

1. Write and execute the SQL command to list the total sales by region and customer. Your output should be sorted by region and customer

```
SELECT REG_ID, S.CUS_CODE, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
FROM DWDALESFACT S JOIN DWCUSTOMER C ON S.CUS_CODE = C.CUS_CODE
GROUP BY REG_ID, S.CUS_CODE
ORDER BY REG_ID, S.CUS_CODE;
```

```
saleco_dw=> SELECT REG_ID, S.CUS_CODE, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES FR
OM DWDALESFACT S JOIN DWCUSTOMER C ON S.CUS_CODE = C.CUS_CODE GROUP BY REG_ID
, S.CUS_CODE ORDER BY REG_ID, S.CUS_CODE;
 reg_id | cus_code | totalsales
-----+-----+-----
      1 |    10012 |      287.91
      1 |    10013 |       64.32
      2 |    10014 |      494.71
      2 |    10019 |       39.95
      3 |    10010 |      180.26
      3 |    10011 |      130.89
      3 |    10015 |      325.82
      3 |    10016 |      179.22
      4 |    10017 |      419.66
      4 |    10018 |      129.32
(10 rows)
```

2. Write and execute the SQL command to list the total sales by customer, month and product.

```
SELECT S.CUS_CODE, D.TM_MONTH, S.P_CODE, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
FROM DWDALESFACT S JOIN DWCUSTOMER C ON S.CUS_CODE = C.CUS_CODE
JOIN DWTIME D ON S.TM_ID = D.TM_ID
JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
GROUP BY S.CUS_CODE, D.TM_MONTH, S.P_CODE
ORDER BY S.CUS_CODE, D.TM_MONTH, S.P_CODE;
```

Assignment 4 SaleCo Data Warehouse

John Moderwell

```
saleco_dw=> SELECT S.CUS_CODE,D.TM_MONTH, S.P_CODE, SUM(SALE_UNITS*SALE_PRICE)AS
TOTSALLES
saleco_dw-> FROM DWDALESFACT S JOIN DWCUSTOMER C ON S.CUS_CODE = C.CUS_CODE
saleco_dw-> JOIN DWTIME D ON S.TM_ID = D.TM_ID
saleco_dw-> JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
saleco_dw-> GROUP BY S.CUS_CODE, D.TM_MONTH, S.P_CODE
saleco_dw-> ORDER BY S.CUS_CODE, D.TM_MONTH, S.P_CODE;
```

cus_code	tm_month	p_code	totsales
10010	10	13-Q2/P2	74.95
10010	10	23109-HB	19.90
10010	10	54778-2T	14.97
10010	10	PVC23DRT	70.44
10011	10	2232/PTY	109.92
10011	10	SM-18277	20.97
10012	9	SM-18277	20.97
10012	10	23109-HB	9.95
10012	10	89-WRE-Q	256.99
10013	10	13-Q2/P2	29.98
10013	10	54778-2T	4.99
10013	10	PVC23DRT	29.35
10014	9	13-Q2/P2	14.99
10014	9	2232/PTY	109.92
10014	9	23109-HB	9.95
10014	10	WR3/TT3	359.85
10015	9	2238/QPD	38.95
10015	9	23109-HB	9.95
10015	9	54778-2T	9.98
10015	9	89-WRE-Q	256.99
10015	10	23109-HB	9.95
10016	9	13-Q2/P2	104.93
10016	9	1546-QQ2	39.95
10016	9	54778-2T	4.99
10016	9	PVC23DRT	29.35
10017	9	13-Q2/P2	14.99
10017	9	23109-HB	29.85
10017	9	54778-2T	14.97
10017	9	WR3/TT3	359.85
10018	9	2238/QPD	38.95
10018	9	23109-HB	9.95
10018	9	54778-2T	9.98
10018	9	PVC23DRT	70.44
10019	9	1546-QQ2	39.95

(34 rows)

