five_date[16,7] job_id[16,7]
Salvery [16,7] Commission_ Pet [16,7] managed_id [16,7] depostment

id As tho output PROM

Evaluation Procedure	Marks awarded	
Query(5)	5	
Execution (5)	5	
Viva(5)	76	
Total (15)	14	
Faculty Signature	Q-	