Department of Computer Science and Engineering,
Anna University, Chennai- 600025
CS6106 – Database Management System (R 2018)
Practical
Jan- May 2023
Year/Sem/Batch : II/IV/ Q

Exercise: 2	Entity Relationship Diagram	30- Jan- 2023

Observation (5 Marks)

Enumerate and illustrate the different notations used in Entity Relationship diagram with an example.

Execution (15 Marks)

Create an Entity Relationship Diagram for the Academic Information Management System(AIMS). It should reflect the visual instrument of database tables and the relations between Students, Faculties, Courses etc. The main entities of Academic Information Management systems (AIMS) are Students, faculties, Courses.

Entities and their attributes:

Student_Entity : Stu_id, Stu_name, Stu_fname, Stu_Lname, Stu_Phno., Stu_DOB, Stu_Age,

Stu_Dept, Stu_Addr, Stu_Batch, Stu_Sem

Faculty: F_Id, F_Name, F_Dept, F_Phno

Department: D_Id, D_Name, D_Loc

Course: C_Id, C_Name, C_Sem, C_Credits, C_Type

Course Offered: C_Id, C_Name, CDept_Name

Course Enrollment : S_Id, Stu_Name, Stu_Dept, C_Id, C_Name, C_Sem, CDept_Name

Grade: Stu_Id, C_Mark1, C_Mark2, C_Mark3, GPA

Faculty Advisor: F_Id, F_Name, Stu_Id, Stu_Name.

On the Spot Exercise (5 Marks)

Draw an ER diagram for an airline flight information system

Flights (FlNo:Integer, from: string, To String, distance: integer, departs: time, arrives: time, price: real)
Aircraft (AID: Integer, aname: string, cruisingrange: integer)
Certified(EID:integer,aid:integer)
Employees (EID:intger, ename: string, salary:integer)