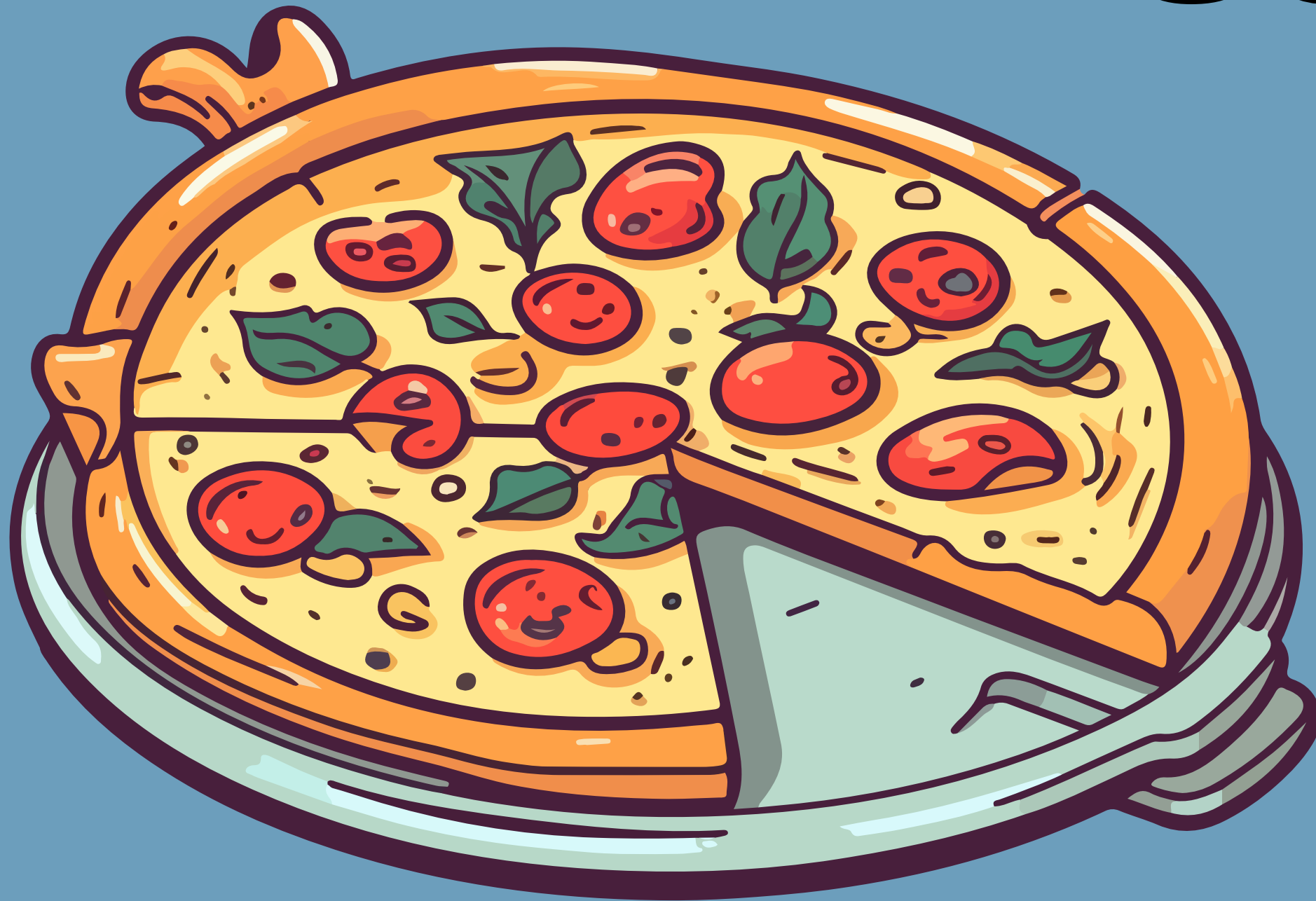


PIZZA SALES - SQL PROJECT



-ANTARJOT
SINGH

DATABASES

pizza_types.csv

File Origin

1252: Western European (Windows) ▾

Delimiter

Comma ▾

Data Type Detection

Based on first 200 rows ▾

Column1	Column2	Column3	Column4
pizza_type_id	name	category	ingredients
bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppers, Toma...
cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno Peppers, F...
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms, Asiago...
ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garlic, Pesto...
southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions, Jalapeno...
thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, Thai Swee...
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sausage
classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers, Bacon
hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
ital_cpcllo	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Cheese, Garlic...
napolitana	The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives, Red Onions, Garlic
pep_msh_pep	The Pepperoni, Mushroom, and Peppers Pizza	Classic	Pepperoni, Mushrooms, Green Peppers
pepperoni	The Pepperoni Pizza	Classic	Mozzarella Cheese, Pepperoni
the_greek	The Greek Pizza	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garlic, Beef C...
brie_carre	The Brie Carre Pizza	Supreme	Brie Carre Cheese, Prosciutto, Caramelized Onions, Pea...
calabrese	The Calabrese Pizza	Supreme	‘Nduja Salami, Pancetta, Tomatoes, Red Onions, Friggit...
ital_supr	The Italian Supreme Pizza	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, Gr...
peppr_salami	The Pepper Salami Pizza	Supreme	Genoa Salami, Capocollo, Pepperoni, Tomatoes, Asiago...
prsc_argla	The Prosciutto and Arugula Pizza	Supreme	Prosciutto di San Daniele, Arugula, Mozzarella Cheese

