MIT WORLD PEACE UNIVERSITY

Database Management Systems
Second Year B. Tech, Semester 4

DRAWING OF THE ENTITY RELATIONSHIP DIAGRAM

ASSIGNMENT NO. 1

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1 Aim

2 Objectives

3 Problem Statement

Requirements of the Company The Company is organized into:

1. DEPARTMENTs. Each department has a name, number and an employee who manages the department. We keep track of the start date of the department manager.

2. Each department controls a number of PROJECTS. Each project has a name, Number, and is located at a single location.

3. We store each EMPLOYEEs social security number, address, salary, sex and birthdate. Each employee works for one department but may work on several projects. We keep track of the number of hours per week that an employee currently works on each project. We also keep track of the direct supervisor of each employee.

4. Each employee may have a number of DEPENDENTS. For each dependent we keep track of their name, sex, birthdate, and relationship to the employee.

4 Theory

4.1 Entities

1. Company - Department

2. Department - Name, Number, Manager, Start Date

3. Projects - Name, Number, Location

4. Employees - SSN, Address, Salary, sex, Birthdate, Department, Supervisor, no. of hours per week.

5. Dependents - Name, sex, birthdate, Relationship.

5 Procedure

1. Ideentify the entities

2. Draw relationship table

3. Draw rough er diagram.

4. Draw each entity in depth, that have all the attributes.

5. Show the relationship with cardinality. If it is unary ternary etc.

5.1 Relationships

Relationships are mostly verbs, they are names of the columns.

1. Department

6 Conclusion

7   FAQ