311L: Database Management System
Section- 03
Instructor: Tushar Basak

Course Objectives: To teach and instruct the students the basics of database management system (DBMS) and its principles and mainly focus on Structured Query Language (SQL) its implementation. Upon completing the course, a learner will have clear and concise understanding of database management system and Structured Query Language (SQL). The motto of this course is **"We will learn together"-** so don't feel any hesitation to ask questions.

Every Question is warmly welcomed and appreciated.

Contact Information
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Course Outline & Schedule

Lab Class	Topic
Class 1	Introduction to RDBMS + MySQL Setup + Project Group Formation
Class 2	Introduction to DB-LES, Study of DB-LES Database tables and data using simple SQL-1 Creation tables as per lecture 18-02024 and running SQL on the tables
Class 3	Project Announcement and Guidelines, Single Table Complex Query (SQL 2) using DB-LES
Class 4	Simple problem solving using Raw PhP, HTML and CSS; Explanation of study materials required to implement the database project

Class 5	Online Exam 1 on SQL + ERD Practice
Class 6	Project Update 1(Project ERD Finalization)
Class 7	Multiple Table (SQL 3)
Class 8	Multiple Table Complex Query (SQL 4) with sub-query
Class 9	Online Exam 2 Based on SQL 3 and SQL 4; Project Update 2 (Project DDL with all constraints and sample data)
Class 10	Exam on Project, Queries on Views,
Class 11	Final update of projects
Class 12	Final Project Presentation + Viva

Mark Distribution

Lab Task: 40%
Online Exam 1: 30%
Online Exam 2: 30%
Total on Lab: 100%

Project Update 1: 20%
Project Update 2: 20%
Exam on Project: 20%
Final Project Presentation + Viva: (30% + 10%)
Total on Project : 100%

Project Instructions

Group Member: Maximum 2 and Minimum 1

Project Requirements
Front-end part: Use HTML, CSS, Bootstrap
Back-end part: Use Raw PHP(***mandatory)
Database: MySQL

Online Resources for learning:

1. [ER Diagram (lucidchart.com)](lucidchart.com)
2. [SQL Tutorial - Full Database Course for Beginners - YouTube](youtube.com)
3. [Bangla Database Tutorial 1 : কোর্স পরিচিতি | Introduction to course - YouTube](youtube.com)
4. [MySQL Tutorial (tutorialspoint.com)](tutorialspoint.com)
5. [MySQL Tutorial (w3schools.com)](w3schools.com)

***Please be sincere to follow these resources for self-learning.