CSE 216
Course Outline

Course Outcomes:

CO1	Design databases for a real-world system.	PO1-PO5, PO9-PO12
CO2	Write SQL queries with focus on performance and standard engineering practice.	PO1
CO3	Develop software systems that utilize a database.	PO1-PO5, PO9-PO12

Activity Plan:

Week	Topic
Week 1	Oracle Database Installation; Introduction to Database, Tables and Relationships; Basic SQL (Select to Aggregation) Lecture; Project Group Formation
Week 2	DDL and DML Lecture and Practice; Project Finalization (Discussion)
Week 3	Advanced SQL Lecture
Break	Winter Vacation Break
Week 4	Basic SQL Online
Week 5	Project Update 1 (Presentation on ERD) *Project milestone: 20% (Evaluation will be done by all instructors)* Additional Lecture (front end + back end)
Week 6	Project Update 2 (ERD and Schema Finalization) *Project milestone: 30% (evaluation will be done by supervisors)* *Moodle submission of the final ERD and Schema.*
Week 7	Advanced SQL Online
Week 8	PL/SQL Lecture and Practices
Week 9	Project Update 3 (Schema, DB Connection, Feature Implementation using Basic SQL) *Project milestone: 50% (evaluation will be done by supervisors)*
Week 10	PL/SQL Online
Week 11	Project Update 4 (Feature Implementation using Advanced SQL & PL/SQL) *Project milestone: 70%*
Week 12	Quiz + Project discussion with supervisor in sessional classes Lecture on NoSQL and recent trends
Week 13	Final Project Submission *Project milestone: 100% (evaluation will be done by two instructors)* *Moodle submission of the final project.*

Assessments:

- Online: 30-35%%
- Project Design (ERD): 10-15%
- Final Project: 20-25%
- Quiz: 25-30%