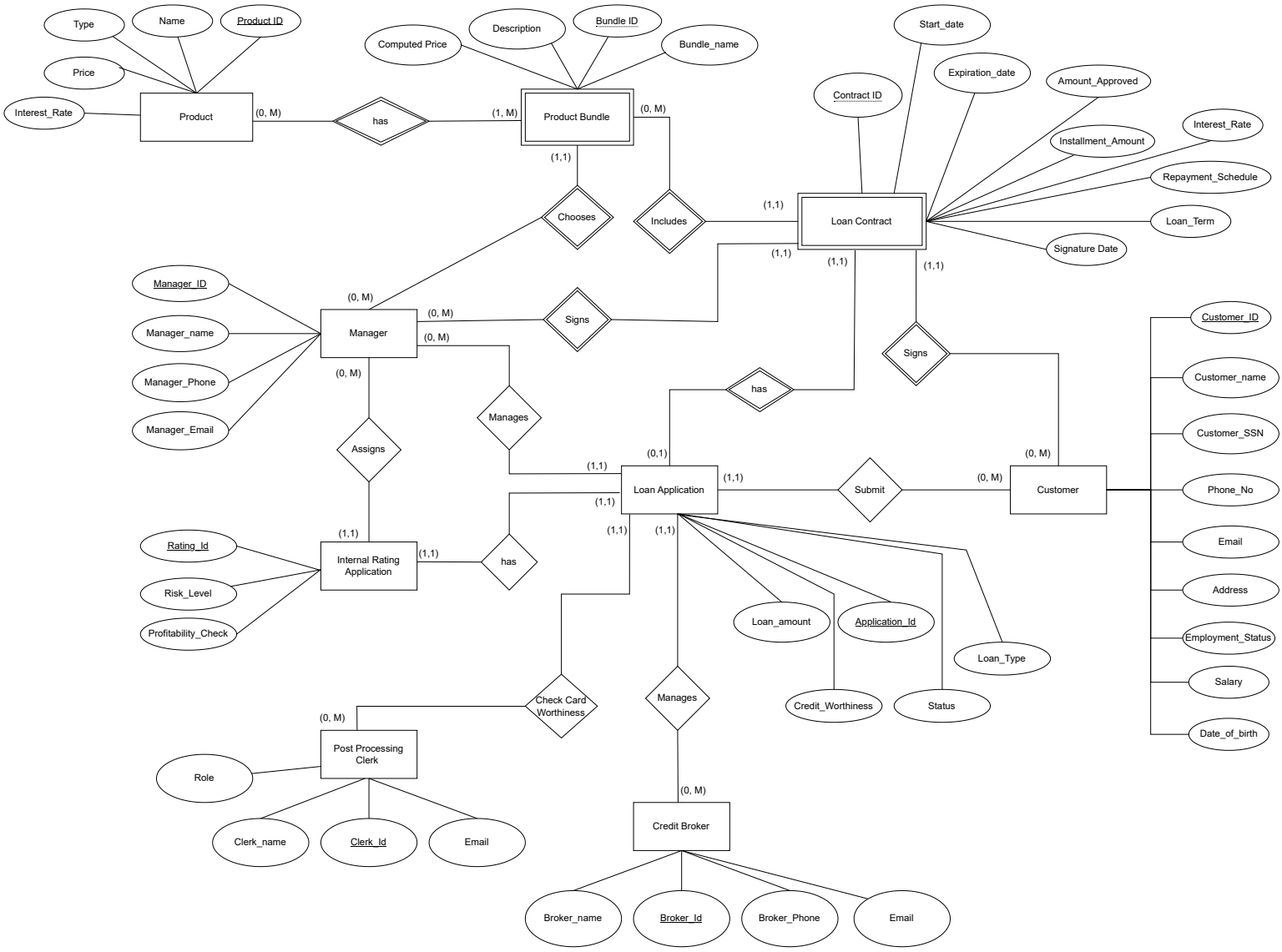
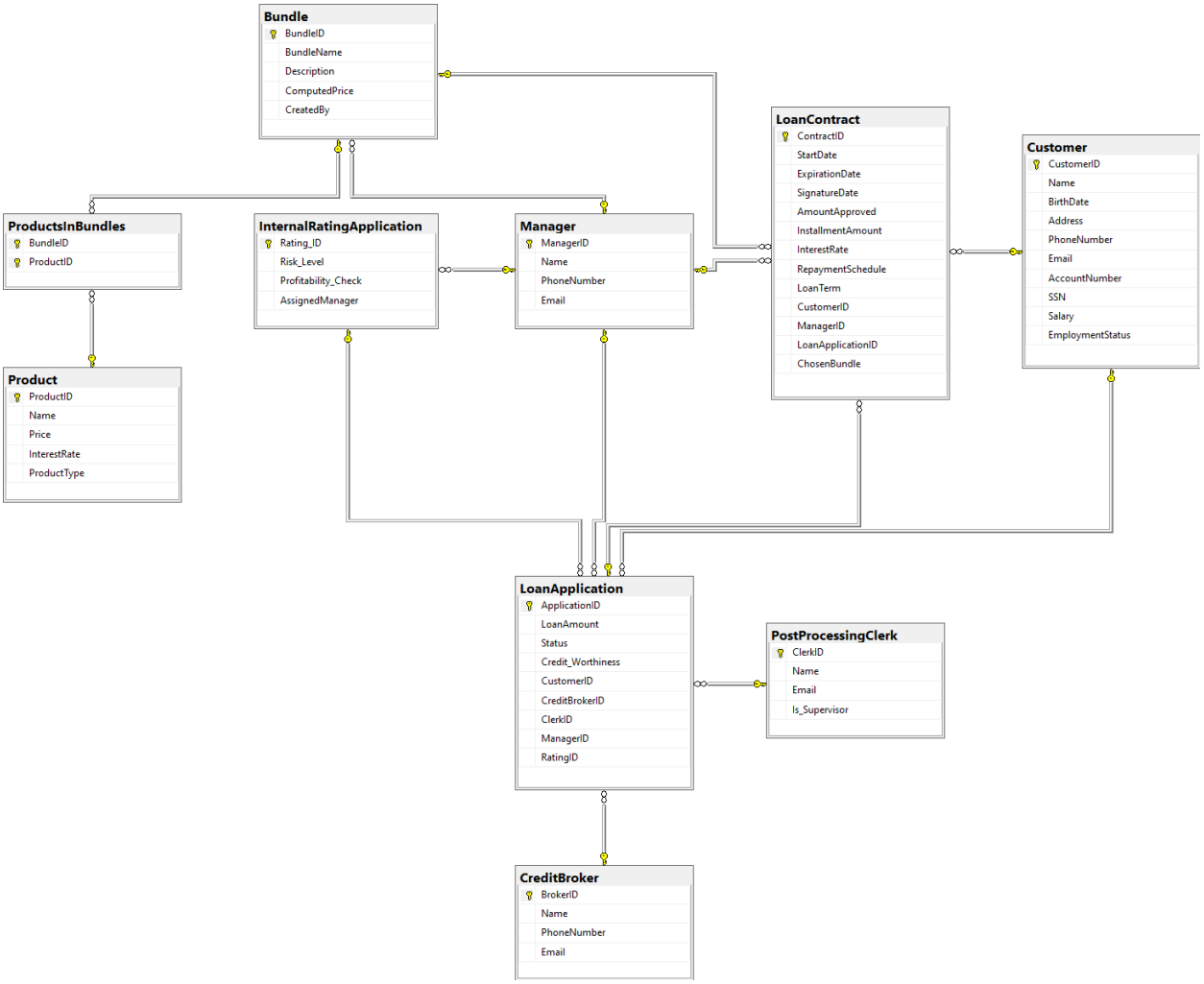

Type
Name
Product ID
Price
Interest_Rate
Product
(0, M)
has
(1, M)
Computed Price
Description
Bundle ID
Bundle_name
Product Bundle
(0, M)
(1,1)
Chooses
Includes
(1,1)
Start_date
Contract ID
Expiration_date
Amount_Approved
Interest_Rate
Installment_Amount
Repayment_Schedule
Loan_Term
Signature Date
Loan Contract
(1,1)
(1,1)
(1,1)
Manager_ID
Manager_name
Manager_Phone
Manager_Email
(0, M)
Manager
(0, M)
(0, M)
Signs
(0, M)
(0, M)
Assigns
Manages
has
Signs
(0,1)
(1,1)
Loan Application
(1,1)
Submit
(0, M)
Customer
Customer_ID
Customer_name
Customer_SSN
Phone_No
Email
Address
Employment_Status
Salary
Date_of_birth
Rating_Id
Risk_Level
Profitability_Check
(1,1)
Internal Rating Application
(1,1)
has
(1,1)
(1,1)
Loan_amount
Application_Id
Loan_Type
Credit_Worthiness
Status
Check Card Worthiness
Manages
(0, M)
Post Processing Clerk
Role
Clerk_name
Clerk_Id
Email
(0, M)
Credit Broker
Broker_name
Broker_Id
Broker_Phone
Email

Relational Schema:



SQL File:

```
Create database CreditSalaried

CREATE TABLE Customer (
    CustomerID INT PRIMARY KEY,
    Name VARCHAR(100) NOT NULL,
    BirthDate DATE,
    Address VARCHAR(200),
    PhoneNumber CHAR(11),
    Email VARCHAR(100),
    AccountNumber VARCHAR(20) UNIQUE,
    SSN CHAR(14) UNIQUE NOT NULL,
    Salary DECIMAL(15, 2),
