Name: Zhang, Zejun Date: 11/2/2023

NYU ID: zz4140

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Project Part 1

**Total in points** (100 points total):

**Professor’s Comments**:

**Entity&Attribute**: There are 15 entities within my ER diagram, and each of them has some attributes.

1. Production Credit: This is a part of ContractPremium

2. Associate Commissions: This is another part of ComtractPremium

3. ContractPremium: The premium of contract is the margin of a contract for the insurance company.

4. ContractBenefit: ContractBenefit is the benefits a customer gains

5. ManagerContract: This is the insurance contract itself

- ContractNumber

- ActivityStatus

- BillingMethod

6. Associate-h: The insurance agent that sell and offer service to customers

- Name

- Middle Initial

- DOB

7. Product-h: Difference insurance products/services that offered by this insurance company

- Description

- SeriesName

8. Invoice: Each purchase causes an invoice

- Invoice Detail Activity

- InvoiceNumber

- PaidDate

9. Claims: When customer need the service from insurance company, they start a claim and the use claim# to track the services’ completion.

- Claim#

- ClaimDate

- SettleDate

10. Customer: Customer/Purchasers, all the beneficiaries are customers.

- Name

- gender

- DOB

- SSN

11. AccountMember: Customers can be added as an account member even if the insurance plan is not bought by themselves.

12. Account-h: One insurance plan purchased has one insurance account.

- Account Name

- Address

- CompanyCode

13. BillingAccount-h: The account(s) pay for the insurance account.

- BAccount Name

- Billing Address

14. AccountAdmin: The admin of one account can be the administrators from the customers’ company, insurance company, and third-part superintendent(government).

- RelationshipType

**Relation**:

1. Relationship between ContractPremium and PremiumCode, labeled as "has", and one ContractBenefit can have multiple ContractPremium

2. Relationship between Customer and ContractBenefit, labeled as "benefit", one customer can be benefited by multiple ContractBenefit, and one ContractBenefit can also benefit multiple customers.

3. Relationship between ManagerContract and Associate-h, labeled as "Manages", one associate(agent) manages multiple ManagerContract.

4. Relationship between ManagerContract and ContractBenefit, labeled as "Gains", one ManagerContract gains multiple ContractBenefit.

5. Relationship between ManagerContract and Customer, labeled as "Owns", one customer can own multiple ManagerContract, and one ManagerContract can be owned by multiple customers.

6. Relationship between Product-h and ManagerContract, labeled as "belongs to", multiple ManagerContract belongs to Product-h.

7. Relationship between Product-h and Associate-h, labeled as "sell”, one associate sell multiple products, and one product can also be sold by multiple associates.

8. Relationship between ManagerContract and Account-h, labeled as "Serve", one insurance account can be served by multiple ManagerContract, and one ManagerContract can serve multiple account simultaneously.

9. Relationship between ManagerContract and Product-h, labeled as "View", one insurance account can view multiple products.

10. Relationship between Invoice and Customer, labeled as "Initiate", one customer can initiate multiple invoice.

11. Relationship between Claims and Customer, labeled as "initiate", one customer can initiate multiple claims.

12. Relationship between Customer and AccountMember, labeled as "is", one customer is one AccountMember.

13. Relationship between Account-h and AccountMember, labeled as "has", one account can has multiple AccountMember.

14. Relationship between Account-h and BillingAccount-h, labeled as “Account\_BillingAccount”, one account can bill multiple BillingAccount, and one BillingAccount can be billed by multiple account.

15. Relationship between Account-h and AccountAdmin, labeled as "Acct\_AcctAdmin", one account can administrated by multiple AccountAdmin, and one AccountAdmin can administrate multiple account.