Database Management System Class Project

CLO3:

Design ERM for Relational database Model using the concepts of Normalization

PLO:

Design/Development of Solutions   **High**

      Theory   30 Marks

      Lab   30 Marks

Presentations and Schedule:

- **Presentations will conducted in the remaining classes as follows:**
- **Weeks 1-2:**   **Dated: 10-11 and 17-18/04/2018**

  Title of the project, the **INNOVATIVE IDEA**, Entities (strong and weak), Attributes (required and optional, single valued and multivalued, simple, composite and derived attributes), Keys (Super, Primary, Foreign, Candidate, Secondary, Surrogate) and Business rules

- **Week 3:**   **Dated: 17-18/04/2018**

  1st Designing (ER Model) without Normalization and with Full Functional dependence, , Connectivity and Cardinality, Relationships (participation, strength and degree), with existence dependence.

- **Week 4:**   **Dated: 24-25/04/2018**

  2nd Designing (ER Model) with Normalization with improving the design Concepts, Higher Normal Forms and Denormalization

  Complete Presentation with Implementation Demo (within Lab)

  Dated: 04-05/05/2018

Presentations Guidelines:

- **Every group must maintain three components:**
  - Presentation Slides and Charts (Theory)
  - DB Implementation (Lab)
- Every group must present 30 Slides(at least), 10 slides for each student, One Chart and Notebook in each presentation.
- Explaining each topic must be explained within design.
  - Complete Understanding of Entities, Relationships and Attributes.
- **Complete ERM**
  - Complete Understanding of ER Model and Normalization
  - ERD (*with explanation of each symbol, line and terminologies etc*)
  - Explaining Data Dictionary or System catalog
  - Anomalies, Data inconsistencies, Data Redundancies etc
    - Explain with Scenarios
  - Improving the Database Designs all aspects one by one.

Students Marking and Grading Criteria:

Students will be marked on ACCKO System.

- ❑Appearance

- ❑Communication

- ❑Coordination among group fellows

- ❑Knowledge

  - ❑(Max. Marks, **INNOVATIVE IDEA and its implementation prototype and plan**)

- ❑Overall performance

Mark Sheet format

Note: Students and groups information filled Mark Sheets must provided by CR and GR for their respective sections before the next class

Group Number	Title of project	Registration Number	Name	1st Presentation Marks out of 10	2nd Presentation Marks out of 10	3rd Presentation Marks out of 10	Group Marks	Comments	Final Marks Marks out of 30