

**Started on** Tuesday, 24 April 2018, 9:53 AM

**State** Finished

**Completed on** Friday, 27 April 2018, 2:31 PM

**Time taken** 3 days 4 hours

**Grade** Not yet graded

Question **1**

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-53 *** */
```

```
SELECT      SUM(ExtendedPrice) AS WaterSportsRevenue
FROM        ORDER_ITEM
WHERE       SKU IN (100100, 100200, 101100, 101200);
```

**New Command:**

Select AVG(Price) AS WaterSportsPrice From ORDER\_ITEM WHERE  
OrderNumber IN (3000);

**English Sentence:**

Obtains Average for Price puts in WaterSportsPrice table with items only  
having an OrderNumber of 3000.

**Output:**

```
+-----+
| WaterSportsPrice |
+-----+
| 133.333333 |
+-----+
1 row in set (0.00 sec)
```

Question **2**

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-55 *** */  
  
SELECT      SUM(ExtendedPrice) AS WaterSportsRevenue  
  
FROM        ORDER_ITEM  
  
WHERE       SKU IN  
  
            (SELECT      SKU  
  
              FROM        SKU_DATA  
  
                WHERE     Department = 'Water Sports');
```

**New Command:**

Select AVG(ExtendedPrice) AS CampingRevenue From ORDER\_ITEM WHERE  
SKU IN (SELECT SKU FROM SKU\_DATA WHERE Department = 'Camping');

**English Sentence:**

Obtains average of ExtendedPrice for Camping department and puts it in a  
custom table CampingRevenue.

**Output:**

```
+-----+  
| CampingRevenue |  
+-----+  
| 215.000000 |  
+-----+  
1 row in set (0.00 sec)
```

Question **3**

Complete

Marked out of 1.00

```

/* *** SQL-Query-CH02-57 *** */

SELECT    Buyer, Department, COUNT(SKU) AS Number_Of_SKU_Sold
FROM      SKU_DATA
WHERE     SKU IN
          (SELECT    SKU
           FROM      ORDER_ITEM
           WHERE     OrderNumber IN
                   (SELECT    OrderNumber
                    FROM      RETAIL_ORDER
                    WHERE     OrderMonth='January'
                             AND    OrderYear=2015))

GROUP BY   Buyer, Department
ORDER BY   Number_Of_SKU_Sold;

```

#### **New Command:**

Select Buyer, SKU\_Description, COUNT(SKU) AS  
 Number\_of\_SKU\_Description\_Sold From SKU\_DATA Where SKU IN (Select  
 SKU FROM ORDER\_ITEM WHERE OrderNumber IN (Select OrderNumber  
 FROM RETAIL\_ORDER WHERE OrderMonth = 'December'AND  
 OrderYear=2014)) Group BY Buyer, Department Order BY  
 Number\_Of\_SKU\_Description\_Sold;

#### **English Sentence:**

Selects Buyer and SKU\_Description then counts number of items put them  
 in custom table called Number\_of\_SKU\_Description\_Sold then takes items  
 from RETAIL\_ORDER table by Month and Year sold in the custom table.

#### **Output:**

```

+-----+-----+-----+
| Buyer | SKU_Description | Number_of_SKU_Description_Sold |
+-----+-----+-----+
| Nancy Meyers | Dive Mask, Small Clear | 2 |

```

| Cindy Lo | Half-dome Tent | 2 |

+-----+-----+-----+

2 rows in set (0.00 sec)

Marked out of 1.00

WHERE RETAIL\_ORDER.OrderNumber = ORDER\_ITEM.OrderNumber;

```

+-----+-----+-----+-----+-----+-----+-----+
| OrderNumber | SKU | Quantity | Price | ExtendedPrice | SKU |
SKU_Description | Department | Buyer |
+-----+-----+-----+-----+-----+-----+-----+
| 3000 | 100200 | 1 | 300.00 | 300.00 | 100200 | Std. Scuba Tank,
Magenta | Water Sports | Pete Hansen |
| 2000 | 101100 | 4 | 50.00 | 200.00 | 101100 | Dive Mask, Small Clear |
Water Sports | Nancy Meyers |
| 3000 | 101100 | 2 | 50.00 | 100.00 | 101100 | Dive Mask, Small Clear |
Water Sports | Nancy Meyers |
| 2000 | 101200 | 2 | 50.00 | 100.00 | 101200 | Dive Mask, Med Clear |
Water Sports | Nancy Meyers |
| 3000 | 101200 | 1 | 50.00 | 50.00 | 101200 | Dive Mask, Med Clear |
Water Sports | Nancy Meyers |
| 1000 | 201000 | 1 | 300.00 | 300.00 | 201000 | Half-dome Tent |
Camping | Cindy Lo |
| 1000 | 202000 | 1 | 130.00 | 130.00 | 202000 | Half-dome Tent
Vestibule | Camping | Cindy Lo |
+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

