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Section: 001

I will finish this project independently.

Database System Project Part 1

Entity Type:

Account

Account\_id(Primary Key)

Account\_name

StartDate

Acc\_state

Acc\_city

Acc\_zip

Acc\_addr

Company

Company\_code(Primary Key)

Comp\_name

Comp\_phone

Comp\_addr

Customer

Customer\_ssn(Primary Key)

Cus\_Lname

Cus\_Fname

Cus\_addr

Cus\_phone

Billing

Billing\_id(Primary Key)

BC\_naem

BC\_addr

BC\_zip

BC\_state

BC\_city

Associate

Associate\_ssn(Primary Key)

Asso\_Lname

Asso\_Fname

Asso\_phone

Asso\_addr

ManagerContract

ManagerContract\_Num(Primary Key)

Con\_type

Status

Start\_date

Expire\_date

Duration

Contract\_Premium

Pre\_num(Primary Key)

Pre\_name

Pre\_Sdate

Pre\_Edate

Pre\_duration

Relation:

Company\_Account:

Each Account can zero to one company (0:1)

Each company can have no account or more than one account (0:N)

(Not all company have an account, and not all accounts are company account)

Billing\_account

Each account must have one billing account also can have more than one (1:N)

Each billing account can related to one or more account (1:N)

(All account must have many payment methods, A billing account can pay for more account)

Customer\_Account

Each customer can have zero or more account (0:N)

Each account can belong to no customer or one (0:N)

(Some account are company account so these account don’t have related customer. Some customers are not account creator or they can get benefits from insurance, so they don’t have a account)

Account\_contract

Each account can have more than one plan so they have one or more contract (1:N)

Each contract is only signed by one account (1:1)

(One account can buy more insurance but on insurance can only be bought by one account)

Associate\_Contract

Each associate responsible for many contract (1:N)

Each contract have only one associate (1:1)

(Associate can sell many insurance, each contract are only take by one associate)

License

Each license must and only belong to one associate(1:1)

Associate have to have a license or have many kinds of license (1:N)

Premium\_ManagerContract

Each premium are belong to one contract (1:1)

Contract can have zero or more premium (0:N)

(All premium contracts are belong to a normal contract, on contract can related to many premium )

Associate\_Pre

An associate can be responsible for one premium contract or none (0:N)

Each premium contract can only have one active associate

(A premium contract have only one associate, but the associate related to premium can be changed.)

Contract\_benefit\_customer

Customer can get benefit form zero or many contract (0:N)

A contract must have one benefit customer or many customer (1:N)

Pre\_benefit\_customer

Customer can get benefit form zero or many premium contract (0:N)

A premium contract must have one benefit customer or many customer (1:N)