

Physical Model: from Relational Diagram to setting up DB in an RDBMS

1) CREATE TABLE

```
CREATE TABLE Customer (  
Customer_id VARCHAR2(20) CONSTRAINT PK_Cust PRIMARY KEY (Customer_id),  
Customer_Name VARCHAR2(20) CONSTRAINT Name_Cust_Const NOT NULL,  
Customer_Tel NUMBER );
```

```
CREATE TABLE Product (  
Product_id VARCHAR2(20) CONSTRAINT PK_Prod PRIMARY KEY (Product_id),  
Product_Name VARCHAR2(20) CONSTRAINT Name_Prod_Const NOT NULL,  
Price NUMBER CONSTRAINT Price_Const CHECK (Price>0) );
```

```
CREATE TABLE Orders (  
Customer_id VARCHAR2(20) CONSTRAINT FK_Cust Customer_id REFERENCES  
Customer (Customer_id),  
Product_id VARCHAR2(20) CONSTRAINT FK_Prod Product_id REFERENCES  
Product (Product_id),  
Quantity NUMBER,  
Total_amount NUMBER,  
CONSTRAINT PK_Order PRIMARY KEY (Customer_id, Product_id) );
```

2) ALTER TABLE

//Add a column Category (VARCHAR2(20)) to the Product table

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

// Add a column OrderDate (DATE) to the Orders table which have SYSDATE as a default value

```
ALTER TABLE Orders ADD OrderDate DATE;
```

```
ALTER TABLE Orders ADD CONSTRAINT OrderDate_Const DEFAULT GetData()  
FOR OrderDate;
```