Assignment 2

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**Business Rules:**

1. Each item at least should belong to one and only one category.
2. Each item can belong to more than one case.
3. Each item can be on sale or not.
4. We can have 0 or more of each item.
5. Each item has a unique SKU number.
6. Each invoice should contain customer information.
7. Each invoice can have 1 or more item.
8. Each item can be sold by 1 or more Jewelry Consultant.
9. Each item can have jewelry protection plan.
10. Repair can be purchased by customer.
11. If the item has JPP the repair is free.
12. The date of purchase and method of payment should be on the invoice.
13. If it has passed more than 1 month from the purchase, item can not be returned.
14. Each employee has different percentage of commission.
15. Each employee has a unique Jewelry Consultant number.
16. Employee can not work more than 40 hours.

**Metadata:**

**Product\_T**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | DataType | NOT Null | Primary Key | Default | Description |
| SkuNum | INT(11) |  |  |  | Item number |
| Category | VARCHAR(20) |  |  |  | Category of the item |
| CaseNum | INT(11) |  |  |  | Number of the case that item belongs |
| ReceviengDate | DATE |  |  | NULL | Date of receiving the item |
| Price | DECIMAL(12,2) |  |  | NULL | Price of the item |
| Discount | DECIMAL(6,2) |  |  | NULL | Discount on the item |
| Quantity | INT(10) |  |  | NULL | Quantity of item in stock |

**Customer\_T:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | DataType | NOT Null | Primary Key | Default | Description |
| CustomerID | INT(11) |  |  |  | ID of the customer |
| CustomerName | VARCHAR(25) |  |  |  | Customer’s first and last name |
| CustomerPhone | VARCHAR(30) |  |  |  | Customer’s phone number |
| CustomerAddress | VARCHAR(30) |  |  | NULL | Customer’s address |
| CustomerCity | VARCHAR(20) |  |  | NULL | City which customer lives in |
| CustomerProvince | VARCHAR(2) |  |  | NULL | Province that customer lives in |
| CustomerPostalCode | VARCHAR(10) |  |  | NULL | Customer’s postal code |
| CustomerSpent | INT(30) |  |  | NULL | Total amount customer has spent |

**Invoice\_T:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | DataType | NOT Null | Primary Key | Default | Description |
| InvoiceNum | INT(11) |  |  |  | Number on the invoice |
| CustomerID | INT(11) |  |  |  | ID of the customer |
| InvoiceDate | DATE |  |  | NULL | Date of the purchase |

**Invoice\_item\_T**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | DataType | NOT Null | Primary Key | Default | Description |
| InvoiceNum | INT(11) |  |  |  | Number on the invoice |
| SkuNum | INT(11) |  |  |  | Item number |
| Price | DECIMAL(10,2) |  |  | NULL | Price of the item |
| Discount | DECIMAL(10,2) |  |  | NULL | Discount on the item |
| MOP | VARCHAR(10) |  |  |  | Method of payment |
| JCNum | INT(11) |  |  |  | Employee number |
| ProductUnit | INT(11) |  |  |  | Quantity of item |

**Employee\_T**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | DataType | NOT Null | Primary Key | Default | Description |
| JCNum | INT(11) |  |  |  | Employee number |
| EmployeeName | VARCHAR(25) |  |  |  | Employee first and last name |
| EmployeeAddress | VARCHAR(30) |  |  | NULL | Employee’s address |
| EmployeeCity | VARCHAR(20) |  |  |  | Employee’s city |
| EmployeeProvince | CHAR(2) |  |  | NULL | Employee’s province |
| EmployeeZipCode | VARCHAR(10) |  |  | NULL | Employee’s zip code |
| EmployeeDateHired | Date |  |  | NULL | Employee’s Date of hiring |
| EmployeeBirthDate | Date |  |  | NULL | Employee’s Date of birth |
| Comission | INT(11) |  |  | NULL | Percentage of commission |
| WageHourly | INT(11) |  |  | NULL | Hourly wage |
| WeekHours | INT(11) |  |  | NULL | Total hours employee work per week |

**Order\_T**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | DataType | NOT Null | Primary Key | Default | Description |
| OrderID | VARCHAR(20) |  |  |  | Order Number |
| OrderDate | Date |  |  |  | Date of the order |

**Order\_line\_T**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | DataType | NOT Null | Primary Key | Default | Description |
| OrderID | VARCHAR(20) |  |  |  | Order Number |
| SkuNum | INT(11) |  |  |  | Item number |
| Quantity | INT(11) |  |  |  | Quantity of the item in the order |