

# Data Definition Language

## Checkpoint

### 1/ Creating tables: Product / customer / order

#### ★ CREATE CUSTOMER TABLE

Customer		
Column Name	Data Type	Constraint
Customer_id	VARCHAR2(20)	Primary Key
Customer_Name	VARCHAR2(20)	NOT NULL
Customer_Tel	NUMBER	

```
CREATE TABLE Customer (  
Customer_Id VARCHAR2(20) CONSTRAINT pk_Customer PRIMARY KEY,  
Customer_Name VARCHAR2(20) CONSTRAINT nn_Customer NOT NULL,  
Customer_Tel NUMBER  
);
```

#### ★ CREATE PRODUCT TABLE

Product		
Column Name	Data Type	Constraint
Product_Id	VARCHAR2(20)	Primary Key
Product_Name	VARCHAR2(20)	NOT NULL
Price	NUMBER	Positive value

```

CREATE TABLE Product (
Product_Id VARCHAR2(20) CONSTRAINT pk_Product PRIMARY KEY,
Product_Name VARCHAR2(20) CONSTRAINT nn_Product NOT NULL,
Price NUMBER CONSTRAINT check_price CHECK (Price > 0)
);

```

## ★ CREATE ORDERS TABLE

Orders		
Column Name	Data Type	Constraint
Customer_id	VARCHAR2(20)	Foreign Key
Product_id	VARCHAR2(20)	Foreign Key
Quantity	NUMBER	
Total_amount	NUMBER	

```

CREATE TABLE Orders (
Quantity NUMBER ,
Total_amount NUMBER
CONSTRAINT fk_Orders_Customer FOREIGN KEY (Customer_id) REFERENCES
Customer (Customer_id) ,
CONSTRAINT fk_Orders_Product FOREIGN KEY (Product_id) REFERENCES
Product (Product_id)
);

```

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## ★ Add Column Category to the PRODUCT table

```
ALTER TABLE Product ADD Category VARCHAR2(20);
```

## ★ Add Column OrderDate to the ORDERS table

```
ALTER TABLE Orders ADD OrderDate DATE DEFAULT SYSDATE ();
```