Suryadatta Education Foundation’s

Suryadatta Institutes of Management, Pune -21

Assignment 2

Class : MCA I Year II Semester Academic Year 2023-2024 Subject: IT 24 Advanced Database

1. What is entity? Explain symbols use in ER diagram with suitable example.
2. Explain Codd’s rules.
3. Explain Normalization till BCNF with suitable example.
4. Case Study:

A management institute has organized a national level research conference. There are various specialized tracks based on the subjects. Participant researchers send their research paper as per the track. The reviewers who are expert in specific track shortlist the papers of their participants. There shortlisted participants then present their papers in the conference. The reviewers Judge and select one paper per track for the “Best paper Award”. There are some rules which are followed for submitting the papers.

a) One paper can be written by more than one author.

b) One author can submit as many papers as he wants.

c)One reviewer can review the papers belonging to only one track which is allocated to him/her.

For the above scenario draw ER diagram & design the normalized (3NF) file layout.

1. Case Study:

Kohinoor hotel is in process of computerization of room, hall and venue booking and invoicing payment tracking system. This helps to minimize the ability to rent out empty rooms, hall and venue and prevents duplicate reservation. They have to indicate the period for which they need number of rooms, halls and venue. The reservation can be cancelled or the dates or number

of rooms, hall can be changed. For reservation, cancellation or modification of rooms, hall and venue customer receives an acknowledgment from hotel.

For the above case, draw the E - R diagram and normalized (3 NF) file layout

1. Write short Notes on
   1. Generalization & Specialization
   2. Referential Integrity Constraints

**Submission Date:**

**Prof. Anagha Sawant**

**Subject-Teacher**