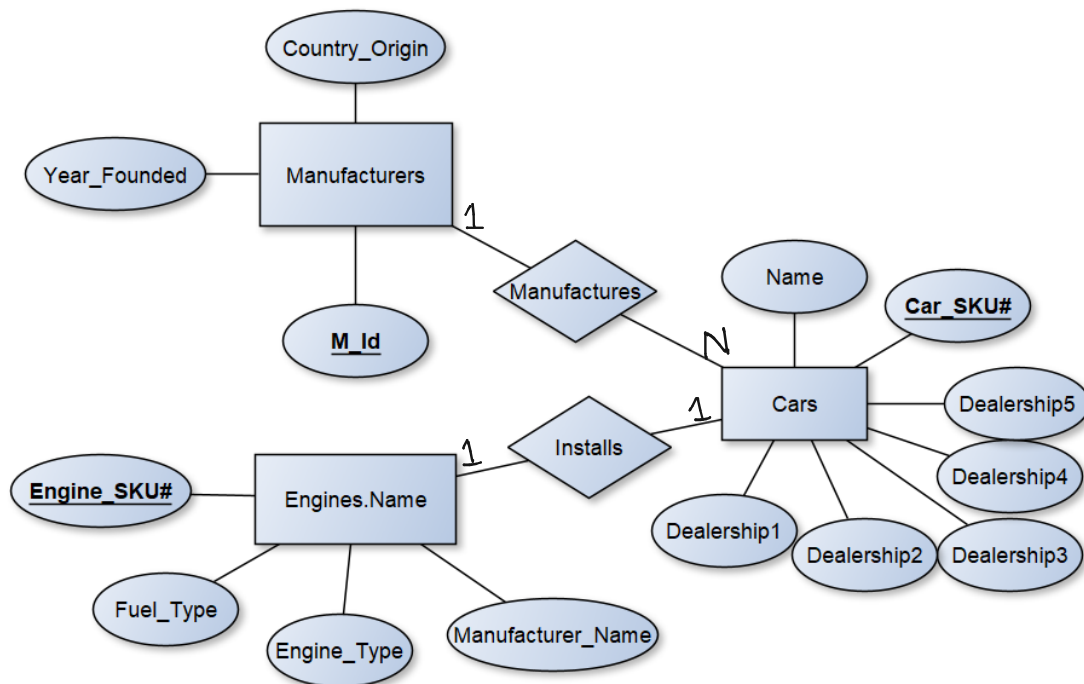- **DB1 Car Inventory**

ER Model for DB1

DB1-Relational

Manufacturers

M_Id	Country_Origin	Year_Founded

Cars

Car_Sku#	Name	Dealership1	Dealership2	Dealership3	Dealership4	Dealership5	ManufacturerID	EngineID