    EmploymentStatus VARCHAR(50)
);

CREATE TABLE CreditBroker (
    BrokerID INT PRIMARY KEY,
    Name VARCHAR(100) NOT NULL,
    PhoneNumber VARCHAR(11),
```

```
    Email VARCHAR(100)
);

CREATE TABLE PostProcessingClerk (
    ClerkID INT PRIMARY KEY,
    Name VARCHAR(100) NOT NULL,
    Email VARCHAR(100),
    Is_Supervisor bit NOT NULL DEFAULT 0
);

CREATE TABLE Manager (
    ManagerID INT PRIMARY KEY,
    Name VARCHAR(100) NOT NULL,
    PhoneNumber VARCHAR(11),
    Email VARCHAR(100) NOT NULL,
)



CREATE TABLE InternalRatingApplication (
    Rating_ID INT PRIMARY KEY,
    Risk_Level VARCHAR(50) NOT NULL,
    Profitability_Check bit,
       AssignedManager INT REFERENCES Manager(ManagerID),
);

CREATE TABLE Product(
    ProductID INT PRIMARY KEY,
    Name VARCHAR(100) NOT NULL,
    Price DECIMAL(10, 2),
    InterestRate DECIMAL(5, 2),
    ProductType VARCHAR(50)
)



CREATE TABLE LoanApplication(
    ApplicationID INT PRIMARY KEY,
    LoanAmount INT,
    Status VARCHAR(15) NOT NULL,
    Credit_Worthiness INT,
    CustomerID INT NOT NULL,
    CreditBrokerID INT,
    ClerkID INT,
    ManagerID INT,
    RatingID INT,
    CONSTRAINT fk_Customer FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),
    CONSTRAINT fk_CreditBroker FOREIGN KEY (CreditBrokerID) REFERENCES
CreditBroker(BrokerID),
    CONSTRAINT fk_Clerk FOREIGN KEY (ClerkID) REFERENCES PostProcessingClerk(ClerkID),
