

Benjamin Nye

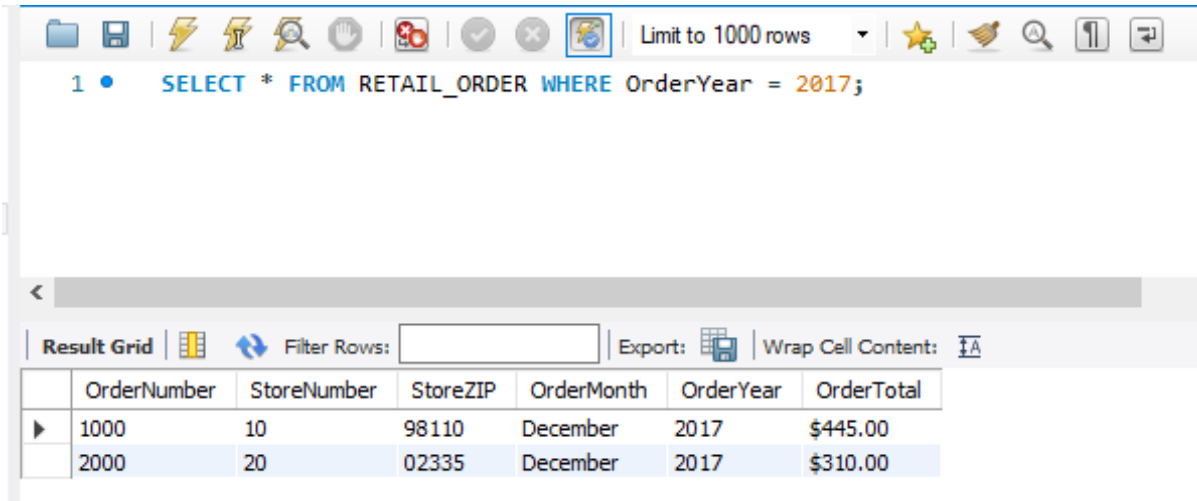
CS4332

Dr. C. J. Hwang

17 Sept. 2021

## Project 2

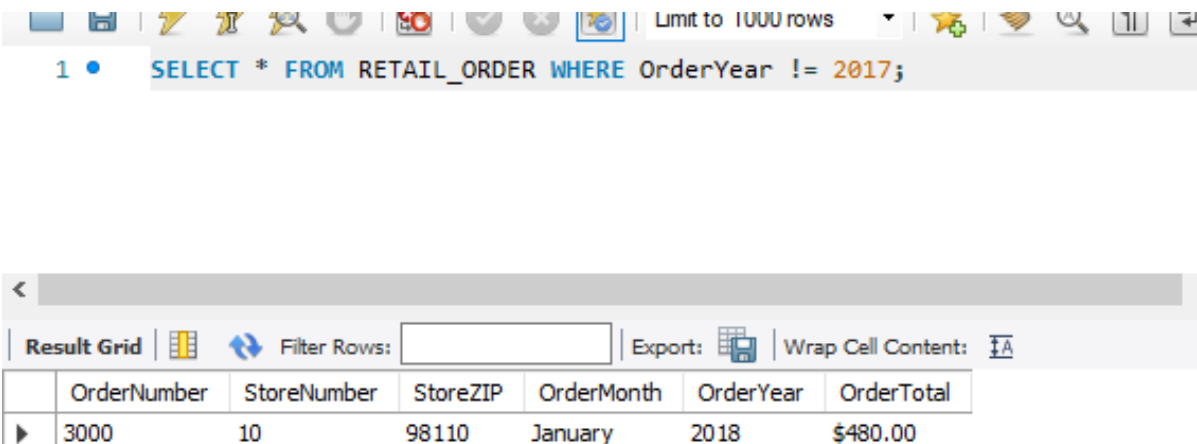
1. Selecting all the retail orders from the RETAIL\_ORDER table where the order was in the year 2017.



The screenshot shows a database query interface. At the top, there is a toolbar with various icons. Below the toolbar, the SQL query is displayed: `1 • SELECT * FROM RETAIL_ORDER WHERE OrderYear = 2017;`. Below the query, there is a section for the results. It includes a "Result Grid" tab, a "Filter Rows" input field, and an "Export" button. The results are displayed in a table with the following columns: OrderNumber, StoreNumber, StoreZIP, OrderMonth, OrderYear, and OrderTotal. The table contains two rows of data.

