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|  | **Assignment No. 03 SEMESTER Spring 2021**  **CS403- Database Management System** | **Total Marks: 20**  **Due Date: 27-07-2021** |
| **Solution**  **NAME: TAMKEEN SAJJAD**  **ID: MC200400003**  **Course: MIT**   1. Map the ER diagram to Relational data model and link the relations through primary key and **foreign key**.   Vistor(vis\_id, vis\_name, vis\_gender, vis\_cnic, vis\_address, vis\_email, vis\_conact)  Student(st\_id, st\_name, st\_gender, st\_cnic, st\_address, st\_email, st\_contact, st\_allottedRoom, **vis\_id, vo\_id**)  Complaint(comp\_id, comp\_type, comp\_date, comp\_time, **st\_id, hw\_id**)  Warden(hw\_id, hw\_name, hw\_gender, hw\_contact, hw\_email, hw\_address)  Attendance(att\_id, att\_time, att\_date, **hw\_id, st\_id, bil\_id, emp\_id**)  Messbill(bil\_id, bil\_time, bil\_date, amount, **st\_id, vis\_id, emp\_id**)  Admin(emp\_id, emp\_name, emp\_gender, emp\_email, emp\_contact, **bil\_id**, **vis\_id**)  Staff(stf\_id, stf\_name, stf\_gender, role, stf\_contact, stf\_email)   1. After mapping ERD to relational data model, you are required to write the SQL commands for each of the following statements. 2. Create a table named MessBill. You also have to define primary key and foreign key (if any).   CREATE TABLE messbill (  bil\_id INT NOT NULL PRIMARY KEY,  bil\_time DATETIME NOT NULL,  bil\_date DATETIME NOTNULL,  amount INT,  stu\_id INT FOREIGHN KEY PREFERENCE Student(st\_id),  vist\_id INT FOREIGHN KEY PREFERENCE Visitor(vis\_id),  adm\_id INT FOREIGHN KEY PREFERENCE Admin(ad\_id)  );   1. Change the name of column from **Amount** to **billAmount** in MessBill table.   ALTER TABLE messbill CHANGE amount billAmount;   1. Insert one record in Admin table having data against each column (emp\_ID: emp01, Ad\_name: Ahmad, ad\_Gender: Male, ad\_email: ahmad@gmail.com, ad\_contact: 03001234567).   INSERT INTO Admin (emp\_id, emp\_name, emp\_gender, emp\_email, emp\_contact)  VALUES (emp01, ‘Ahmed’, ‘Male’, ‘ahmed@gmail.com’, ‘0300-1234567’);   1. Delete all rows of table named Student.   DELETE FROM Student;   1. Show the student id and student name of all female students.   SELECT st\_id, st\_name FROM Student  WHERE st\_gender=’Female’; | | |