pizzas.csv

File Origin

1252: Western European (Windows) ▾

Delimiter

Comma

pizza_id	pizza_type_id	size	price
bbq_ckn_s	bbq_ckn	S	12.75
bbq_ckn_m	bbq_ckn	M	16.75
bbq_ckn_l	bbq_ckn	L	20.75
cali_ckn_s	cali_ckn	S	12.75
cali_ckn_m	cali_ckn	M	16.75
cali_ckn_l	cali_ckn	L	20.75
ckn_alfredo_s	ckn_alfredo	S	12.75
ckn_alfredo_m	ckn_alfredo	M	16.75
ckn_alfredo_l	ckn_alfredo	L	20.75
ckn_pesto_s	ckn_pesto	S	12.75
ckn_pesto_m	ckn_pesto	M	16.75
ckn_pesto_l	ckn_pesto	L	20.75
southw_ckn_s	southw_ckn	S	12.75
southw_ckn_m	southw_ckn	M	16.75
southw_ckn_l	southw_ckn	L	20.75
thai_ckn_s	thai_ckn	S	12.75
thai_ckn_m	thai_ckn	M	16.75
thai_ckn_l	thai_ckn	L	20.75
big_meat_s	big_meat	S	12
big_meat_m	big_meat	M	16

DATABASES

order_details.csv

File Origin		Delimiter	
1252: Western European (Windows) ▾		Comma	
order_details_id	order_id	pizza_id	quantity
1	1	hawaiian_m	1
2	2	classic_dlx_m	1
3	2	five_cheese_l	1
4	2	ital_supr_l	1
5	2	mexicana_m	1
6	2	thai_ckn_l	1
7	3	ital_supr_m	1
8	3	prsc_argla_l	1
9	4	ital_supr_m	1
10	5	ital_supr_m	1
11	6	bbq_ckn_s	1
12	6	the_greek_s	1
13	7	spinach_supr_s	1
14	8	spinach_supr_s	1
15	9	classic_dlx_s	1
16	9	green_garden_s	1
17	9	ital_cpcllo_l	1
18	9	ital_supr_l	1
19	9	ital_supr_s	1
20	9	mexicana_s	1

orders.csv

File Origin		
1252: Western European (Windows) ▾		
order_id	date	time
1	01-01-2015	11:38:36
2	01-01-2015	11:57:40
3	01-01-2015	12:12:28
4	01-01-2015	12:16:31
5	01-01-2015	12:21:30
6	01-01-2015	12:29:36
7	01-01-2015	12:50:37
8	01-01-2015	12:51:37
9	01-01-2015	12:52:01
10	01-01-2015	13:00:15
11	01-01-2015	13:02:59
12	01-01-2015	13:04:41
13	01-01-2015	13:11:55
14	01-01-2015	13:14:19
15	01-01-2015	13:33:00
16	01-01-2015	13:34:07
17	01-01-2015	13:53:00
18	01-01-2015	13:57:08
19	01-01-2015	13:59:09
20	01-01-2015	14:03:08

find the total number of orders

```
select  
count(order_id) as total  
from orders;
```

