

COURSE OUTLINE

Course Code: CSE 216

Course Title: Database Sessional

Level/Term: 2/2

Section: A+B

Academic Session: 2018-2019 (January 2020)

Course Outline:

Oracle SQL: Selection, Aggregation, Join, Sub-query; Oracle DML and DDL Statements; Oracle PL/SQL: Functions, Triggers, and Procedures; Design of a Database; Designing and Implementing multi-platform Database.

Learning Outcomes/Objectives:

After undergoing this course, students should be able to:

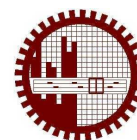
- i. Learn basic SQL statements in Oracle like selection, projection, filtering, and aggregation, and data manipulation statements like insert, update, and delete statements.
- ii. Learn complex SQL statements like join and sub-query
- iii. Learn Oracle PL/SQL Statements to write functions, procedures, and triggers.
- iv. Design, analyze, and implement a database for a real-world system.

Assessment (Tentative)

1. Participation in lab classes and practice class performance - 10 %
2. Online Assessments - 40%
3. Term Project - 30%
4. Final Quiz - 20%

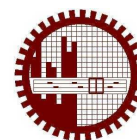
Text and Reference books:

- a. *Oracle-SQL-PL-SQL - A Brief Introduction*, by Sukarna Barua [Reference]
- b. *SQL, PL/SQL the Programming Language of Oracle* by Ivan Bayross [Reference]



Week No.	Topic Name	
1	Outline with grading policy, Reference books, Oracle installation, Introducing HR schema	
2	Project group formation Database Design Lecture + Practice	
3	ERD Online Project Finalization Basic SQL Lecture	
4	Basic/Advanced SQL Lecture + Practice ERD Discussion	
5	ERD Submission + Presentation of Project [Evaluation]	
6	Basic SQL Online [Evaluation] Advanced SQL Lecture + Practice	
7	Online on Advanced SQL [Evaluation] Assignment submission: Designing database table for the assigned project Class on connection establishment (JAVA, PHP can be demonstrated)	
8	Project Milestone 1 Evaluation [Evaluation] Minimum Requirement: Presentation on Corrected Database Design, UI Design, Connecting with Database	
9	PL/SQL Lecture + Practice	

Weekly Schedule:



10	PL/SQL Online [Evaluation] Discussion on project progress (if needed)	
11	Project and Assignment Update [Evaluation] Minimum Requirement: One module of the project is fully implemented	
12	Quiz	
13	Term Project Final Submission + Presentation [Evaluation]	
14	Reserved	