

DDL EXERCISE

Commands: CREATE TABLE, ALTER TABLE, DROP, TRUNCATE

Consider the following relations (schemas) for a database that keeps track of student enrollment in courses and the books referenced for each course.

STUDENT (ROLLNO, NAME, DEPARTMENTCODE, DOB, EMAIL, ADDRESS)
COURSE (CCODE, CNAME, DEPARTMENTCODE)
ENROLL (ROLLNO, COURSECODE, SEMESTER, GRADE)
TEXTBOOK (COURSECODE, SEMESTER, BOOK_ISBN)
BOOKDETAILS (BOOK_ISBN, TITLE, PUBLISHER, AUTHOR)

- (1) Identify the required key constraints and create tables for the above mentioned schemas.
- (2) Add a column named "PRICE" in BOOKDETAILS.
- (3) Add a check constraint in GRADE column in ENROLL table to restrict that it can hold only (O, A+, A, B+, B, RA).
- (4) Drop the column ADDRESS in STUDENT table.
- (5) What happens if the column ADDRESS in STUDENT table is dropped with "Cascade" option?
- (6) Create tables DEPARTMENT and BRANCH with the following schema
DEPARTMENT (Dcode, DNAME, DLOCATION, BRANCHCODE)
BRANCH (BRANCHCODE, BNAME)
- (7) Add a foreign key constraint to the STUDENT table for linking it with DEPARTMENT table. Give a name to your foreign key.
- (8) Difference between DROP table and TRUNCATE table
- (9) Add a NOT NULL constraint to the AUTHOR column in BOOKDETAILS table.
- (10) Add columns to BOOKDETAILS table named PUBLISHED_YEAR, EDITION and make it NOT NULL.
- (11) Display the constraint type and constraint name included in the table STUDENT.
- (12) Modify the datatype (or size) of the CNAME column in COURSE TABLE.
- (13) Rename the table BRANCH as BRANCH_DETAILS.
- (14) Rename the column DOB in STUDENT table as BIRTHDATE.
- (15) Drop BRANCH_DETAILS table with "Cascade" option.