**SQL Database Foundations 1**

DBF part 1-1

* no assignment

DBF part 1-2

1. ABC school district would need the following data to be stored for its registration system:

| * 1. Student Name | * 1. Student Preferred Name |
| --- | --- |
| * 1. Preferred Pronouns | * 1. Student Date of Birth |
| * 1. Student Address | * 1. Student Phone Number |
| * 1. Student Email | * 1. Emergency Contact |
| * 1. Student Class Schedule | * 1. Graduation Requirements |
| * 1. Medical Conditions | * 1. Allergies |

1. XYZ Library would need the following data to run their Library management system:

**Payroll**

| * 1. Employee Name | * 1. Employee Address |
| --- | --- |
| * 1. Employee Date of Birth | * 1. Employee Social Security # |
| * 1. Employee Phone # | * 1. Employee Email Address |
| * 1. Employee Pay Rate | * 1. Employee Time cards |

**Accounts Payable/Accounts Receivable**

| * 1. Invoice order numbers | * 1. Invoice items |
| --- | --- |
| * 1. Invoice payments | * 1. Invoice due dates |
| * 1. Outgoing Payment amounts | * 1. Outgoing payment Id numbers |
| * 1. Outgoing payment Names | * 1. Outgoing Payment Dates |
| * 1. Financial Institution Info |  |

**Customer Information**

| * 1. Customer Name | * 1. Customer Address |
| --- | --- |
| * 1. Customer Date of Birth | * 1. Customer Library Card Number |
| * 1. Customer Phone # | * 1. Customer Email Address |
| * 1. Customer Current items on loan |  |

**Inventory Management**

| * 1. Book name | * 1. Book Title |
| --- | --- |
| * 1. Book Author | * 1. Book ISDN # |
| * 1. Current Status | * 1. Current Due Date of return |

DBP part 1-3

Tasks

1.

1. Hierarchical
2. Network Model
3. Object Oriented
4. Relational
5. Relational

DBP part 1-4

1. Business rules: 3 memberships types corporate, studenty, individual

Constraints: Justification needed for membership swap

1. Business rules: Every patient receives and unique Id number starting with DC, each patient gets one starting with PT

Constraints: Doctors must have minimum 7 years experience. Patients must register on first visit