Introduction to Database

Lab Manual Midterm

American International University-Bangladesh

Lab 01: Writing Basic SQL Statements

Objectives:

To extract data from the database, you need to use the Structured Query Language (SQL) SELECT statement. You may need to restrict the columns that are displayed. This lesson describes all the SQL statements that you need to perform these actions. You may want to create SELECT statements that can be used time and time again. This lesson also covers the use of SQL*Plus commands to execute SQL statements.

Topics to be discussed:

- Capabilities of SQL SELECT Statements
- Basic SELECT Statement
- Writing SQL Statements
- Executing SQL Statements
- Selecting All Columns, All Rows
- Arithmetic Expressions
- Arithmetic Operators
- Using Arithmetic Operators
- Operator Precedence
- Using Parentheses
- Null Values
- Column Aliases
- Concatenation Operator
- Literal Character Strings
- Duplicate Rows
- Displaying Table Structure

Exercise:

1. Write a query to display the name, department number for all employees.
2. Create a unique listing of all jobs that are in department 30.
3. Include the location of department 30 in the output.
4. Write a query to display the employee name, employee no of all employees who earn a commission.

- Display the employee name and department no for all employees who have an A in their name.Upload the text document in the link provided in your VUES account