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Information Management 1 LECTURE

Title: Introduction to SQL Module No: 4

I. INTRODUCTION

In order to progress well-meaning database, we need to recognize the theory of SQL. SQL or structured query language that can help to manage the proper implementations and operations of the entire database itself. It will also support in setting up constraints and distinctive inconsistencies within a certain databases.

II. LEARNING OBJECTIVES

After studying this module, you should be able to:

- Understand all about SQL.
- Identify and understand the different SQL commands.
- Understand and identify what SQL can do.

III. TOPICS AND KEY CONCEPTS A. SQL INTRODUCTION

SQL

- SQL stands for Structured Query Language
- ➤ A standard language for accessing and manipulating databases
- > It is an ANSI standard

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B. WHAT CAN SQL DO?

What can SQL do?

- > SQL can execute queries against a database
- > SQL can retrieve data from a database
- > SQL can insert records in a database
- > SQL can update records in a database
- > SQL can delete records from a database
- > SQL can create new databases
- > SQL can create new tables in a database
- > SQL can create stored procedures in a database
- > SQL can create views in a database
- > SQL can set permissions on tables, procedures, and views

SQL is a Standard – BUT...

Although SQL is an ANSI standard, there are different versions of the SQL language.

However, to be compliant with the ANSI standard, they all support at least the major commands (such as SELECT, UPDATE, DELETE, INSERT, WHERE) in a similar manner.

Most of the SQL database programs also have their own proprietary extensions in addition to the SQL standard!

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RDBMS

Stands for Relational Database Management System

RDBMS is the basis for SQL, and for all modern database systems such as MS SQL Server, IBM DB2, Oracle, MySQL, and Microsoft Access.

The data in RDBMS is stored in database objects called tables.

C. SQL COMMANDS

Some important SQL Commands

- ❖ SELECT extracts data from a database
- UPDATE updates data in a database
- ❖ DELETE deletes data from a database
- ❖ INSERT INTO inserts new data into a database
- ❖ CREATE DATABASE creates a new database
- ❖ ALTER DATABASE modifies a database
- CREATE TABLE creates a new table
- ❖ ALTER TABLE modifies a table
- ❖ DROP TABLE deletes a table
- CREATE INDEX creates an index (search key)
- ❖ DROP INDEX deletes an index

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IV. TEACHING AND LEARNING MATERIALS RESOURCES

- PC Computer || Laptop || Smartphone
- Internet Connection
- Browsers
- Any available Programming Software
- GC-LAMP
- Google Classroom
- Google Meet
- Facebook Group
- Facebook Messenger
- For online activity sites:
 - ✓ https://www.blogger.com/about/?r=1-null_user
 - ✓ https://www.wix.com/html5bing/hiker-

blog?utm_source=bing&utm_medium=cpc&utm_campaign=ms_en_e_1 NEW^bl_blogging_rest&experiment_id=blogging^be^79714673617818^blogging&msclkid=983ab99d6f3e1cb92c8de6b674948445

V. LEARNING TASKS

A. ENGAGE

Activity 1: Blogging

A blog is a discussion or informational website published on the World Wide Web consisting of discrete, often informal diary-style text entries. Posts are typically displayed in reverse chronological order, so that the most recent post appears first, at the top of the web page.

Materials Needed: PC/Laptop/Smart phone, Internet Connection and Browser

Instruction: Based on your own understanding, kindly define the following terminologies:

A. WHAT IS SQL?

Your answer will be in a form of a blog. Kindly create your own title for each post. Each post must contain at least 2 to 3 images. Only one blog site per student. You can create your blog using the following online sites:

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https://www.blogger.com/about/?r=1-null_user or

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https://www.wix.com/html5bing/hiker-

blog?utm_source=bing&utm_medium=cpc&utm_campaign=ms_en_e_1_NEW^bl_blogging_rest&experiment_id=blogging^be^7971467361_7818^blogging&msclkid=983ab99d6f3e1cb92c8de6b674948445_

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Completed the activities and understood the topic based on the given	Outstanding 50 points	Very Good 40 points	Good 30 points	Fair 20 points	No Work Output
answer					

B. EXPLORE & EXPLAIN

An	iswer the following questions:			
1.	What are some sql command	s?		
2.	What is the difference between	en drop and dele	te command?	
Rubric:				
210001101	Each correct answer will be	Question 1	Question 2	Total Score
	given 10 points.			
	Total score = 25 points			
	- 23 points			

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C. ELABORATE & EVALUATION

Answer the following questions: Identification	
1. Extracts data from a database.	
2. Inserts new data into a database.	
3. Modifies a table.	
4. A standard language for accessing and manipulating databases.	
5. Can set permissions on tables, procedures, and views.	

Rubrics:

Each correct	Question 1	Question 2	Question 3	Question 4	Question 5	Total Score
answer will						
be given 5						
points.						
Total score						
= 25 points						

VI. **REFERENCES**

- Database System for Management J.F. Courtney, et al. Global Text Project, 2010
- DBMS Tutorial, retrieved from https://www.tutorialspoint.com/dbms/, retrieved on August 5, 2019
- SQL Tutorial, retrieved from https://www.w3schools.com/sql/, retrieved on August 5, 2019
- http://w3schools.com/sql
- http://www.tutorialspoint.com/java

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