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Subject: DBS

a)

EXAMPLE:(MUET CASE STUDY)

MUET contains many faculties. Each of the faculty is identified by a unique faculty ID number. And has a name.

There are many departments in each of the faculty. Each department has a unique department ID number and a name.

Every teacher has a unique teacher ID, name, father's name, mobile number, CNIC number and is associated with one of the department.
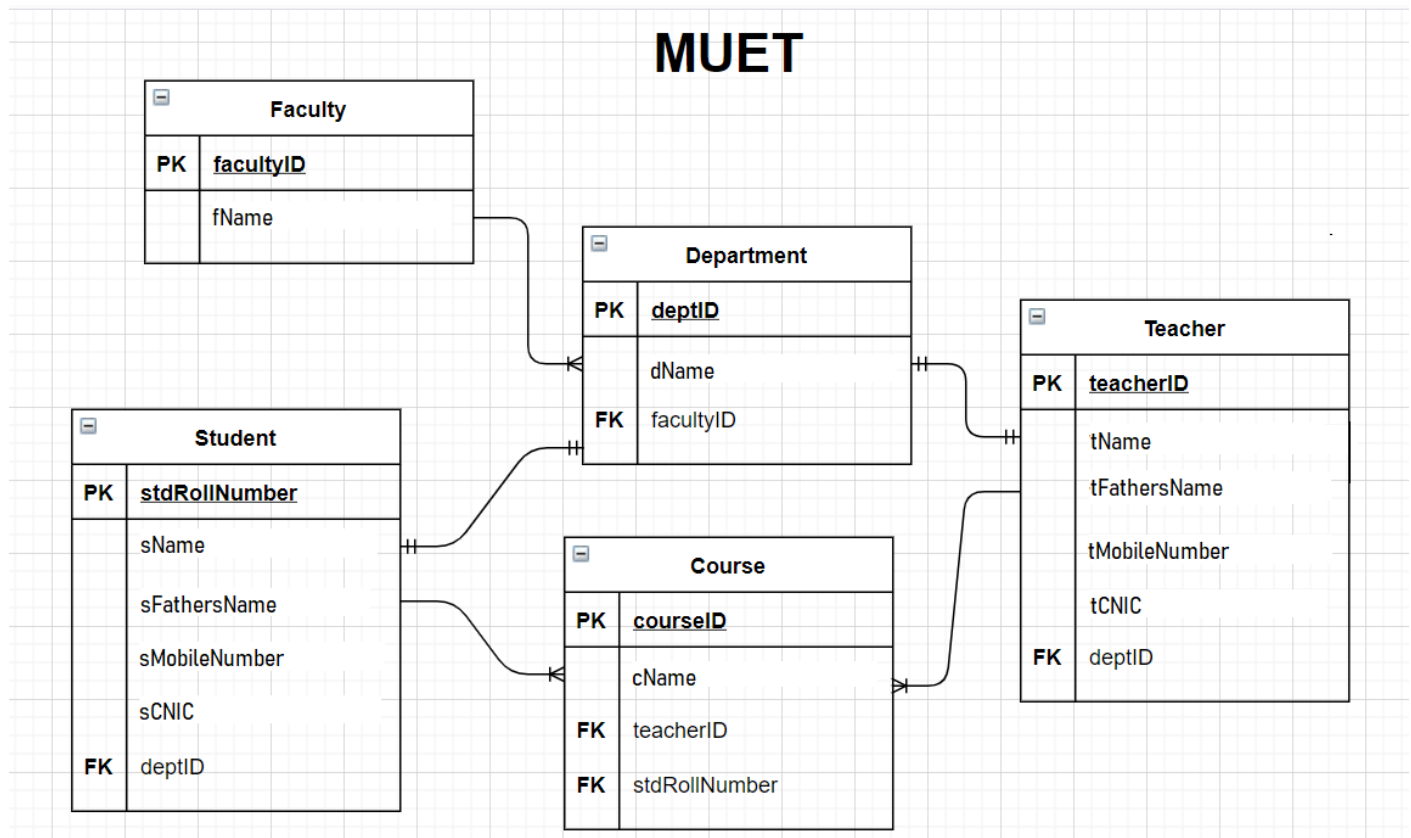
Every student has a unique roll number, name, father's name, mobile number, CNIC number and is associated with one of the department.

A teacher can teach multiple courses during a session.

A student can take multiple courses during the session.

Every course is identified by a unique course ID number and has course name.

Ans:

b) convert the entitites into tables and attributes in columns of the table.

Below diagram shows that the tables are in normalized form

Perform Combining Tables method on the tables shown in diagram

FacID	Facname

st_ID	st_name

c_id	c_name

T_ID	T_name

Deptno	dname

Ans:

MUET

Faculty

facultyID	fName

Department

deptID	dName	facultyID

Student

stdRollNumber	sName	sFathersName	sMobileNumber	sCNIC	deptID

Teacher

teacherID	tName	tFathersName	tMobileNumber	tCNIC	deptID

Course

courseID	cName	teacherID	stdRollNumber
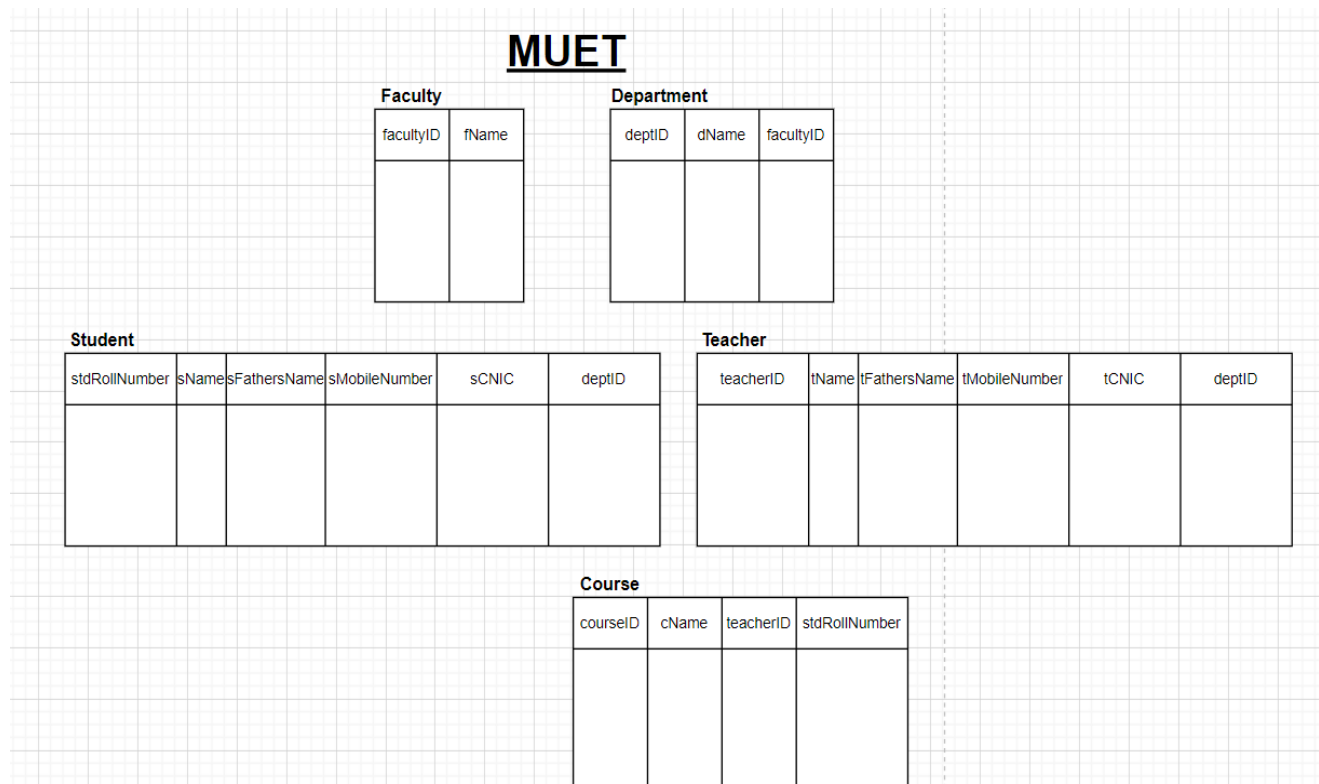
c) To convert it in denormalization, combine all the tables to make it a single table

FacID	Facname	Deptno	dname	T_ID	T_name	st_ID	st_name	c_id	c_name

Ans:

MUET

Denormalized Table

facultyID	fName	deptID	dName	stdRollNumber	sName	teacherID	tName	courseID	cName	sFathersName	sMobileNumber	sCNIC	tFathersName	tMobileNumber	tCNIC