|  |  |  |  |
| --- | --- | --- | --- |
| **Entities** | **Synonyms** | **Attributes** | **Others** |
| Salon |  |  |  |
| Beauticians | Employees, Managers |  |  |
| Customer |  |  |  |
| Salon Service | Hair cut, Spa, color | Service\_Type |  |
| Products |  |  |  |
| Appointment |  |  |  |
| Membership\_Type |  |  |  |
| Payment | Cash, Credit Card and Check |  |  |
| Rewards |  | Reward\_Type |  |
| Invoice |  |  |  |
| Certifications |  |  |  |
| Promotion |  |  |  |

**Business Rules**

A Customer may receive one to more salon services,

Each salon service must be related to a customer.

A Customer can generate zero to many invoices

Each invoice is related to one customer

Each salon hires one to many beauticians

Each beautician is hired by one salon

Each Salon generates one to many invoices

Each invoice belongs to one salon

Each beautician can have one to many beauty certifications

Each beauty certificate belongs to one beautician.

Each salon has zero to one beautician acting as its manager

An beautician could be the manager of at most one salon

Each customer books zero to many appointments

Each appointment is booked by only one customer

Each salon may have zero to many appointments

Each appointment belongs to one salon

Each beautician provides zero to many services(1,10)

Each service is provided by one beautician

Each beautician earns zero to many rewards

Each reward is earned by one beautician

Each membership type can have zero to many customers

Each customer belongs to one and only membership type

Each membership type can receive one to many promotions

Each promotion belongs to one membership types

An invoice includes one to many service types

Each service type is included in many invoices

An invoice includes one to many Invo\_Lineitems

Each Invo\_Lineitems relates to only one invoice

A service appears in zero to many Invo\_Lineitems

Each Invoice Line Items includes only one services

An invoice includes one to many products

Each product is included in many invoices

An invoice includes one to many Invo\_Lineitems

Each Invo\_Lineitems relates to only one invoice

A product appears in zero to many Invo\_Lineitems

Each Invoice Line Items includes only one product

A customer owns zero to many credit cards

Each credit card is owned by only one customer

An invoice is paid with zero to many credit cards

Each credit card is used to pay for zero to many invoices

An invoice is related to zero to many CC\_Payments

Each CC\_Payment is related to only one invoice

A credit card is related to zero to many CC\_Payments

Each CC\_Payment is related to only one credit card

Each Invoice Line Items includes only one product

A customer writes zero to many checks

Each check is written by only one customer

An invoice is paid with zero to many checks

Each check is used to pay for zero to many invoices

An invoice is related to zero to many Check\_Payments

Each Check\_Payment is related to only one invoice

A check is related to zero to many Check\_Payments

Each Check\_Payments is related to only one check

A customer writes zero to many cash payments

Each cash payment is made by only one customer

An invoice is paid with zero to many cash payments

Each cash payment is used to pay for zero to many invoices

An invoice is related to zero to many Cash payment

Each Cash payment is related to only one invoice

A Cash\_payment is related to zero to many Cash\_payment

Each Cash\_payment is related to only one Cash\_payment