```

## Question 5

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-60 *** */
```

```
SELECT      *
```

```
FROM        RETAIL_ORDER, ORDER_ITEM
```

```
WHERE       RETAIL_ORDER.OrderNumber=ORDER_ITEM.OrderNumber
```

```
ORDER BY    RETAIL_ORDER.OrderNumber, ORDER_ITEM.SKU;
```

**New Command:**

Select \* From SKU\_DATA, ORDER\_ITEM Where  
SKU\_DATA.SKU=ORDER\_ITEM.SKU ORDER BY SKU\_DATA.SKU,  
ORDER\_ITEM.SKU;

**English Sentence:**

Obtains SKU\_DATA and \_ORDER\_ITEM matching SKU"S and sorting in table  
by SKU.

**Output:**

```
+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+
```

```
| SKU | SKU_Description | Department | Buyer | OrderNumber | SKU |
Quantity | Price | ExtendedPrice |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+
```

```
| 100200 | Std. Scuba Tank, Magenta | Water Sports | Pete Hansen | 3000
| 100200 | 1 | 300.00 | 300.00 |
```

```
| 101100 | Dive Mask, Small Clear | Water Sports | Nancy Meyers | 3000 |
101100 | 2 | 50.00 | 100.00 |
```

```
| 101100 | Dive Mask, Small Clear | Water Sports | Nancy Meyers | 2000 |
101100 | 4 | 50.00 | 200.00 |
```

```
| 101200 | Dive Mask, Med Clear | Water Sports | Nancy Meyers | 3000 |
101200 | 1 | 50.00 | 50.00 |
```

```
| 101200 | Dive Mask, Med Clear | Water Sports | Nancy Meyers | 2000 |
101200 | 2 | 50.00 | 100.00 |
```

```
| 201000 | Half-dome Tent | Camping | Cindy Lo | 1000 | 201000 | 1 |
300.00 | 300.00 |
```

```
| 202000 | Half-dome Tent Vestibule | Camping | Cindy Lo | 1000 |
202000 | 1 | 130.00 | 130.00 |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+
```

7 rows in set (0.00 sec)

Question **6**

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-62 *** */
```

```
SELECT      Buyer, SKU_DATA.SKU, SKU_Description,
            SUM(ExtendedPrice) AS BuyerSKURevenue
FROM        SKU_DATA, ORDER_ITEM
WHERE       SKU_DATA.SKU=ORDER_ITEM.SKU
GROUP BY    Buyer, SKU_DATA.SKU, SKU_Description
ORDER BY    BuyerSKURevenue DESC;
```

**New Command:**

Select Buyer, SKU\_DATA.SKU, SKU\_Description, AVG(Price) AS BuyerSKUPrice From SKU\_DATA, ORDER\_ITEM Where SKU\_DATA.SKU=ORDER\_ITEM.SKU GROUP BY SKU\_DATA.SKU, SKU\_Description Order BY BuyerSKUPrice ;

**English Sentence:**

Obtains Buyer, SKU\_DATA.SKU and SKU\_Description averages price and puts average in new table then orders by BuyersSKUPrice.

**Output:**

```
+-----+-----+-----+-----+
| Buyer   | SKU   | SKU_Description       | BuyerSKUPrice |
+-----+-----+-----+-----+
| Nancy Meyers | 101200 | Dive Mask, Med Clear   | 50.000000 |
| Nancy Meyers | 101100 | Dive Mask, Small Clear | 50.000000 |
| Cindy Lo    | 202000 | Half-dome Tent Vestibule | 130.000000 |
| Pete Hansen | 100200 | Std. Scuba Tank, Magenta | 300.000000 |
| Cindy Lo    | 201000 | Half-dome Tent         | 300.000000 |
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

Question **7**

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-66 *** */
```

```
SELECT      *
FROM        RETAIL_ORDER JOIN ORDER_ITEM
           ON  RETAIL_ORDER.OrderNumber = ORDER_ITEM.OrderNumber
WHERE       OrderYear = '2014'
ORDER BY    RETAIL_ORDER.OrderNumber, ORDER_ITEM.SKU;
```

**New Command:**

Select \* From RETAIL\_ORDER JOIN ORDER\_ITEM ON  
RETAIL\_ORDER.OrderNumber = ORDER\_ITEM.OrderNumber Where  
OrderYear = '2015' Order BY RETAIL\_ORDER.StoreNumber,  
ORDER\_ITEM.Quantity;

**English Sentence:**

Joins all items from RETAIL\_ORDER & ORDER\_ITEM by OrderNumber for  
year 2015 ordered by StoreNumber and Quantity.

