

Based on the relational model and the data provided, here are the SQL commands for inserting rows into each table. The example assumes that tables such as CUSTOMER, PRODUCT, SUPPLIER, ORDERS, ORDER\_DETAILS, and PRODUCT\_SUPPLIER have already been created with appropriate data types and constraints.

**-- Insert data into CUSTOMER table**

```
INSERT INTO CUSTOMER (CustomerID, FirstName, LastName, Address, PhoneNumber)
VALUES (1, 'John', 'Doe', '123 Maple Street', '555-1234');
```

```
INSERT INTO CUSTOMER (CustomerID, FirstName, LastName, Address, PhoneNumber)
VALUES (2, 'Jane', 'Smith', '456 Oak Avenue', '555-5678');
```

**-- Insert data into PRODUCT table**

```
INSERT INTO PRODUCT (ProductID, ProductName, Price, Category)
VALUES (1, 'Dumbbell Set', 99.99, 'Fitness');
```

```
INSERT INTO PRODUCT (ProductID, ProductName, Price, Category)
VALUES (2, 'Yoga Mat', 29.99, 'Fitness');
```

**-- Insert data into SUPPLIER table**

```
INSERT INTO SUPPLIER (SupplierID, SupplierName, ContactName, Address, PhoneNumber)
VALUES (1, 'FitCo', 'Alice Johnson', '789 Fitness Blvd', '555-4321');
```

```
INSERT INTO SUPPLIER (SupplierID, SupplierName, ContactName, Address, PhoneNumber)
VALUES (2, 'HealthMax', 'Bob Lee', '1010 Wellness Way', '555-8765');
```

**-- Insert data into ORDERS table**

```
INSERT INTO ORDERS (OrderID, CustomerID, OrderAmount, OrderDate)
VALUES (1, 1, 129.98, SYSDATE);
```

```
INSERT INTO ORDERS (OrderID, CustomerID, OrderAmount, OrderDate)
VALUES (2, 2, 199.98, SYSDATE);
```

**-- Insert data into ORDER\_DETAILS table**

```
INSERT INTO ORDER_DETAILS (OrderID, ProductID, Quantity)
VALUES (1, 1, 1);
```

```
INSERT INTO ORDER_DETAILS (OrderID, ProductID, Quantity)
VALUES (1, 2, 1);
```

```
INSERT INTO ORDER_DETAILS (OrderID, ProductID, Quantity)
VALUES (2, 1, 2);
```

**-- Insert data into PRODUCT\_SUPPLIER table**

```
INSERT INTO PRODUCT_SUPPLIER (ProductID, SupplierID)
VALUES (1, 1);
```

```
INSERT INTO PRODUCT_SUPPLIER (ProductID, SupplierID)
VALUES (2, 2);
```

This SQL code should populate each table with the required data and can be run in a SQL environment that supports your database. Make sure to adapt any specifics if there are additional requirements on constraints or existing data in your database.