1. customer ID, name, address (street, city, state, zip code), kind (home/business). If business, then business category, company gross annual income, etc. If home, then marriage status, gender, age, income.

Address:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| customer ID | street | city | state | zip code |

City, state:

|  |  |  |
| --- | --- | --- |
| ID | name | Parent-ID(note: state-ID=zero ) |

Business:

|  |  |  |
| --- | --- | --- |
| customer ID | business category ID | company gross annual income |

Business category:

|  |  |
| --- | --- |
| business category ID | business category |

Home:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| customer ID | marriage status | gender | age | income |

1. **Products:**product ID, name, inventory amount, price, product kind w.r.t. some classification.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| product ID | name | inventory | amount | price | product kind | Status(whether disappear) | Home\_discount | Business\_discount |

Hard-ware

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Name | Company | Category |

Laptop-hardware

|  |  |
| --- | --- |
| LaptopID | HardwareID |

Hardware-category

|  |  |
| --- | --- |
| Id | type |

Rate

|  |  |  |
| --- | --- | --- |
| Customer\_ID | Product\_ID | Rate(1-5) |

Shopping cart

|  |  |  |  |
| --- | --- | --- | --- |
| Customer\_ID | Product\_ID | amount | status |

Order cart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Customer\_ID | Product\_ID | amount | date | price | discount |

Repository