3. Write and execute the SQL command to list the total sales by customer and by product

```
SELECT S.CUS_CODE, S.P_CODE, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALLES
FROM DWDALESFACT S JOIN DWCUSTOMER C ON S.CUS_CODE = C.CUS_CODE
JOIN DWPRODUCT D ON S.P_CODE = D.P_CODE
GROUP BY S.CUS_CODE, S.P_CODE
ORDER BY S.CUS_CODE, S.P_CODE;
```

Assignment 4 SaleCo Data Warehouse

John Moderwell

```
saleco_dw=> SELECT S.CUS_CODE, S.P_CODE, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
saleco_dw-> FROM DWDALESFACT S JOIN DWCUSTOMER C ON S.CUS_CODE = C.CUS_CODE
saleco_dw-> JOIN DWPRODUCT D ON S.P_CODE=D.P_CODE
saleco_dw-> GROUP BY S.CUS_CODE, S.P_CODE
saleco_dw-> ORDER BY S.CUS_CODE,S.P_CODE;
```

cus_code	p_code	totsales
10010	13-Q2/P2	74.95
10010	23109-HB	19.90
10010	54778-2T	14.97
10010	PVC23DRT	70.44
10011	2232/PTY	109.92
10011	SM-18277	20.97
10012	23109-HB	9.95
10012	89-WRE-Q	256.99
10012	SM-18277	20.97
10013	13-Q2/P2	29.98
10013	54778-2T	4.99
10013	PVC23DRT	29.35
10014	13-Q2/P2	14.99
10014	2232/PTY	109.92
10014	23109-HB	9.95
10014	WR3/TT3	359.85
10015	2238/QPD	38.95
10015	23109-HB	19.90
10015	54778-2T	9.98
10015	89-WRE-Q	256.99
10016	13-Q2/P2	104.93
10016	1546-QQ2	39.95
10016	54778-2T	4.99
10016	PVC23DRT	29.35
10017	13-Q2/P2	14.99
10017	23109-HB	29.85
10017	54778-2T	14.97
10017	WR3/TT3	359.85
10018	2238/QPD	38.95
10018	23109-HB	9.95
10018	54778-2T	9.98
10018	PVC23DRT	70.44
10019	1546-QQ2	39.95

(33 rows)

4. Write and execute the SQL command to list the total sales by month and product category. Your output should be sorted by month and product category.

```
SELECT TM_MONTH, P_CATEGORY, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
JOIN DWTIME T ON S.TM_ID = T.TM_ID
GROUP BY TM_MONTH, P_CATEGORY
ORDER BY TM_MONTH, P_CATEGORY;
```

Assignment 4 SaleCo Data Warehouse

John Moderwell

```
saleco_dw=> SELECT TM_MONTH, P_CATEGORY, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
saleco_dw-> FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
saleco_dw-> JOIN DWTIME T ON S.TM_ID=T.TM_ID
saleco_dw-> GROUP BY TM_MONTH, P_CATEGORY
saleco_dw-> ORDER BY TM_MONTH, P_CATEGORY;
  tm_month | p_category | totalsales
-----+-----+-----
          9 | CAT1      |    174.83
          9 | CAT2      |    446.81
          9 | CAT3      |    537.54
          9 | CAT4      |     80.67
         10 | CAT1      |    124.89
         10 | CAT2      |    366.91
         10 | CAT3      |    459.64
         10 | CAT4      |     60.77
(8 rows)
```

5. Write and execute the SQL command to list the number of product sales (number of rows) and total sales by month. Your output should be sorted by month.

```
SELECT TM_MONTH, COUNT(S.P_CODE) AS PRODCOUNT, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
JOIN DWTIME T ON S.TM_ID = T.TM_ID
GROUP BY TM_MONTH
ORDER BY TM_MONTH;
```

```
saleco_dw=> SELECT TM_MONTH, COUNT(S.P_CODE) AS PRODCOUNT, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
saleco_dw-> FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
saleco_dw-> JOIN DWTIME T ON S.TM_ID = T.TM_ID
saleco_dw-> GROUP BY TM_MONTH
saleco_dw-> ORDER BY TM_MONTH;
  tm_month | prodcount | totalsales
-----+-----+-----
          9 |         23 |    1239.85
         10 |         13 |    1012.21
(2 rows)
```