**Output:**

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+
| OrderNumber | StoreNumber | StoreZip | OrderMonth | OrderYear |
OrderTotal | OrderNumber | SKU   | Quantity | Price | ExtendedPrice |
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+
|      3000 |      10 | 98110 | January | 2015 | 480.00 | 3000
| 101200 | 1 | 50.00 | 50.00 |
|      3000 |      10 | 98110 | January | 2015 | 480.00 | 3000
| 100200 | 1 | 300.00 | 300.00 |
|      3000 |      10 | 98110 | January | 2015 | 480.00 | 3000
| 101100 | 2 | 50.00 | 100.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+
3 rows in set (0.00 sec)
```

Question **8**



Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-75 *** */
```

```
SELECT      OI.OrderNumber, Quantity,
            SD.SKU, SKU_Description, Department, Buyer
FROM        ORDER_ITEM AS OI RIGHT OUTER JOIN SKU_DATA AS SD
            ON  OI.SKU=SD.SKU
ORDER BY    OI.OrderNumber, SD.SKU;
```

### New Command:

Select OI.OrderNumber, Quantity, SD.SKU, SKU\_Description, Department, Buyer From ORDER\_ITEM AS OI RIGHT OUTER JOIN SKU\_DATA AS SD ON OI.SKU=SD.SKU Order BY OI.Quantity, SD.Buyer;

### English Sentence:

Obtains OrderNumber and Quantity for ORDER\_ITEM table and SKU, SKU\_Description, Department, and Buyer from SKU\_DATA table joins right table with left and orders by Quantity and Buyer.

### Output:

```
+-----+-----+-----+-----+-----+-----+
| OrderNumber | Quantity | SKU   | SKU_Description      | Department |
| Buyer      |          |       |                      |            |
+-----+-----+-----+-----+-----+-----+
|    NULL    |    NULL  | 301000 | Light Fly Climbing Harness | Climbing   |
Jerry Martin |
|    NULL    |    NULL  | 302000 | Locking Carabiner, Oval   | Climbing   |
Jerry Martin |
|    NULL    |    NULL  | 100100 | Std. Scuba Tank, Yellow   | Water Sports |
Pete Hansen |
|    1000    |    1     | 201000 | Half-dome Tent           | Camping     |
Cindy Lo    |
|    1000    |    1     | 202000 | Half-dome Tent Vestibule  | Camping     |
Cindy Lo    |
|    3000    |    1     | 101200 | Dive Mask, Med Clear     | Water Sports |
Nancy Meyers |
|    3000    |    1     | 100200 | Std. Scuba Tank, Magenta  | Water Sports |
Pete Hansen |
```

| 2000 | 2 | 101200 | Dive Mask, Med Clear | Water Sports |  
Nancy Meyers |

| 3000 | 2 | 101100 | Dive Mask, Small Clear | Water Sports |  
Nancy Meyers |

| 2000 | 4 | 101100 | Dive Mask, Small Clear | Water Sports |  
Nancy Meyers |

+-----+-----+-----+-----+-----+-----+

10 rows in set (0.00 sec)

Question **9**

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-76 *** */
```

```
SELECT      SKU, SKU_Description, Department
FROM        CATALOG_SKU_2014

UNION

SELECT      SKU, SKU_Description, Department
FROM        CATALOG_SKU_2015;
```

**New Command:**

Select SKU\_Description, Department From CATALOG\_SKU\_2015 UNION  
Select SKU\_Description, Department From CATALOG\_SKU\_2014;

**English Sentence:**

Obtains SKU\_Description and Department from Catalog\_2015 &  
Catalog\_2014 and combines them.

**Output:**

```
+-----+-----+
| SKU_Description | Department |
+-----+-----+
| Std. Scuba Tank, Yellow | Water Sports |
| Std. Scuba Tank, Magenta | Water Sports |
| Dive Mask, Small Clear | Water Sports |
| Dive Mask, Med Clear | Water Sports |
| Half-dome Tent | Camping |
| Half-dome Tent Vestibule | Camping |
| Half-dome Tent Vestibule - Wide | Camping |
| Light Fly Climbing Harness | Climbing |
| Locking Carabiner, Oval | Climbing |
+-----+-----+
9 rows in set (0.00 sec)
```

Question **10**

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-77 *** */
```

```
SELECT      SKU, SKU_Description, Department
FROM        CATALOG_SKU_2014
```

```
INTERSECT
```

```
SELECT      SKU, SKU_Description, Department
FROM        CATALOG_SKU_2015;
```

**New Command:**

```
SELECT SKU_DATA.SKU, INVENTORY.SKU_Description From
SKU_DATA INNER JOIN INVENTORY ON SKU_DATA.SKU = INVENTORY.SKU;
```

**English Sentence:**

Obtains SKU\_DATA and INVENTORY.SKU\_Description and inner joins tables to output SKU and SKU\_Description.