Result Grid	
	total
▶	21350

find the total revenue earned

```
select round(sum(orders_detail.quantity *pizzas.price)) as total_revenue  
from orders_detail  
inner join pizzas  
on orders_detail.pizza_id = pizzas.pizza_id ;
```

Result Grid		Filter
	total_revenue	
▶	817860	

find the highest priced pizza

```
select pizzas.price, pizza_types.name ,pizzas.pizza_id
from pizzas
join pizza_types
on pizzas.pizza_type_id=pizza_types.pizza_type_id
order by price desc limit 1;
```

Result Grid			
	price	name	pizza_id
▶	35.95	The Greek Pizza	the_greek_xxl

Identify the most common pizza size ordered

```
select size, count(orders_detail.quantity) as count from pizzas
join orders_detail on orders_detail.pizza_id = pizzas.pizza_id
group by pizzas.size
order by count desc limit 1;
```

Result Grid		
	size	count
▶	L	18526

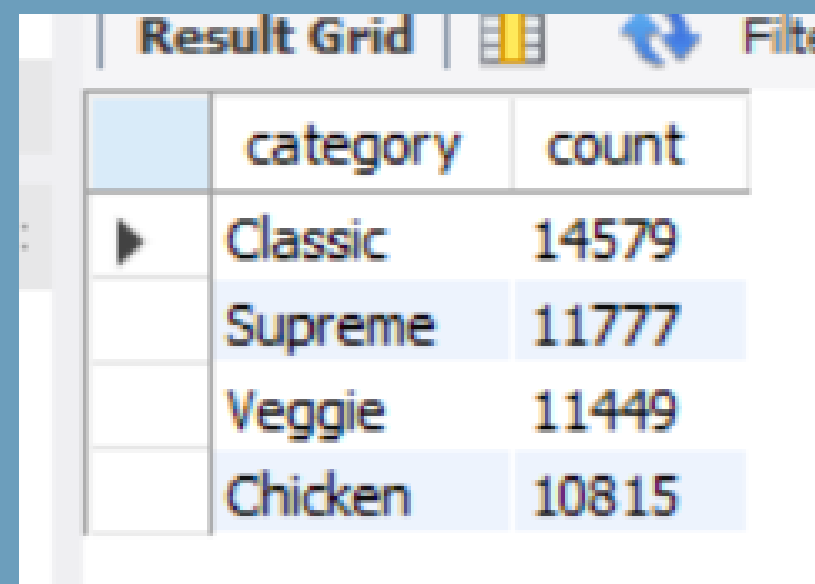
list the top 5 most ordered pizza types with thier quantity

```
select pizza_types.name, count(orders_detail.quantity) as count from pizzas
join pizza_types
on pizzas.pizza_type_id = pizza_types.pizza_type_id
join orders_detail on orders_detail.pizza_id=pizzas.pizza_id
group by pizza_types.name order by count desc limit 5 ;
```

Result Grid			Filter Rows:
	name	count	
▶	The Classic Deluxe Pizza	2416	
	The Barbecue Chicken Pizza	2372	
	The Hawaiian Pizza	2370	
	The Pepperoni Pizza	2369	
	The Thai Chicken Pizza	2315	

Find Total Quantity of each pizza category ordered

```
select pizza_types.category, count(orders_detail.quantity) as count
from pizza_types
join pizzas on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_detail on pizzas.pizza_id=orders_detail.pizza_id
group by pizza_types.category
order by count desc;
```