6. Write and execute the SQL command to list the number of product sales (number of rows) and total sales by month and product category. Your output should be sorted by month and product category.

```
SELECT TM_MONTH, P_CATEGORY, COUNT(*) AS PRODCOUNT, SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE JOIN DWTIME T ON S.TM_ID = T.TM_ID
ORDER BY TM_MONTH, P_CATEGORY;
```

Assignment 4 SaleCo Data Warehouse

John Moderwell

GROUP BY TM_MONTH, P_CATEGORY

```
saleco_dw=> SELECT TM_MONTH, P_CATEGORY, COUNT(*) AS PRODCOUNT, SUM(SALE_UNITS*S
ALE_PRICE) AS TOTSALES
saleco_dw-> FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
saleco_dw-> JOIN DWTIME T ON S.TM_ID = T.TM_ID
saleco_dw-> GROUP BY TM_MONTH, P_CATEGORY
saleco_dw-> ORDER BY TM_MONTH, P_CATEGORY;
```

tm_month	p_category	prodcount	totsales
9	CAT1	8	174.83
9	CAT2	4	446.81
9	CAT3	5	537.54
9	CAT4	6	80.67
10	CAT1	4	124.89
10	CAT2	2	366.91
10	CAT3	3	459.64
10	CAT4	4	60.77

(8 rows)

7. Write and execute the SQL command to list the number of product sales (number of rows) and total sales by month, product category and product. Your output should be sorted

```
SELECT TM_MONTH, P_CATEGORY, S.P_CODE, COUNT(*) AS COUNTPROD,
SUM(SALE_UNITS*SALE_PRICE) AS TOTSALES
```

```
FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE JOIN DWTIME T ON S.TM_ID
= T.TM_ID
```

```
GROUP BY TM_MONTH, P_CATEGORY, S.P_CODE
```

```
ORDER BY TM_MONTH, P_CATEGORY, S.P_CODE;
```

Assignment 4 SaleCo Data Warehouse

John Moderwell

```
saleco_dw=> SELECT TM_MONTH, P_CATEGORY, S.P_CODE, COUNT(*) AS PRODCOUNT, SUM(SA
LE_UNITS*SALE_PRICE) AS TOTSALES
saleco_dw-> FROM DWDALESFACT S JOIN DWPRODUCT P ON S.P_CODE = P.P_CODE
saleco_dw-> JOIN DWTIME T ON S.TM_ID = T.TM_ID
saleco_dw-> GROUP BY TM_MONTH, P_CATEGORY, S.P_CODE
saleco_dw-> ORDER BY TM_MONTH, P_CATEGORY, S.P_CODE;
  tm_month | p_category | p_code | prodcount | totsals
-----+-----+-----+-----+-----
      9 | CAT1      | 13-Q2/P2 |         4 |   134.91
      9 | CAT1      | 54778-2T |         4 |    39.92
      9 | CAT2      | 1546-QQ2 |         2 |    79.90
      9 | CAT2      | 2232/QTY |         1 |   109.92
      9 | CAT2      | 89-WRE-Q |         1 |   256.99
      9 | CAT3      | 2238/QPD |         2 |    77.90
      9 | CAT3      | PVC23DRT |         2 |    99.79
      9 | CAT3      | WR3/TT3  |         1 |   359.85
      9 | CAT4      | 23109-HB |         5 |    59.70
      9 | CAT4      | SM-18277 |         1 |    20.97
     10 | CAT1      | 13-Q2/P2 |         2 |   104.93
     10 | CAT1      | 54778-2T |         2 |    19.96
     10 | CAT2      | 2232/QTY |         1 |   109.92
     10 | CAT2      | 89-WRE-Q |         1 |   256.99
     10 | CAT3      | PVC23DRT |         2 |    99.79
     10 | CAT3      | WR3/TT3  |         1 |   359.85
     10 | CAT4      | 23109-HB |         3 |    39.80
     10 | CAT4      | SM-18277 |         1 |    20.97
(18 rows)
```