**SQL Case Study required Data Base for Sales :**

//For creating product table

CREATE TABLE product (

product\_id INT PRIMARY KEY,

product\_name VARCHAR(100),

description VARCHAR(200),

price DECIMAL(10, 2),

category VARCHAR(50)

);

//For creating region table

CREATE TABLE region (

region\_id INT PRIMARY KEY,

region\_name VARCHAR(100)

);

//For creating time period table

CREATE TABLE time\_period (

timeperiod\_id INT PRIMARY KEY,

timeperiod\_name VARCHAR(100)

);

//For creating customer table

CREATE TABLE customer (

customer\_id INT PRIMARY KEY,

customer\_name VARCHAR(100),

address VARCHAR(200),

age INT,

loyalty\_status VARCHAR(50)

);

//For creating purchase table

CREATE TABLE purchase (

purchase\_id INT PRIMARY KEY,

customer\_id INT,

timeperiod\_id INT,

total\_purchase\_amount DECIMAL(10, 2),

FOREIGN KEY (customer\_id) REFERENCES customer (customer\_id),

FOREIGN KEY (timeperiod\_id) REFERENCES time\_period (timeperiod\_id)

);

//For creating purchase product relationship

CREATE TABLE purchase\_product (

purchase\_id INT,

product\_id INT,

PRIMARY KEY (purchase\_id, product\_id),

FOREIGN KEY (purchase\_id) REFERENCES purchase (purchase\_id),

FOREIGN KEY (product\_id) REFERENCES product (product\_id)

);

//For creating product region relationship

CREATE TABLE product\_region (

product\_id INT,

region\_id INT,

PRIMARY KEY (product\_id, region\_id),

FOREIGN KEY (product\_id) REFERENCES product (product\_id),

FOREIGN KEY (region\_id) REFERENCES region (region\_id)

);

//For creating inventory table

CREATE TABLE inventory (

inventory\_id INT PRIMARY KEY,

product\_id INT,

stock\_level INT,

FOREIGN KEY (product\_id) REFERENCES product (product\_id)

);