

Data Definition Language

Create the relational model :

```
CREATE TABLE CUSTOMER (  
Customer_id VARCHAR(20) CONSTRAINT pk_customer PRIMARY KEY,  
Customer_name VARCHAR(20) CONSTRAINT nn_customer NOT NULL,  
Customer_tel NUMBER  
);
```

```
CREATE TABLE PRODUCT (  
Product_id VARCHAR(20) CONSTRAINT pk_product PRIMARY KEY,  
Product_name VARCHAR(20) CONSTRAINT nn_product NOT NULL,  
Price NUMBER CONSTRAINT pos_price CHECK (Price>0)  
);
```

```
CREATE TABLE ORDRES (  
Customer_id VARCHAR(20),  
Product_id VARCHAR(20),  
Quantity NUMBER,  
Total_amount NUMBER,  
CONSTRAINT fk_customer FOREIGN KEY(Customer_id) REFERENCES  
CUSTOMER (Customer_id),  
CONSTRAINT fk_product FOREIGN KEY(Product_id) REFERENCES  
PRODUCT(Product_id)  
);
```

```
ALTER TABLE ORDERS ADD CONSTRAINT pk_customer PRIMARY KEY  
(Customer_id) ;
```

```
ALTER TABLE ORDERS ADD CONSTRAINT pk_product PRIMARY KEY  
(Product_id) ;
```

Add a column Category (VARCHAR(20)) to the PRODUCT table :

```
ALTER TABLE PRODUCT ADD Category VARCHAR(20) ;
```

Add a column OrderDate (Date) to the orders table which have SYSDATE as a default value :

```
ALTER TABLE ORDERS ADD OrderDate Date DEFAULT SYSDATE ;
```