	OrderNumber	StoreNumber	StoreZIP	OrderMonth	OrderYear	OrderTotal
▶	1000	10	98110	December	2017	\$445.00
	2000	20	02335	December	2017	\$310.00

2. Selecting all the retail orders from the RETAIL\_ORDER table where the order was NOT in the year 2017.



The screenshot shows a database query interface. At the top, there is a toolbar with various icons. Below the toolbar, the SQL query is displayed: `1 • SELECT * FROM RETAIL_ORDER WHERE OrderYear != 2017;`. Below the query, there is a section for the results. It includes a "Result Grid" tab, a "Filter Rows" input field, and an "Export" button. The results are displayed in a table with the following columns: OrderNumber, StoreNumber, StoreZIP, OrderMonth, OrderYear, and OrderTotal. The table contains one row of data.

	OrderNumber	StoreNumber	StoreZIP	OrderMonth	OrderYear	OrderTotal
▶	3000	10	98110	January	2018	\$480.00

Benjamin Nye

CS4332

Dr. C. J. Hwang

17 Sept. 2021

3. Selecting all the items from the ORDER\_ITEM table and sorting the results by SKU

1 • `SELECT * FROM ORDER_ITEM ORDER BY SKU`

	OrderNumber	SKU	Quantity	Price	ExtendedPrice
▶	3000	100200	1	\$300.00	\$300.00
	2000	101100	4	\$50.00	\$200.00
	3000	101100	2	\$50.00	\$100.00
	2000	101200	2	\$50.00	\$100.00
	3000	101200	1	\$50.00	\$50.00
	1000	201000	1	\$300.00	\$300.00
	1000	202000	1	\$130.00	\$130.00

4. Selecting all the items from the ORDER\_ITEM table and sorting the results by SKU then Quantity

1 • `SELECT * FROM ORDER_ITEM ORDER BY SKU, Quantity`

	OrderNumber	SKU	Quantity	Price	ExtendedPrice
▶	3000	100200	1	\$300.00	\$300.00
	3000	101100	2	\$50.00	\$100.00
	2000	101100	4	\$50.00	\$200.00
	3000	101200	1	\$50.00	\$50.00
	2000	101200	2	\$50.00	\$100.00
	1000	201000	1	\$300.00	\$300.00
	1000	202000	1	\$130.00	\$130.00

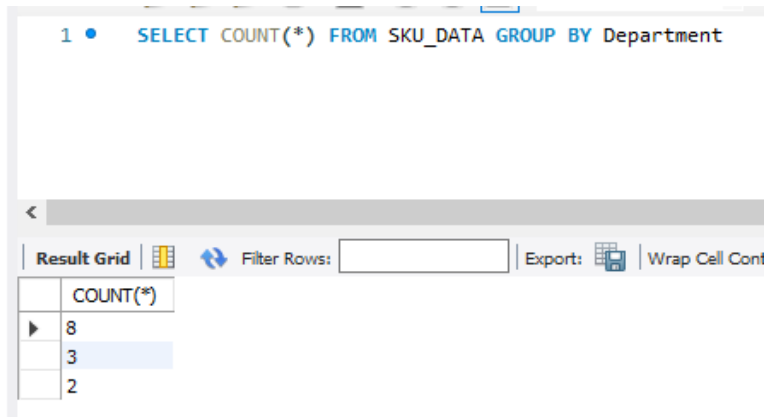
Benjamin Nye

CS4332

Dr. C. J. Hwang

17 Sept. 2021

5. Selecting the count of all the items in SKU\_DATA table and grouping the count by the Department.

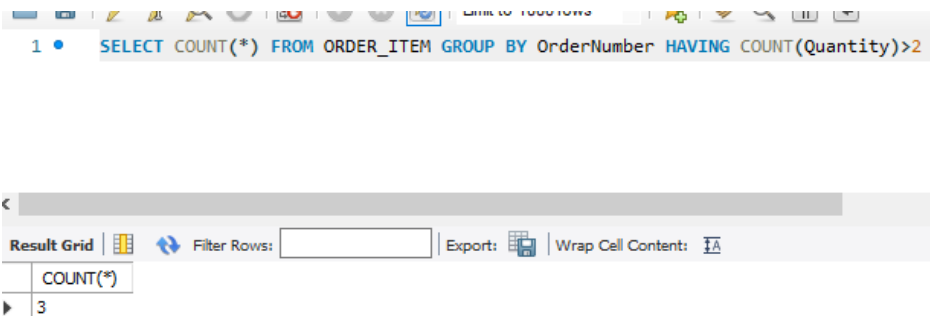


```
1 • SELECT COUNT(*) FROM SKU_DATA GROUP BY Department
```

