1. I will do a project for a small university and focus on student records.
2. The university has 5 professors and 40 students. Each professor teaches 3 classes and every student has to take either 4 or 5 classes each semester. They will get grades for every class and the database will store the grades for 2 years back in time as it is a relatively new school. The school also has information like email, siblings (for future admission) and state of residence. It also has information about tuition balance.

Professors(**FacultyID**, department, last name, first name, address)

Classes(**CourseID**, ClassName**,** *FacultyID,* Room#, Date*)*

Student(**StudentID**, last name, first name, major, email, state) tied to Sibling(**Number**, firstName, age)

Transcript(***StudentID*, *CourseID***, Grade)

|  |
| --- |
| Billing |
| BillNumber (PK Surr): NOT NULL  StudentID (Foreign): NOT NULL  Date (foreign): NOT NULL  TotalAmount (foreign): NOT NULL  OutstandingBalance: NOT NULL |

|  |
| --- |
| Transcript (Keep if parent is deleted) |
| StudentID(CK)(Foreign): NOT NULL  CourseID(CK)(Foreign): NOT NULL  Grade: NOT NULL |

|  |
| --- |
| Student |
| StudentID(PK Surr): NOT NULL  LastName: NOT NULL  FirstName: NOT NULL  Major: NULL  Email (AK1.1): NULL  State: NULL |

|  |
| --- |
| Course |
| CourseID(PK Surr): NOT NULL  ClassName: NOT NULL  FacultyID(Foreign): NOT NULL  RoomNumber: NULL  Date: NOT NULL |

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| --- |
| Sibling (MAYBE NOT HAVE ONE OF THE CK NULL) |
| StudentID (CK)(Foreign)  SiblingFirstName(CK): NULL  SiblingAge: NULL |

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| --- |
| Professor |
| FacultyID(PK Surr): NOT NULL  Department: NOT NULL  LastName: NOT NULL  FirstName: NOT NULL  Email (AK1.1): NULL  Phone (AK2.1): NULL |

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| --- |
| PriceList |
| Date(PK): NOT NULL  TotalAmount: NOT NULL |

Each student is billed each semester

Each student has 0 or more siblings.

Each sibling has 1 or more student siblings

Each professor teaches 3 classes.