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| **ksuLOGOKing Saud University**  **College of Computer and Information Sciences**  **Department of Information Technology** | **IT 222 - Database Principles**  **2nd Semester 1436/37 H**  **Assignment # 5: DDL**  **Due Date: 10 - Apr** |
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| **Q1: Consider the following Book Rental database schema:**  **Student (**SID, SName, SMobile, Collage, Section, Level, SAddress, Email**)**  **Loan (**SID, ISBN, LDate, Lduration, Returned**)**  **Book (**ISBN, BName, Topic, Avalible\_copy, BType, ASSN**)**  **Author (**SSN, AName, AAddress**)**   1. **Give the SQL-DDL definitions for these database objects, use appropriate data types and include the following integrity constraints in the DDL definition:**     * Identify and include referential integrity constraints that should hold in this database.    * Student Name, Mobile, college and section is a mandatory field, and student default address is “Riyadh, KSU”.    * Book Type should be one of the following: book, journal or research. Topic is a mandatory field.    * The Loan duration should not exceed 14 day.    * A student cannot be deleted if he/she borrowed a book.    * An author cannot be deleted if he wrote a book.    * If we delete/update a book then we have to remove/update all loans belong to it. 2. **Give the SQL-DDL After defining these database objects apply the following:**     * Remove the default value for the Student Address.    * Define a view called **Authoring** consisting Author name, SSN, and the total number of book he/she wrote. | |