|  |
| --- |
| Customers |
| -customer\_id (PK)  -name  -address  -phone  -ssn |

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Q1.

|  |
| --- |
| Account |
| -account\_id (PK)  -account\_type  -balance |

Owns

CREATE TABLE Customers (

customer\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100),

address VARCHAR(255),

phone VARCHAR(15),

ssn CHAR(9)

);

CREATE TABLE Accounts (

account\_id INT AUTO\_INCREMENT PRIMARY KEY,

account\_type VARCHAR(20),

balance DECIMAL(15, 2)

);

CREATE TABLE CustomerAccount (

customer\_id INT,

account\_id INT,

PRIMARY KEY (customer\_id, account\_id),

FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id),

FOREIGN KEY (account\_id) REFERENCES Accounts(account\_id)

);

Q2.

A diagram of a course

Description automatically generated

CREATE TABLE Departments (

name VARCHAR(50) PRIMARY KEY,

chair VARCHAR(100)

);

CREATE TABLE Courses (

number INT PRIMARY KEY,

room VARCHAR(50),

dept\_name VARCHAR(50),

FOREIGN KEY (dept\_name) REFERENCES Departments(name)

);

CREATE TABLE LabCourses (

number INT PRIMARY KEY,

computer\_allocation VARCHAR(50),

FOREIGN KEY (number) REFERENCES Courses(number)

);

A diagram of a family diagram

Description automatically generated

CREATE TABLE Person (

person\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100),

address VARCHAR(255)

);

CREATE TABLE ChildOf (

child\_id INT,

father\_id INT,

mother\_id INT,

PRIMARY KEY (child\_id),

FOREIGN KEY (child\_id) REFERENCES Person(person\_id),

FOREIGN KEY (father\_id) REFERENCES Person(person\_id),

FOREIGN KEY (mother\_id) REFERENCES Person(person\_id)

);

CREATE TABLE Married (

father\_id INT,

mother\_id INT,

PRIMARY KEY (father\_id, mother\_id),

FOREIGN KEY (father\_id) REFERENCES Person(person\_id),

FOREIGN KEY (mother\_id) REFERENCES Person(person\_id)

);

Q3.

A screenshot of a computer

Description automatically generated