Engine.Name

Engine_Sku#	Fuel_Type	Engine_Type	Manufacturer_Name

DB1-SQL
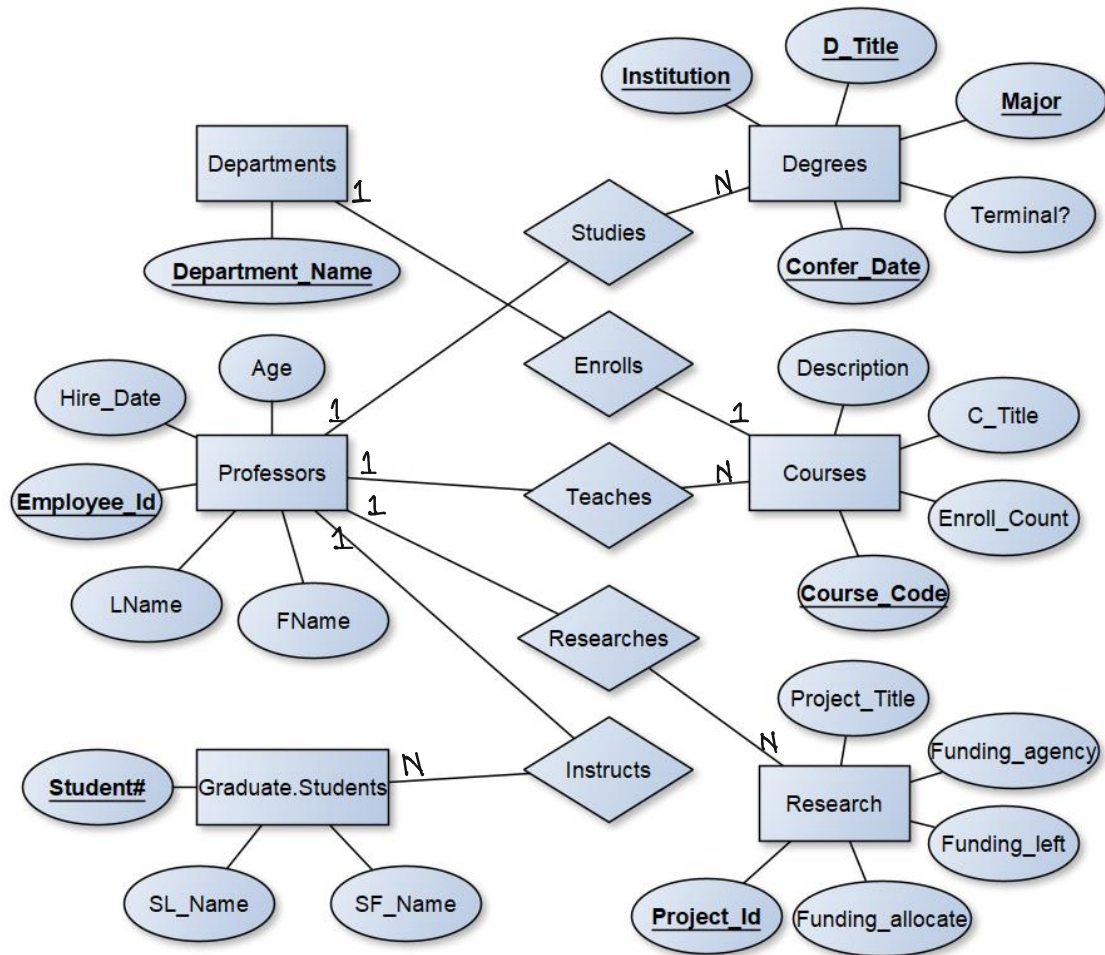
Create table Manufacturers (M_Id integer primary key, Country_Origin text, Year_Founded integer)

