**3NF Relation Schema**

**CUSTOMER (**CUST\_ID, CUST\_FNAME, CUST\_LNAME, CUST\_ADDRESS, CUST\_TELNO)

**Primary KEY (PK) :** CUST\_ID

**CUSTOMER** (subclass)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CUST\_ID | CUST\_FNAME | CUST\_LNAME | CUST\_ADDRESS | CUST\_TELNO |

**ORDER** (ORDER\_ID, ORDER\_DATE, TOTAL\_ORDER, CUST\_ID)

**PK:** ORDER\_ID

**Foreign Key (FK) :** CUST\_ID

**ORDER** (superclass)

|  |  |  |  |
| --- | --- | --- | --- |
| ORDER\_ID | ORDER\_DATE | TOTAL\_ORDER | CUST\_ID |

**ORDER** (ORDER\_ID, PRODCUT\_ID, QUANTITY)

**PK:** ORDER\_ID

**FK:** PRODUCT\_ID

**ORDER\_ITEMS** (subclass)

|  |  |  |
| --- | --- | --- |
| ORDER\_ID | PRODUCT\_ID | QUANTITY |

**PAYMENT** (PAYMENT\_ID, AMOUNT, PAYMENT\_TYPE, ORDER\_ID)

**PK:** PAYMENT\_ID

**FK:** ORDER\_ID

**PAYMENT** (subclass)

|  |  |  |  |
| --- | --- | --- | --- |
| PAYMENT\_ID | AMOUNT | PAYMENT\_TYPE | ORDER\_ID |

**PRODUCTS** (PRODUCT\_ID, PRODUCT\_PRICE, SHOP\_ID)

**PK:** PRODUCT\_ID

**FK:** SHOP\_ID

**PRODUCT**

|  |  |  |
| --- | --- | --- |
| PRODUCT\_ID | PRODUCT\_PRICE | SHOP\_ID |

**PRODUCTS** (SHOP\_ID, SHOP\_CATEGORY, SELLER\_ID)

**PK:** SHOP\_ID

**FK:** SELLER\_ID

**SHOP**

|  |  |  |
| --- | --- | --- |
| SHOP\_ID | SHOP\_CATEGORY | SELLER\_ID |

**PRODUCTS** (SELLER\_ID, SELLER\_FNAME, SELLER\_LNAME, SELLER\_ADDRESS, SELLER\_TELNO)

**PK:** SELLER\_ID

**SELLER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SELLER\_ID | SELLER\_FNAME | SELLER\_LNAME | SELLER\_ADDRESS | SELLER\_TELNO |