**Output:**

```
+-----+-----+
| SKU   | SKU_Description      |
+-----+-----+
| 100100 | Std. Scuba Tank, Yellow |
| 100100 | Std. Scuba Tank, Yellow |
| 100100 | Std. Scuba Tank, Yellow |
| 100100 | Std. Scuba Tank, Yellow |
| 100200 | Std. Scuba Tank, Magenta |
| 100200 | Std. Scuba Tank, Magenta |
| 100200 | Std. Scuba Tank, Magenta |
| 100200 | Std. Scuba Tank, Magenta |
| 101100 | Dive Mask, Small Clear  |
| 101100 | Dive Mask, Small Clear  |
| 101100 | Dive Mask, Small Clear  |
| 101100 | Dive Mask, Small Clear  |
| 101200 | Dive Mask, Med Clear    |
| 101200 | Dive Mask, Med Clear    |
| 101200 | Dive Mask, Med Clear    |
```

101200   Dive Mask, Med Clear	
201000   Half-dome Tent	
201000   Half-dome Tent	
201000   Half-dome Tent	
201000   Half-dome Tent	
202000   Half-dome Tent Vestibule	
202000   Half-dome Tent Vestibule	
202000   Half-dome Tent Vestibule	
202000   Half-dome Tent Vestibule	
301000   Light Fly Climbing Harness	
301000   Light Fly Climbing Harness	
301000   Light Fly Climbing Harness	
301000   Light Fly Climbing Harness	
302000   Locking Carabiner, Oval	
302000   Locking Carabiner, Oval	
302000   Locking Carabiner, Oval	
302000   Locking Carabiner, Oval	

+-----+-----+

32 rows in set (0.00 sec)

Question **11**

Complete

Marked out of 1.00

```
/* *** SQL-Query-CH02-78 *** */
```

```
SELECT      SKU, SKU_Description, Department
FROM        CATALOG_SKU_2014
```

```
EXCEPT
```

```
SELECT      SKU, SKU_Description, Department
FROM        CATALOG_SKU_2015;
```

**New Command:**

```
SELECT SKU_DATA.Department, INVENTORY.SKU_Description From
SKU_DATA LEFT JOIN INVENTORY ON SKU_DATA.SKU = INVENTORY.SKU;
```

**English Sentence:**

Obtains SKU\_DATA.Department and INVENTORY.SKU\_Description and Left Joins by SKU.

**Output:**

+-----+-----+	
Department	SKU_Description
+-----+-----+	
Water Sports	Std. Scuba Tank, Yellow
Water Sports	Std. Scuba Tank, Yellow
Water Sports	Std. Scuba Tank, Yellow
Water Sports	Std. Scuba Tank, Yellow
Water Sports	Std. Scuba Tank, Magenta
Water Sports	Std. Scuba Tank, Magenta
Water Sports	Std. Scuba Tank, Magenta
Water Sports	Std. Scuba Tank, Magenta
Water Sports	Dive Mask, Small Clear
Water Sports	Dive Mask, Small Clear
Water Sports	Dive Mask, Small Clear
Water Sports	Dive Mask, Small Clear
Water Sports	Dive Mask, Med Clear
Water Sports	Dive Mask, Med Clear
Water Sports	Dive Mask, Med Clear
Water Sports	Dive Mask, Med Clear
Camping	Half-dome Tent
Camping	Half-dome Tent
Camping	Half-dome Tent
Camping	Half-dome Tent
Camping	Half-dome Tent Vestibule
Camping	Half-dome Tent Vestibule
Camping	Half-dome Tent Vestibule
Camping	Half-dome Tent Vestibule
Climbing	Light Fly Climbing Harness
Climbing	Light Fly Climbing Harness
Climbing	Light Fly Climbing Harness
Climbing	Light Fly Climbing Harness

Climbing	Locking Carabiner, Oval	
Climbing	Locking Carabiner, Oval	
Climbing	Locking Carabiner, Oval	
Climbing	Locking Carabiner, Oval	

+-----+-----+

32 rows in set (0.00 sec)