Task-2: Generating Design for other traditional detalone Model. Aim: creating therarchial (wetwork model of the database by Enhancing the sound abstract data by pentorming billuoing tasks using forms of inheritance. A. Identify the specificity of Each relationship , find and form the Surplus relations. Entity identification: - Cricket Board has multiple learns - Team consists of multiple playery. - Match involves multiple teams and is played on a ground - Umpire supervise the motch. specificity Analysis: - Cricket Board - learn - one - to-many -team <> Player -> Many-to-Many -> team - Player. -match > team -> may - to-may -> motch - Team -Match es Ground -s one-to-one. Susptus Relations (Associative tables): -Team - Player (Team to, player 10) -Match - Team (match 10, Team 10) B. check is a hierarchy has -a hierarchy and Perform generalization and for specialization relationship. Generalization: In the ER diagram for the famil Nada coicket Board FINCH) described Earlier, we can identify potential of the generalizations based on common aftributes or relationships among entities. Here's an Example of a Possible generalization. Entities! player ompire. The above Entites have common attributes like first Above Sort_Name, lord_Name, Date_of_Birth, age, confact_No and Email.

Too potential Generalization: creates a super class alled "Person" to represent the common attributes shared by player and empire The "Person" entity would have the following attributes: Person_ID (Primary key) First_Name Cast - Name Date_of_Birth Age contact - Number Emeil player; Inherited attributes from "Person" and add specific attributes like Player_ID.

vompire: Inherited attributes from "Person" and add specific attributes like compire_ID. mpire Player umpire 12, player ID, FName, LName, FName, LName, Age Date of Birth, Age, Date of Birth, email, confact noemail, contact no, Role Generalization Deuson Person 1D, p Name, LName, Age, Date of Birth, email, contact no, Role:

By using generalization, we can reduce data redundancy. improve data integrity, and simplify the structure of the ER diagram. This approach also allows for easier maintenance and updates, as charges made to the after butter shared by all "Person" entities will be automatically reflected in the subclames. In the context of Entity - Relationship (ER) diagrams, specialization refers to process of defining subtypes within an entity type. It albus, to represent entities that have specific affibility of relationships distinct from general affibility of In the case of the Jamilnadu cricket Board Amociation, let's relationships of Parent entity. consider specialization of 'player' entity into two subly Per; "Batsman and "Bowler". This specialization is bosed on the specification soles that players can have in crictet Here's the modified ER diagram with specialization, Player Player 1), FName, L Name, Age, Date of Birth, email, contact-no. Bowler Batsman Basler - ID Batsman - 1D Baoling - avg. Batting - avg

gc) Find the domain of the attribute and perform check constraint to the applicable check constraint Example. Alfri bute Domain CHECK (Age >==18) Integer Age check (length (confact_1) Between 105,15) Contact_No VARCHAR (10-15) CHECK (Erroil (ike "1.6).1.-1.") Email Integen CHECK (capacity >0) capacity VARCHAR CHECK (Playing Role IN (Batman) Playing Role "Bowler", "All Rounda" "wicket - keeper,") SOL > ALTER TABLE Player ADD constraint check_con cHECK (age >= 18); Table affered. ed) Rename the relations: Renaming a table in sot can be accomplished using ALTER Table statement with the RENAME TO clause. The specific syntax for renaming tables vories slightly between different database management systems. Here's the syntax for renaming a column in Table: SOL > Alter table umpire RENAME column contact_no To Phone-no; Table altered. SOL - DESC ompire well ? Name VARCHAR 2 (10) umpir EID VARCHAR 2(30) TNAME NARCHAR 2(30) LNAME NUMBER (5,2) AGE There's < 102 DATE. DATE OF BIRTH

COUNTRY VARCHAR 2(30) EMAIL VARCHAR 2(40) NUMBER. PHONE-NO ae): Perform Sal Relations Using DDL, DCL commands Del stands for "Dota control language", which is a subset of SQL (structured Query language) und to control accord to data in a database. Dl Commands are responsible for managing user Permission, granting privileges, and controlling data security within a database system. There are two primary DCL command: Grant 9 mosso so nos los vi ellot p mag, Revoke many of the transfer The GRANT Command is used to Provide specific Privileges to users or soles, allowing them to Perform certain actions on database objects. Privileges may include SELECT, INSERT, UPDATE, DELETE, EXEGUTE, and more. sal > create user Ray identified by Kuman. User created. SQL > grant resource to ray; Grant succeeded. (61) & AND SALV SQL > grant create senion to say. Grant succeeded.

Enter user - name : raj Enter Paymord: connected. sal > create table emp (eno numbon, ename vanchan(10)). Table created. sal > conn system (manager connected. Sal > grant all on umpire to Raj: Grant succeeded. VEL TECH - CSE PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) TOTAL (20) SIGN WITH DATE

Thus the Hiefarchical mode and we work model has been successfully created.