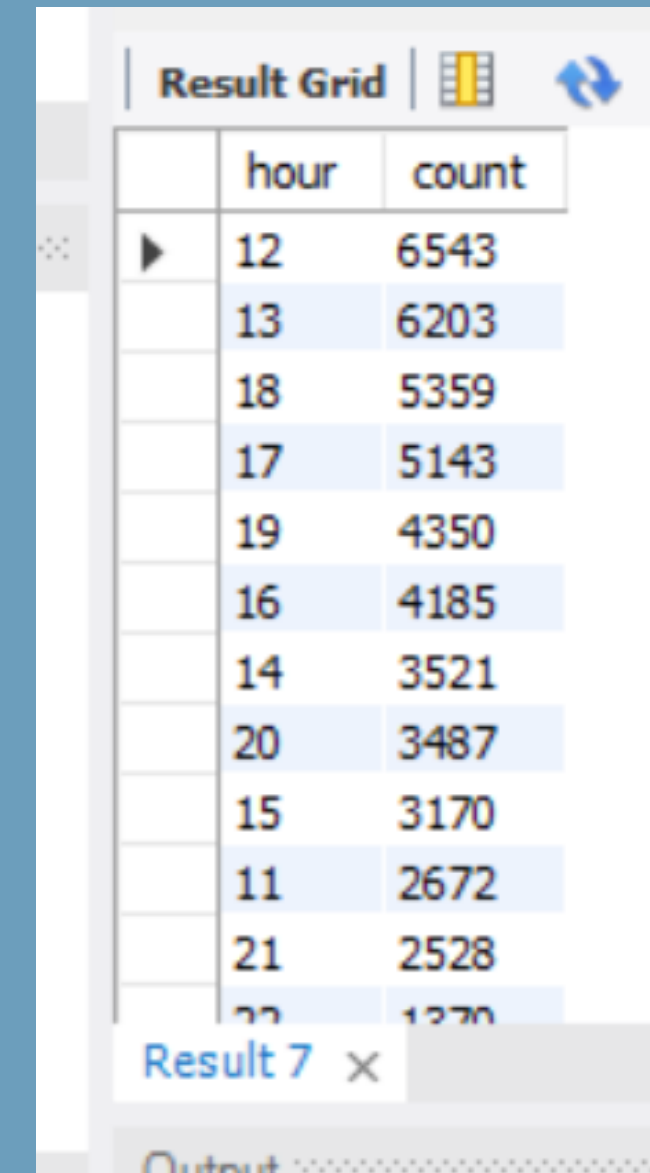


The screenshot shows a 'Result Grid' window with a table containing the results of the SQL query. The table has two columns: 'category' and 'count'. The data is ordered by count in descending order. The categories listed are Classic, Supreme, Veggie, and Chicken.

	category	count
▶	Classic	14579
	Supreme	11777
	Veggie	11449
	Chicken	10815

Determine the distribution of orders by the hour of the day

```
select hour(orders.order_time) as hour,  
       count(orders_detail.quantity) as count  
from orders_detail join orders  
on orders.order_id = orders_detail.order_id  
group by hour order by count desc;
```



The screenshot shows a 'Result Grid' window with a table of order counts by hour. The table has two columns: 'hour' and 'count'. The data is sorted in descending order of count. The first row is highlighted with a mouse cursor. Below the table, there is a tab labeled 'Result 7' and a partially visible 'Output' section.

