```
In [9]: import pandas as pd
        # 1. Create a DataFrame with Sample E-commerce Transaction Data
            'Order ID': [101, 102, 103, 104, 105],
            'Customer Name': ['Alice Johnson', 'Bob Smith', 'Charlie Brown', 'David Wilson'
            'Product': ['Laptop', 'Headphones', 'Smartphone', 'Tablet', 'Smartwatch'],
            'Category': ['Electronics', 'Accessories', 'Electronics', 'Electronics', 'Weara
            'Price': [800, 50, 600, 300, 150],
             'Quantity': [1, 2, 1, 1, 1]
        df = pd.DataFrame(data)
        print(' Sample E-commerce Transaction Data')
        print(df)
        # 2. Add a New Column (Order Status)
        order status values = ['Shipped', 'Pending', 'Delivered', 'Shipped', 'Pending']
        df['Order Status'] = order status values
        print('Add a New Column (Order_Status)')
        print(df)
        # 3. Add Multiple Columns (Shipping_Partner & Review_Rating)
        shipping_partners = ['FedEx', 'DHL', 'UPS', 'Amazon Logistics', 'Blue Dart']
        review_ratings = [4.5, 4.0, 3.8, 4.2, 4.7]
        df['Shipping_Partner'] = shipping_partners
        df['Review Rating'] = review ratings
        print('Add Multiple Columns (Shipping Partner & Review Rating)')
        print(df)
        # 4. Add a Column at a Specific Index (Payment_Method at Index 2)
        payment_methods = ['Credit Card', 'PayPal', 'Debit Card', 'Net Banking', 'UPI']
        df.insert(2, 'Payment Method', payment methods)
        print('Add a Column at a Specific Index (Payment_Method at Index 2)')
        print(df)
        # 5. Delete the Review Rating Column
        df = df.drop(columns=['Review Rating'])
        print('Delete the Review_Rating Column')
        print(df)
```

```
Sample E-commerce Transaction Data
   Order_ID Customer_Name
                              Product
                                          Category Price
                                                          Quantity
       101 Alice Johnson
0
                               Laptop Electronics
                                                       800
                                                                  1
       102
                 Bob Smith Headphones Accessories
                                                                  2
1
                                                       50
2
       103 Charlie Brown Smartphone Electronics
                                                       600
                                                                  1
3
             David Wilson
       104
                               Tablet Electronics
                                                       300
                                                                  1
4
       105
                 Eva Adams Smartwatch
                                         Wearables
                                                      150
                                                                  1
Add a New Column (Order_Status)
   Order ID Customer Name
                              Product
                                          Category
                                                    Price
                                                           Quantity
0
       101 Alice Johnson
                               Laptop Electronics
                                                       800
                                                                   1
1
       102
                 Bob Smith Headphones Accessories
                                                       50
                                                                  2
2
       103 Charlie Brown Smartphone Electronics
                                                       600
                                                                  1
3
       104
             David Wilson
                               Tablet Electronics
                                                       300
                                                                  1
4
       105
                 Eva Adams Smartwatch
                                         Wearables
                                                      150
                                                                  1
 Order Status
      Shipped
0
1
       Pending
2
     Delivered
3
       Shipped
       Pending
4
Add Multiple Columns (Shipping Partner & Review Rating)
   Order ID Customer Name
                              Product
                                           Category Price
                                                           Quantity \
0
       101 Alice Johnson
                               Laptop Electronics
                                                       800
                                                                  1
       102
                 Bob Smith Headphones Accessories
                                                       50
                                                                  2
1
2
       103 Charlie Brown Smartphone Electronics
                                                       600
                                                                  1
3
       104
             David Wilson
                               Tablet Electronics
                                                       300
                                                                  1
4
       105
                 Eva Adams Smartwatch
                                         Wearables
                                                                   1
                                                      150
 Order_Status Shipping_Partner Review_Rating
      Shipped
                          FedEx
                                           4.5
0
1
       Pending
                            DHL
                                           4.0
2
     Delivered
                            UPS
                                            3.8
3
                                           4.2
       Shipped Amazon Logistics
                       Blue Dart
4
       Pending
                                           4.7
Add a Column at a Specific Index (Payment_Method at Index 2)
   Order ID Customer Name Payment Method
                                             Product
                                                          Category
                                                                   Price \
                             Credit Card
       101 Alice Johnson
0
                                              Laptop Electronics
                                                                     800
1
       102
                 Bob Smith
                                   PayPal Headphones Accessories
                                                                      50
2
       103 Charlie Brown
                                          Smartphone Electronics
                              Debit Card
                                                                     600
                             Net Banking
3
       104
             David Wilson
                                               Tablet Electronics
                                                                     300
4
       105
                 Eva Adams
                                     UPI Smartwatch
                                                        Wearables
                                                                     150
   Quantity Order_Status Shipping_Partner
                                           Review Rating
                 Shipped
                                                      4.5
0
         1
                                    FedEx
          2
1
                 Pending
                                                      4.0
                                      DHL
2
         1
              Delivered
                                      UPS
                                                      3.8
3
         1
                Shipped Amazon Logistics
                                                      4.2
                 Pending
                                Blue Dart
                                                      4.7
4
          1
Delete the Review Rating Column
   Order ID Customer Name Payment Method
                                             Product
                                                          Category
                                                                   Price \
0
       101 Alice Johnson
                             Credit Card
                                              Laptop Electronics
                                                                     800
       102
                 Bob Smith
                                  PayPal Headphones Accessories
1
                                                                      50
2
       103 Charlie Brown
                              Debit Card Smartphone Electronics
                                                                     600
3
       104
             David Wilson
                             Net Banking
                                              Tablet Electronics
                                                                     300
4
        105
                 Eva Adams
                                     UPI
                                          Smartwatch
                                                        Wearables
                                                                     150
```

```
Quantity Order_Status Shipping_Partner
0
          1
                 Shipped
                                     FedEx
          2
1
                 Pending
                                       DHL
2
          1
               Delivered
                                       UPS
3
         1
                 Shipped Amazon Logistics
4
          1
                                 Blue Dart
                 Pending
  Order_ID Customer_Name Payment_Method
                                              Product
                                                           Category Price \
            Alice Johnson
                              Credit Card
0
        101
                                               Laptop Electronics
                                                                       800
        102
1
                 Bob Smith
                                   PayPal Headphones Accessories
                                                                       50
2
        103 Charlie Brown
                               Debit Card Smartphone
                                                       Electronics
                                                                       600
                              Net Banking
3
        104
              David Wilson
                                               Tablet
                                                       Electronics
                                                                       300
        105
4
                 Eva Adams
                                      UPI
                                           Smartwatch
                                                         Wearables
                                                                       150
  Quantity Order_Status
                          Shipping_Partner
                 Shipped
0
          1
                                     FedEx
1
          2
                 Pending
                                       DHL
2
          1
               Delivered
                                       UPS
3
          1
                 Shipped
                         Amazon Logistics
4
          1
                 Pending
                                 Blue Dart
```

In [ ]: