PART 1 - TABLE ORDERS

```
-- ---------------------------------------------------------------------------
-- Q5. How many orders were placed in total?

SELECT
    COUNT(*) AS 'Number_of_placed_Orders'
FROM
    orders;
```

#	Number_of_placed_Orde
1	226909

```
-- ---------------------------------------------------------------------------
-- Q6. How many orders by state?

SELECT
    state, COUNT(*) AS OrdersByState
FROM
    orders
GROUP BY state;
```

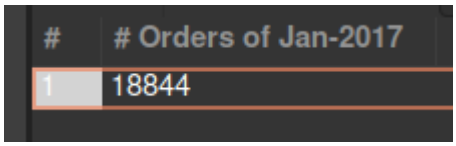
#	state	OrdersByState
1	Cancelled	7233
2	Completed	46605
3	Pending	14379
4	Shopping basket	117809
5	Place order	40883

```
-- ---------------------------------------------------------------------------
-- Q7. Select all the orders placed in January of 2017

SELECT
    *
FROM
    orders
WHERE
    MONTH(created_date) = 1
        AND YEAR(created_date) = 2017;
```

#	id_order	created_date	state	total_paid
1	241319	2017-01-02 13:35:40	Cancelled	44,99
2	245595	2017-01-21 12:52:47	Completed	112,97
3	245941	2017-01-01 10:32:23	Completed	183,52
4	254301	2017-01-08 13:10:53	Completed	35,91
5	254816	2017-01-12 15:57:20	Completed	283,83
6	260615	2017-01-10 18:59:49	Completed	225,16
7	261978	2017-01-10 00:19:44	Completed	109,98
8	265614	2017-01-16 15:40:05	Completed	147,48
9	265951	2017-01-26 12:08:46	Completed	121,46
10	266727	2017-01-30 15:03:51	Completed	150,02

-- ---
-- Q8. How many orders were placed in January of 2017?

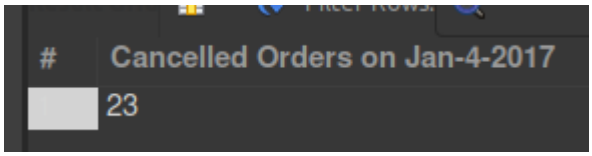
```
SELECT
   COUNT(*) AS '# Orders of Jan-2017'
FROM
   orders
WHERE
   MONTH(created_date) = 1
      AND YEAR(created_date) = 2017;
```



#	# Orders of Jan-2017
1	18844

-- ---
-- Q9. How many orders were cancelled on January 4th 2017?

```
SELECT
   COUNT(*) AS 'Cancelled Orders of Jan-4-2017'
FROM
   orders
WHERE
   DAY(created_date) = 4
      AND MONTH(created_date) = 1
      AND YEAR(created_date) = 2017
      AND state LIKE '%ancel%'; -- includes Cancel, cancel, Cancelled, cancell, etc...
```



#	Cancelled Orders on Jan-4-2017
	23

-- ---
-- Q10. How many orders have been placed each month of the year?

```
SELECT
   YEAR(created_date) AS 'Year',
   MONTH(created_date) AS 'Month',
   COUNT(MONTH(created_date)) AS '#Orders'
FROM
   orders
GROUP BY YEAR(created_date) , MONTH(created_date)
ORDER BY YEAR(created_date) , MONTH(created_date);
```

#	Year	Month	#Orders
1	2017	1	18844
2	2017	2	12182
3	2017	3	10726
4	2017	4	9943
5	2017	5	9631
6	2017	6	9920
7	2017	7	13829
8	2017	8	10347
9	2017	9	11533
10	2017	10	13798

-- ---

-- Q11. What is the total amount paid in all the orders?

```
SELECT
    SUM(total_paid) AS 'Total Paid'
FROM
    orders;
```

#	Total Paid
1	129011388

-- ---

-- Q12. What is the average amount paid per order? Give a result to the previous question with only 2 decimals

```
SELECT
    ROUND(AVG(total_paid), 2) AS 'Avg amount Paid'
FROM
    orders;
```

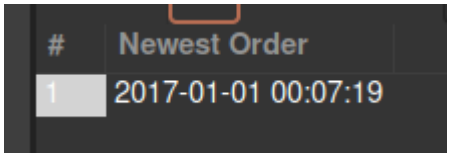
#	Avg amount Paid
1	568.56

-- ---

-- Q13 What is the date of the newest order? # Expected output: 2017-01-01 00:07:19

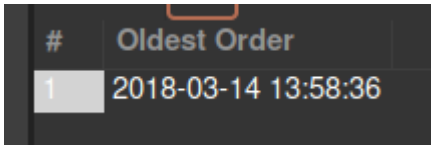
```
SELECT
    created_date AS 'Newest Order'
FROM
    orders
ORDER BY created_date ASC
```

```
LIMIT 1;
```



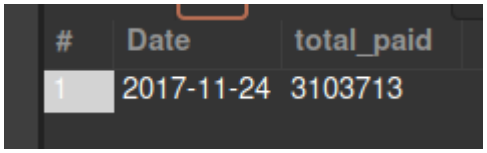
#	Newest Order
1	2017-01-01 00:07:19

```
-- ----------------------------------------------------------------------------
-- Q13.1 What about the oldest? # Expected output: 2018-03-14 13:58:36

SELECT
    created_date AS 'Oldest Order'
FROM
    orders
ORDER BY created_date DESC
LIMIT 1;
```



#	Oldest Order
1	2018-03-14 13:58:36

```
-- ----------------------------------------------------------------------------
-- Q13.2 What is the day with the highest amount paid (and how much was paid that day)?
-- # Expected output: 2017-11-24; 3,103,713
-- it ask for the highest amount paid in a day

SELECT
    CONCAT(YEAR(created_date), '-', MONTH(created_date), '-',DAY(created_date)) AS 'Date',
    SUM(total_paid) AS total_paid
FROM
    orders
GROUP BY Date
ORDER BY total_paid DESC
LIMIT 1;
```



#	Date	total_paid
1	2017-11-24	3103713

```
-- ----------------------------------------------------------------------------
-- Q13.3 What is the day with the highest amount of completed orders (and how many
completed orders were placed that day)? # Expected output: 2017-11-24; 1,569

SELECT
        CONCAT(YEAR(created_date), '-', MONTH(created_date), '-',DAY(created_date)) AS
'Date',
    state,
    COUNT(state) AS 'amount_of_orders'
FROM
    orders
WHERE
    state = 'Completed'
GROUP BY Date, state
ORDER BY amount_of_orders DESC
LIMIT 1;
```

#	Date	state	amount_of_orders
1	2017-11-24	Completed	1569