

```

SQL> CREATE TABLE sales_data (
2   row_id NUMBER,
3   order_id VARCHAR2(30),
4   order_date DATE,
5   ship_date DATE,
6   ship_mode VARCHAR2(50),
7   customer_id VARCHAR2(30),
8   customer_name VARCHAR2(100),
9   segment VARCHAR2(50),
10  country VARCHAR2(50),
11  city VARCHAR2(50),
12  state VARCHAR2(50),
13  postal_code VARCHAR2(20),
14  region VARCHAR2(20),
15  product_id VARCHAR2(30),
16  category VARCHAR2(50),
17  sub_category VARCHAR2(50),
18  product_name VARCHAR2(400),
19  sales NUMBER(10,2),
20  quantity NUMBER,
21  discount NUMBER(5,2),
22  profit NUMBER(10,2)
23 );

```

Table created.

```

SQL> INSERT INTO sales_data VALUES

```

```

2 (1, 'CA-2016-152156', TO_DATE('2016-11-08','YYYY-MM-DD'), TO_DATE('2016-11-11','YYYY-MM-DD'), 'Second Class', 'CG-12520', 'Claire Gute', 'Consumer', 'United States', 'Henderson', 'Kentucky', '42420', 'South', 'FUR-BO-10001798', 'Furniture', 'Bookcases', 'Bush Somerset Collection Bookcase', 261.96, 2, 0, 41.91);

```

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (2, 'CA-2016-152156', TO_DATE('2016-11-08','YYYY-MM-DD'), TO_DATE('2016-11-11','YYYY-MM-DD'), 'Second Class', 'CG-12520', 'Claire Gute', 'Consumer', 'United States', 'Henderson', 'Kentucky', '42420', 'South', 'FUR-CH-10000454', 'Furniture', 'Chairs', 'Hon Deluxe Fabric Upholstered Stacking Chairs, Rounded Back', 731.94, 3, 0, 219.58);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (3, 'CA-2016-138688', TO_DATE('2016-12-06','YYYY-MM-DD'), TO_DATE('2016-12-16','YYYY-MM-DD'), 'Second Class', 'DV-13045', 'Darrin Van Huff', 'Corporate', 'United States', 'Los Angeles', 'California', '90036', 'West', 'OFF-LA-10000240', 'Office Supplies', 'Labels', 'Self-Adhesive Address Labels for Typewriters by Universal', 14.62, 2, 0, 6.87);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (4, 'US-2015-108966', TO_DATE('2015-10-11','YYYY-MM-DD'), TO_DATE('2015-10-18','YYYY-MM-DD'), 'Standard Class', 'SO-20335', 'Sean O'Donnell', 'Consumer', 'United States', 'Fort Lauderdale', 'Florida', '33311', 'South', 'FUR-TA-10000577', 'Furniture', 'Tables', 'Bretford CR4500 Series Slim Rectangular Table', 957.58, 5, 0.45, -383.03);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (5, 'US-2015-108966', TO_DATE('2015-10-11','YYYY-MM-DD'), TO_DATE('2015-10-18','YYYY-MM-DD'), 'Standard Class', 'SO-20335', 'Sean O'Donnell', 'Consumer', 'United States', 'Fort Lauderdale',

'Florida', '33311', 'South', 'OFF-ST-10000760', 'Office Supplies', 'Storage', 'Eldon Fold "N Roll Cart System', 22.37, 2, 0.2, 2.52);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (6, 'CA-2014-115812', TO_DATE('2014-06-09','YYYY-MM-DD'), TO_DATE('2014-06-14','YYYY-MM-DD'), 'Standard Class', 'BH-11710', 'Brosina Hoffman', 'Consumer', 'United States', 'Los Angeles', 'California', '90032', 'West', 'FUR-FU-10001487', 'Furniture', 'Furnishings', 'Eldon Expressions Wood and Plastic Desk Accessories, Cherry Wood', 48.86, 7, 0, 14.17);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (7, 'CA-2014-115812', TO_DATE('2014-06-09','YYYY-MM-DD'), TO_DATE('2014-06-14','YYYY-MM-DD'), 'Standard Class', 'BH-11710', 'Brosina Hoffman', 'Consumer', 'United States', 'Los Angeles', 'California', '90032', 'West', 'OFF-AR-10002833', 'Office Supplies', 'Art', 'Newell 322', 7.28, 4, 0, 1.97);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (8, 'CA-2014-115812', TO_DATE('2014-06-09','YYYY-MM-DD'), TO_DATE('2014-06-14','YYYY-MM-DD'), 'Standard Class', 'BH-11710', 'Brosina Hoffman', 'Consumer', 'United States', 'Los Angeles', 'California', '90032', 'West', 'TEC-PH-10002275', 'Technology', 'Phones', 'Mitel 5320 IP Phone VoIP phone', 907.15, 6, 0.2, 90.72);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

```
2 (9, 'CA-2014-115812', TO_DATE('2014-06-09','YYYY-MM-DD'), TO_DATE('2014-06-14','YYYY-MM-DD'), 'Standard Class', 'BH-11710', 'Brosina Hoffman', 'Consumer', 'United States', 'Los Angeles', 'California', '90032', 'West', 'OFF-BI-10003910', 'Office Supplies', 'Binders', 'DXL Angle-View Binders with Locking Rings by Samsill', 18.50, 3, 0.2, 5.78);
```