Create table Cars (Car_Sku# integer primary key, Name text, Dealership1 text, Dealership2 text, Dealership3 text, Dealership4 text, Dealership5 text, ManufacturerID integer foreign key references Manufacturers.M_Id, EngineID integer foreign key references Engine.Name.Engine_SKU#)
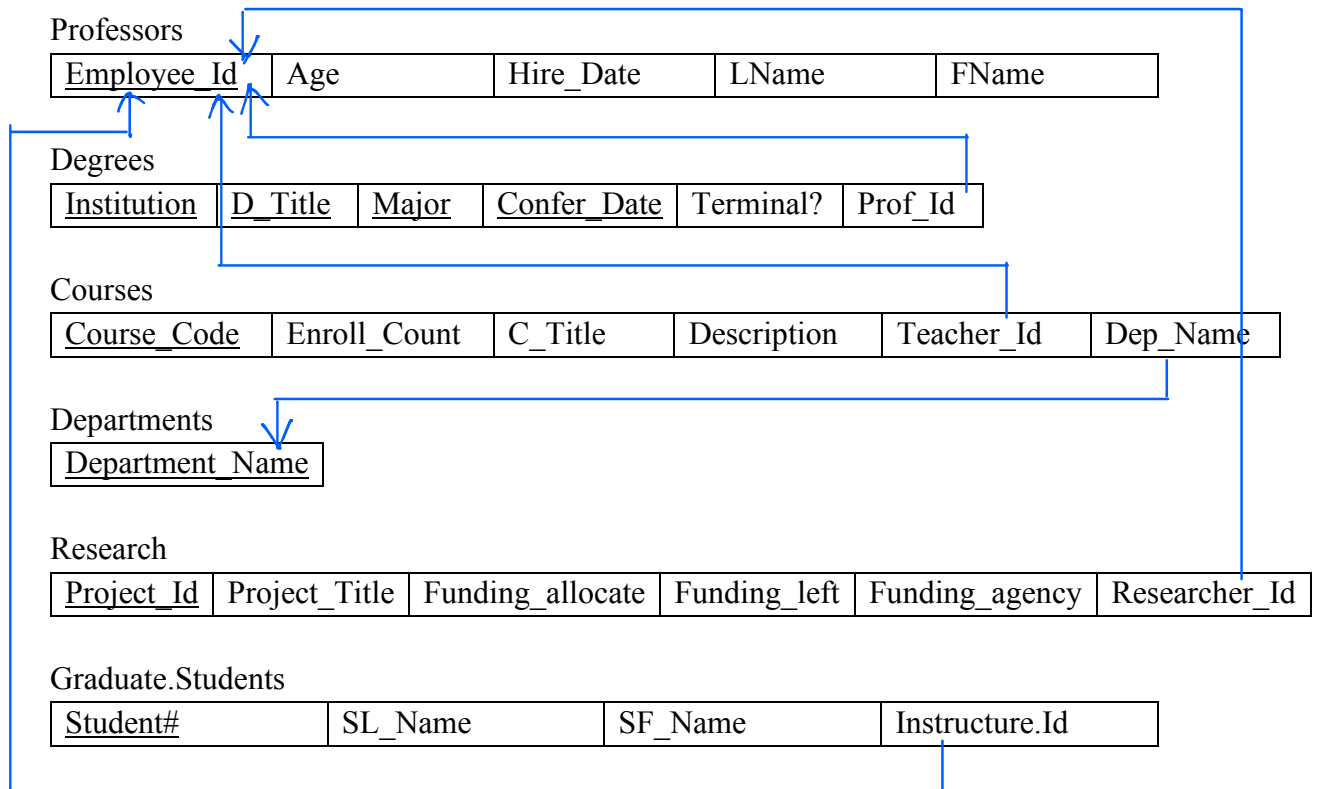
Create table Engine.Name (Engine_Sku# integer primary key, Fuel_Type text, Engine_Type text, Manufacturer_Name text)

ER Model for DB2

DB2-Relational

Professors

Employee_Id	Age	Hire_Date	LName	FName

Degrees

Institution	D_Title	Major	Confer_Date	Terminal?	Prof_Id

Courses

Course_Code	Enroll_Count	C_Title	Description	Teacher_Id	Dep_Name

Departments

Department_Name

Research

Project_Id	Project_Title	Funding_allocate	Funding_left	Funding_agency	Researcher_Id

Graduate.Students

Student#	SL_Name	SF_Name	Instructure.Id

DB2-SQL

Create table Professors (Employee_Id integer primary key, Age integer, Hire_Date text, LName text, FName text)

Create table Degrees (Institution text, D_Title text, Major text, Terminal? text, Confer_Date text, Prof_Id integer foreign key references Professors.Employee_Id, primary key(Institution, D_Title, Major, Confer_Date))

Create table Courses (Course_Code integer primary key, Enroll_Count integer, C_Title text, Description text, Teacher_Id integer foreign key references Professors.Employee_Id, Dep_Name text foreign key references Departments.Department_Name)

Create table Research (Project_Id integer primary key, Project_Title text, Funding_allocate real, Funding_left real, Funding_agency text, Researcher_Id integer foreign key references Professors.Employee_Id)

Create table Graduate.Students (Student# integer primary key, SL_Name text, SF_Name text, Instructure.Id integer foreign key references Professors.Employee_Id)

Create table Departments (Department_Name text primary key)