Experiment No: 3

Name: **Roll No. :**

Batch: **Performance Date :**

Topic:	Mapping the ER and EER Model to the Relational Model.
Prerequisite:	Knowledge of ER and EER concepts are required.
Mapping With COs:	CSL402.4
Objective:	Convert ER and EER into Relational Model.
Outcome:	Students should be able to learn how to transform an ER diagram into an equivalent set of well-structured relations.
Instructions:	1. This experiment is a compulsory experiment. All the students are required to perform this experiment in a group. 2. Implement Relational Model for the chosen case studies.
Deliverables:	**Submission on Moodle:** 1. Explain the terms: Database, DBMS, RDBMS 2. (a) List down all Relations with its Relational Schema (b) For all Relations - identify all possible types of keys (c) List down all possible relationships with their cardinality (d) List down: Weak Entities, Specialization/ Generalization and Aggregation 3. Relational Model for the chosen case studies. (Follow the steps) 4. Viva based on : Types of keys, Rules for converting following concepts into relational model:- Entity, Weak Entity, Attributes, Relationship, Generalization/Specialization, Aggregation.
Conclusion:	Students will be able to convert ER and EER into Relational Models.
References:	Put the reference of resources used to perform this experiment. (Referred textbooks/websites etc.)

Don Bosco Institute of Technology
Department of Computer Engineering

Assessment Rubric for Experiment No. 3

Title of Experiment : Design Relational Model **Performance Date :**
Year and Semester : 2nd Year and IVth Semester **Submission Date :**

Sr. No.	Criteria	1 Marks	2 Marks	3 Marks	4 Marks	5 Marks
1	Productivity (i.e. How much percentage of work completed)	Solution should properly converting 10-30 % of following into tables: - Strong entities - Weak entities - multi-value attributes - composite attributes - relationship - cardinalities - Generalization/ Specialization - Aggregation	Solution should properly converting 31-50 % of following into tables: - Strong entities - Weak entities - multi-value attributes - composite attributes - relationship - cardinalities - Generalization/ Specialization - Aggregation	Solution should properly converting 51-70 % of following into tables: - Strong entities - Weak entities - multi-value attributes - composite attributes - relationship - cardinalities - Generalization/ Specialization - Aggregation	Solution should properly converting 71-89 % of following into tables: - Strong entities - Weak entities - multi-value attributes - composite attributes - relationship - cardinalities - Generalization/ Specialization - Aggregation	Solution should properly converting 90-100 % of following into tables: - Strong entities - Weak entities - multi-value attributes - composite attributes - relationship - cardinalities - Generalization/ Specialization - Aggregation
2	Performance (Contribution and Cooperation)	Rarely provides ideas to the group. May even refuse to participate.	Sometimes provides ideas in group work. A satisfactory group member who does what is required.	Usually provides ideas in group work. A strong member who tries hard.	Provides useful ideas when doing group work. A real leader who contributes a lot of effort.	
3	Viva	Students hardly answered.	Students have problems while answering.	Questions are answered fairly well.	Questions are answered completely and correctly.	
4	Submission on Time	Submitted after the given deadline	Submitted before the given deadline			