ASSIGNMENT 4

Aim: Design and develop DB for "Order Management System" with all the constraints

Problem Statement: There must be atleast 3 entities and relationships between them. The statement should use sal objects such as Table, View, Index and Sequence. Draw Suitable ER diagram for system . Apply DCL and DDL commands to convert the diagram to tables

Objective:

- · To understand concept of ER diagram
- · To understand the details of basic ER model
- · To understand the technique for converting ER diagram Ento tables
- · Analyse the reflected constraints
- · To understand use of DDL, DCL

- · Basic concepts of ER diagram A database can be modelled as a collection of entities and relationship among entities. Entity is an object that exists and is distinguishable from other objects
- · Entity Set Set of entities of the same type that share the same properties
- · Attributes Entities have attributes . Eg :- people have name and address
- · Relationship An association among several entities
- · Mapping cardinality
 - i) one to one

99) One to many

911) Many to one sv) Many to many

· Symbolic notations - Rectangles, diamonds, lines, ellipses, double ellipses, dashed ellipses, underline

Extended Ex features :

- Specialization Top down process

 Attribute Inheritance a lower level entity set inherits

 all the attributes and relationship participation of the

 higher level entity set to which it is linked.
- 2) Generalization Bottom to top design process. Combine a number of entities sets that share same features into a higher level entity set.
- Aggregation Suppose we want to record managery for tasks performed by an employee at a branch

 Relationship sets works on o However works on relationship

 may not correspond to any manages it Eliminate

 this redundancy via aggregation.

Introduction to SQL

One of the fundamental building blocks of modern database architecture

SQL commands - i) Data Definition Language

Ii) Data Manipulation Language

i) treate table command

create table table name (col_name) data_type(size),

col_name2 data_type (size)...);