1 row created.

SQL>

```
SQL> INSERT INTO sales_data VALUES
```

```
2 (10, 'CA-2014-115812', TO_DATE('2014-06-09','YYYY-MM-DD'), TO_DATE('2014-06-14','YYYY-MM-DD'), 'Standard Class', 'BH-11710', 'Brosina Hoffman', 'Consumer', 'United States', 'Los Angeles', 'California', '90032', 'West', 'OFF-AP-10002892', 'Office Supplies', 'Appliances', 'Belkin F5C206VTEL 6 Outlet Surge', 114.90, 5, 0, 34.47);
```

1 row created.

SQL>

```
SQL> INSERT INTO sales_data VALUES
```

```
2 (11, 'CA-2014-115812', TO_DATE('2014-06-09','YYYY-MM-DD'), TO_DATE('2014-06-14','YYYY-MM-DD'), 'Standard Class', 'BH-11710', 'Brosina Hoffman', 'Consumer', 'United States', 'Los Angeles', 'California', '90032', 'West', 'FUR-TA-10001539', 'Furniture', 'Tables', 'Chromcraft Rectangular Conference Tables', 1706.18, 9, 0.2, 85.31);
```

1 row created.

SQL>

```
SQL> INSERT INTO sales_data VALUES
```

```
2 (12, 'CA-2014-115812', TO_DATE('2014-06-09','YYYY-MM-DD'), TO_DATE('2014-06-14','YYYY-MM-DD'), 'Standard Class', 'BH-11710', 'Brosina Hoffman', 'Consumer', 'United States', 'Los Angeles', 'California', '90032', 'West', 'TEC-PH-10002033', 'Technology', 'Phones', 'Konftel 250 Conference phone - Charcoal black', 911.42, 4, 0.2, 68.36);
```

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (13, 'CA-2017-114412', TO_DATE('2017-04-15','YYYY-MM-DD'), TO_DATE('2017-04-20','YYYY-MM-DD'), 'Standard Class', 'AA-10480', 'Andrew Allen', 'Consumer', 'United States', 'Concord', 'North Carolina', '28027', 'South', 'OFF-PA-10002365', 'Office Supplies', 'Paper', 'Xerox 1967', 15.55, 3, 0.2, 5.44);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (14, 'CA-2016-161389', TO_DATE('2016-12-05','YYYY-MM-DD'), TO_DATE('2016-12-10','YYYY-MM-DD'), 'Standard Class', 'IM-15070', 'Irene Maddox', 'Consumer', 'United States', 'Seattle', 'Washington', '98103', 'West', 'OFF-BI-10003656', 'Office Supplies', 'Binders', 'Fellowes PB200 Plastic Comb Binding Machine', 407.98, 3, 0.2, 132.59);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (15, 'US-2015-118983', TO_DATE('2015-11-22','YYYY-MM-DD'), TO_DATE('2015-11-26','YYYY-MM-DD'), 'Standard Class', 'HP-14815', 'Harold Pawlan', 'Home Office', 'United States', 'Fort Worth', 'Texas', '76106', 'Central', 'OFF-AP-10002311', 'Office Supplies', 'Appliances', 'Holmes Replacement Filter for HEPA Air Cleaner, Very Large Room, HEPA Filter', 68.81, 5, 0.8, -123.86);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (16, 'US-2015-118983', TO_DATE('2015-11-22','YYYY-MM-DD'), TO_DATE('2015-11-26','YYYY-MM-DD'), 'Standard Class', 'HP-14815', 'Harold Pawlan', 'Home Office', 'United States', 'Fort Worth', 'Texas', '76106', 'Central', 'OFF-BI-10000756', 'Office Supplies', 'Binders', 'Storex DuraTech Recycled Plastic Frosted Binders', 2.54, 3, 0.8, -3.82);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (17, 'CA-2014-105893', TO_DATE('2014-11-11','YYYY-MM-DD'), TO_DATE('2014-11-18','YYYY-MM-DD'), 'Standard Class', 'PK-19075', 'Pete Kriz', 'Consumer', 'United States', 'Madison', 'Wisconsin', '53711', 'Central', 'OFF-ST-10004186', 'Office Supplies', 'Storage', 'Stur-D-Stor Shelving, Vertical 5-Shelf: 72"H x 36"W x 18 1/2"D', 665.88, 6, 0, 13.32);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (18, 'CA-2014-167164', TO_DATE('2014-05-13','YYYY-MM-DD'), TO_DATE('2014-05-15','YYYY-MM-DD'), 'Second Class', 'AG-10270', 'Alejandro Grove', 'Consumer', 'United States', 'West Jordan', 'Utah', '84084', 'West', 'OFF-ST-10000107', 'Office Supplies', 'Storage', 'Fellowes Super Stor/Drawer', 55.50, 2, 0, 9.99);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (19, 'CA-2014-143336', TO_DATE('2014-08-27','YYYY-MM-DD'), TO_DATE('2014-09-01','YYYY-MM-DD'), 'Second Class', 'ZD-21925', 'Zuschuss Donatelli', 'Consumer', 'United States', 'San Francisco', 'California', '94109', 'West', 'OFF-AR-10003056', 'Office Supplies', 'Art', 'Newell 341', 8.56, 2, 0, 2.48);