    CONSTRAINT fk_Manager FOREIGN KEY (ManagerID) REFERENCES Manager(ManagerID),
    CONSTRAINT fk_RatingID FOREIGN KEY (RatingID) REFERENCES
InternalRatingApplication(Rating_ID),
    CONSTRAINT check_loan_amount CHECK (LoanAmount >= 1000 AND LoanAmount <= 30000000)
)

CREATE TABLE Bundle(
       BundleID INT PRIMARY KEY,
```

```
	BundleName VARCHAR(50) NOT NULL,
	Description VARCHAR(300),
	ComputedPrice INT NOT NULL,
	CreatedBy INT REFERENCES Manager(ManagerID)
)

CREATE TABLE ProductsInBundles(
	BundleID INT,
	ProductID INT,
	PRIMARY KEY(BundleID, ProductID),
	FOREIGN KEY (BundleID) REFERENCES Bundle(BundleID),
	FOREIGN KEY (ProductID) REFERENCES Product(ProductID)
)



CREATE TABLE LoanContract (
	ContractID INT PRIMARY KEY,
	StartDate DATE NOT NULL,
	ExpirationDate DATE NOT NULL,
	SignatureDate DATE NOT NULL,
	AmountApproved INT NOT NULL,
	InstallmentAmount INT NOT NULL,
	InterestRate  DECIMAL(5, 2) NOT NULL,
	RepaymentSchedule VARCHAR(25) NOT NULL,
	LoanTerm VARCHAR(25) NOT NULL,
	CONSTRAINT check_approved_amount CHECK (AmountApproved >= 1000 AND AmountApproved
<= 30000000),
	CustomerID INT REFERENCES Customer(CustomerID) NOT NULL,
	ManagerID INT REFERENCES Manager(ManagerID) NOT NULL,
	LoanApplicationID INT REFERENCES LoanApplication(ApplicationID) NOT NULL,
	ChosenBundle INT REFERENCES Bundle(BundleID) NOT NULL
)
```