Ex.No.: 3	
Date:	WRITING BASIC SQL SELECT STATEMENTS

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

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.

- Keywords cannot be abbreviated or split across lines
- Clauses are usually placed on separate lines
- Indents are sued to enhance readability

Using Arithmetic Expressions

Basic Arithmetic operators like *, /, +, -can be used Example: 1

SELECT last_name, salary, salary+300 FROM employees; Example:2

SELECT last_name, salary, 12*salary+100 FROM employees;

The statement is not same as SELECT last_name, salary, 12*(salary+100) FROM employees;

Example:3

SELECT last_name, job_id, salary, commission_pct FROM employees;

Example:4

SELECT last_name, job_id, salary, 12*salary*commission_pct FROM employees;

Using Column Alias

To rename a column heading with or without AS keyword.

Example:1

SELECT last_name AS Name

FROM employees:

Example: 2

SELECT last_name "Name" salary*12 "Annual Salary "

FROM employees;

Concatenation Operator

- Concatenates columns or character strings to other columns
- Represented by two vertical bars (||)
- Creates a resultant column that is a character expression

Example:

SELECT last_name||job_id AS "EMPLOYEES JOB" FROM employees;

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.

Identify the Errors

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

Solver employees; Solver employees, solver 2 as ANNUALSALARY Source employees.

Queries

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

> days departments; solot & form departments;

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

Solot employer-number, last_more, job_lade, hisodate from employers.

Provide an alias STARTDATE for the hire date.

Solor herodate as STARTDATE from employees;

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

2000st rujane (jeprogo) goom ow brokes:

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

Sobot 500-id 11 1," 11 but-rame as "Employeeard title" from employees,

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

Solod employee_number 11',' || last_name ||',' || Sob cade ||',' || hisodate ||.

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	R