Result Grid | Filter Rows: | Export: | Wrap Cell Cont

	COUNT(*)
▶	8
	3
	2

6. Selecting the count from ORDER\_ITEM table of all the items in orders where more than 1 item was bought.



```
1 • SELECT COUNT(*) FROM ORDER_ITEM GROUP BY OrderNumber HAVING COUNT(Quantity)>2
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	COUNT(*)
▶	3

Benjamin Nye

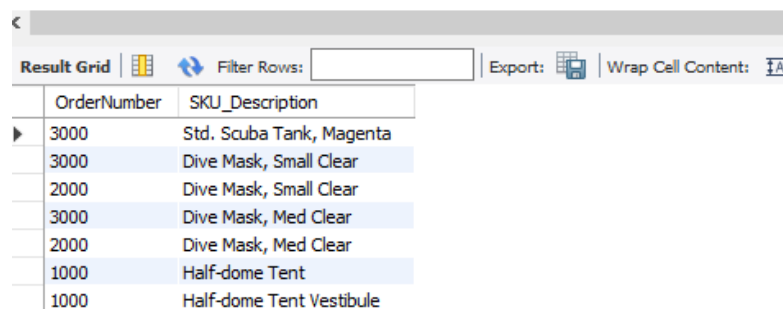
CS4332

Dr. C. J. Hwang

17 Sept. 2021

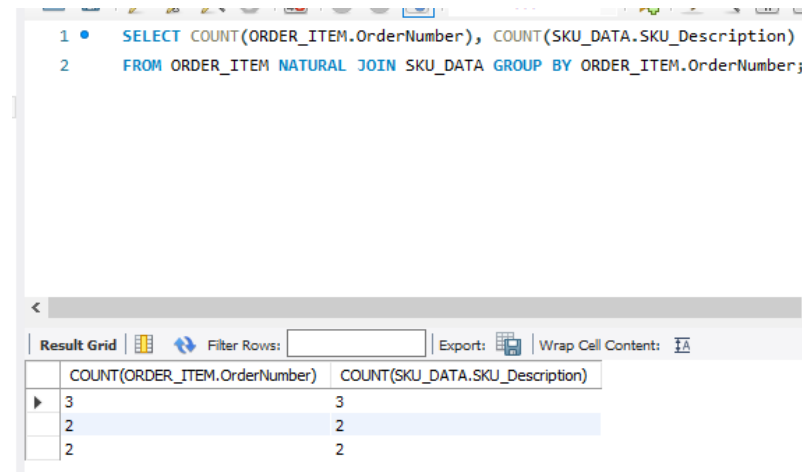
7. Selecting the order number from the ORDER\_ITEM table and the SKU description from the SKU\_DATA table and outputting it in one table. Displaying the items from each order.

```
1 SELECT ORDER_ITEM.OrderNumber, SKU_DATA.SKU_Description
2 FROM ORDER_ITEM NATURAL JOIN SKU_DATA;
```



OrderNumber	SKU_Description
3000	Std. Scuba Tank, Magenta
3000	Dive Mask, Small Clear
2000	Dive Mask, Small Clear
3000	Dive Mask, Med Clear
2000	Dive Mask, Med Clear
1000	Half-dome Tent
1000	Half-dome Tent Vestibule

8. Selecting the count of order number items and order item descriptions from the ORDER\_ITEM and SKU\_DATA tables and displaying them in a single table by order number.



```
1 SELECT COUNT(ORDER_ITEM.OrderNumber), COUNT(SKU_DATA.SKU_Description)
2 FROM ORDER_ITEM NATURAL JOIN SKU_DATA GROUP BY ORDER_ITEM.OrderNumber;
```

COUNT(ORDER_ITEM.OrderNumber)	COUNT(SKU_DATA.SKU_Description)
3	3
2	2
2	2

Benjamin Nye

CS4332

Dr. C. J. Hwang

17 Sept. 2021

**E/R Model:**