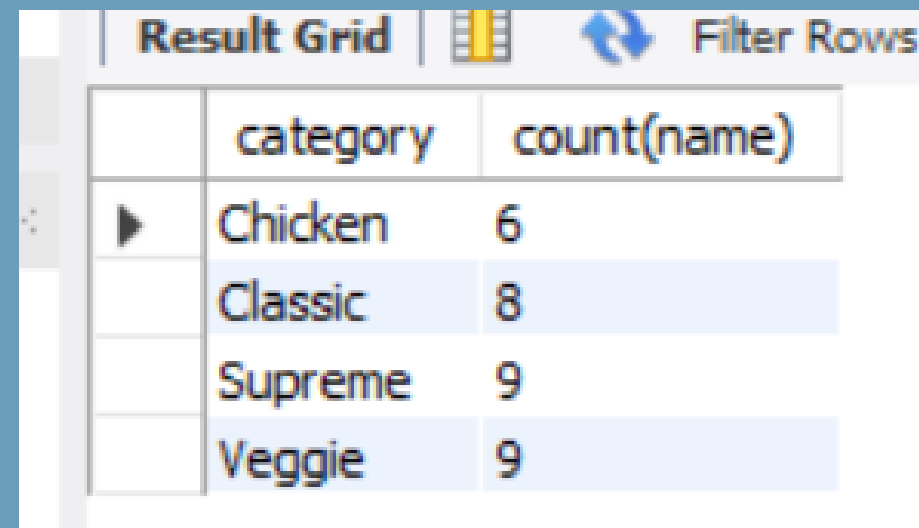
	hour	count
▶	12	6543
	13	6203
	18	5359
	17	5143
	19	4350
	16	4185
	14	3521
	20	3487
	15	3170
	11	2672
	21	2528
	22	1270

Result 7 ×

Output

Join Relevant Table to find category wise distribution of pizza

```
select category, count(name) from pizza_types  
group by category;
```



The screenshot shows a database interface with a 'Result Grid' tab. The grid contains the results of the SQL query, showing the count of pizzas for each category. The columns are 'category' and 'count(name)'. The rows are: Chicken (6), Classic (8), Supreme (9), and Veggie (9). The 'Filter Rows' button is visible in the top right corner of the grid.

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

Group the orders by date and calculate the average number of pizzas ordered per day

```
select round(avg(sum)) as avg from  
  (select orders.order_date, sum(orders_detail.quantity) as sum  
   from orders_detail  
   join orders  
   on orders.order_id = orders_detail.order_id  
   group by orders.order_date) as order_quantity;
```

Result Grid	
	avg
▶	138

Determine the top 3 most ordered pizza types based on revenue

```
select pizza_combined.name, sum(orders_detail.quantity* pizza_combined.price)
as total from orders_detail
join (select pizzas.pizza_id, pizza_types.name, pizzas.price from pizza_types
join pizzas
on pizza_types.pizza_type_id =pizzas.pizza_type_id) as pizza_combined
on orders_detail.pizza_id = pizza_combined.pizza_id
group by pizza_combined.name
order by total desc limit 3;
```

	name	total
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Calculate the percentage contribution of each pizza type to the revenue

```
select name,  
round(sum(100*pizzas.price*orders_detail.quantity)/  
(select round(sum(pizzas.price* orders_detail.quantity)) as total  
from orders_detail  
join pizzas on orders_detail.pizza_id=pizzas.pizza_id)) as sum from pizza_types  
join pizzas  
on pizzas.pizza_type_id=pizza_types.pizza_type_id  
join orders_detail  
on orders_detail.pizza_id=pizzas.pizza_id  
group by name;
```

	name	sum
▶	The Hawaiian Pizza	4
	The Classic Deluxe Pizza	5
	The Five Cheese Pizza	3
	The Italian Supreme Pizza	4
	The Mexicana Pizza	3
	The Thai Chicken Pizza	5
	The Prosciutto and Arugula Pizza	3
	The Barbecue Chicken Pizza	5
	The Greek Pizza	3
	The Spinach Supreme Pizza	2
	The Green Garden Pizza	2
	The Italian Cannelloni Pizza	2

Result 49 x

Analyze the cumulative revenue generated over time

```
select order_date, sum(total) over(order by order_date)
from (select orders.order_date, round(sum(pizzas.price* orders_detail.quantity)) as total
from orders
join orders_detail
on orders_detail.order_id=orders.order_id
join pizzas on orders_detail.pizza_id=pizzas.pizza_id
group by orders.order_date) as sales;
```

Result Grid			Filter Rows:	Ex
	order_date	sum(total) over(order by order_date)		
▶	2015-01-01	2714		
	2015-01-02	5446		
	2015-01-03	8108		
	2015-01-04	9863		
	2015-01-05	11929		
	2015-01-06	14358		
	2015-01-07	16560		
Result 6			×	