1 row created.

SQL>

SQL> INSERT INTO sales_data VALUES

2 (20, 'CA-2014-143336', TO_DATE('2014-08-27','YYYY-MM-DD'), TO_DATE('2014-09-01','YYYY-MM-DD'), 'Second Class', 'ZD-21925', 'Zuschuss Donatelli', 'Consumer', 'United States', 'San Francisco', 'California', '94109', 'West', 'TEC-PH-10001949', 'Technology', 'Phones', 'Cisco SPA 501G IP Phone', 213.48, 3, 0.2, 16.01);

1 row created.

SQL> SELECT

```
2  EXTRACT(YEAR FROM order_date) AS year,
3  EXTRACT(MONTH FROM order_date) AS month,
4  TO_CHAR(order_date, 'YYYY-MM') AS year_month,
5  COUNT(DISTINCT order_id) AS order_count,
6  SUM(sales) AS total_revenue
7  FROM sales_data
8  GROUP BY EXTRACT(YEAR FROM order_date), EXTRACT(MONTH FROM order_date),
TO_CHAR(order_date, 'YYYY-MM')
9  ORDER BY year, month;
```

YEAR	MONTH	YEAR_MO	ORDER_COUNT	TOTAL_REVENUE
2014	5	2014-05	1	55.5
2014	6	2014-06	1	3714.29
2014	8	2014-08	1	222.04
2014	11	2014-11	1	665.88
2015	10	2015-10	1	979.95
2015	11	2015-11	1	71.35
2016	11	2016-11	1	993.9
2016	12	2016-12	2	422.6
2017	4	2017-04	1	15.55

9 rows selected.

SQL> SELECT

```
2  TO_CHAR(order_date, 'YYYY-MM') AS year_month,
3  COUNT(DISTINCT order_id) AS order_count,
4  SUM(sales) AS total_revenue
5  FROM sales_data
6  WHERE EXTRACT(YEAR FROM order_date) = 2016
```

7 GROUP BY TO_CHAR(order_date, 'YYYY-MM')

8 ORDER BY year_month;

YEAR_MO ORDER_COUNT TOTAL_REVENUE

2016-11 1 993.9

2016-12 2 422.6

SQL> SELECT

2 TO_CHAR(order_date, 'Month YYYY') AS month_year,

3 COUNT(DISTINCT order_id) AS order_count,

4 SUM(sales) AS total_revenue

5 FROM sales_data

6 GROUP BY TO_CHAR(order_date, 'Month YYYY')

7 ORDER BY total_revenue DESC

8 FETCH FIRST 5 ROWS ONLY;

MONTH_YEAR ORDER_COUNT TOTAL_REVENUE

June 2014 1 3714.29

November 2016 1 993.9

October 2015 1 979.95

November 2014 1 665.88

December 2016 2 422.6