Name:_____   Roll Number: _____

Draw ERD with entities, attributes, relationships including cardanility & participation.

Case 1:
A University has many departments
Each Department has multiple instructors.
One of the Instructors is the head of the department.
One Instructor belongs to only one department
Each depatment offers multiple courses.
Each course is taught by a single instructor.
An instructor may teach more than one course.
A Student may enroll in many courses offered by different departments.

Case 2:
In a particular city
There are multiple banks and each bank has multiple branches.
Each branch has multiple customers.
Customers can have different types of accounts
Customers can take different types of loans from the bank branch
One customer can have more than 1 accounts and loans

Case 3:
A store wants to keep track of all its musical albums.
Musical albums have a title, price, a unique identifier as albumid.
There are artists who create albums. We save artist's name and cnic for our records.
One artist can create multiple albums. But one album can only belong to a single artist.
One album can be of a specific genre.
Genre has genereid, name and description.
A single Genre can be of multiple albums.

Name:_____   Roll Number: _____

Reduce the following ERD to Relational Schema