Ex.No.: 3	WRITING BASIC SQL SELECT STATEMENTS
Date: 218/24	

## **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 departent\_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;
SELECT sunfloyee\_id, last\_name sal\*12 AS ANNUAL\_SALARY FROM
employees;
Queries

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

Desc Employees Table; Select \* from Employees - table; 3. 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, like date from Employees - table;

4. Provide an alias STARTDATE for the hire date.

Select like date as Start date from Employees - table;

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

Select distinct job id from Employees - table;

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

Silect Last\_name 11', "11 job\_id As" Eurologies Title"

from Employees - table;

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

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