SQL Lab Exercices

Alexis Oger & Albert Xavier Lopez

	1)	Get the firs	st 5	products	of	category	"meat"	sorted by	y descri	ption
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SELECT * from products where category='meat' order by description limit 5;

++	++			
id category description				
++	++			
14 meat	roast chicken			
96 meat	Beef Flat Iron Steak			
97 meat	Chevere Logs			
22 meat	Chicken - Breast			
56 meat	Cornish Hen			
++	++			

2) Which products contain Beers?

SELECT*from products where description like "%beer%";

3) Get all products details of all items in the catalog.

SELECT*from products;

++	
id category description	
++	
1 soda mountain dew	1
2 dairy skimmed milk	1
3 spirits rhein	
4 dairy milk	
5 Cleaning soap-2	
6 Cleaning dixan	

4) Get the 5 customers that have purchased more products in stock.

select sum(quant), count(distinct o.prodld),custld from orders o,stock s where o.prodld=s.id and s.quantity>0 group by o.custld order by sum(quant) desc limit 5;

++					
sum(quant) count(distinct o.prodId) custId					
+	+	+	+		
	491	6	46		
	434	11	75		
	422	7	78		
	393	7	52		
	354	5	9		
+		+_	+		

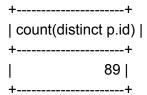
5) Get the providers for the custumers of the last query.

select o.id order_id, o.prodld,o.custld,p.name provider_name,c.qqq from orders o,providers p,(select custld,sum(quant) qqq from orders o,stock s where o.prodld=s.id and s.quantity>0 group by o.custld order by sum(quant) desc limit 5) c where o.provld = p.id and o.custld=c.custld order by o.custld;

+	+	+	+	++			
orde	order_id prodld custld provider_name qqq						
+	+	+	+	++			
	135	35	9 Twinder	354			
	97	90	9 Zoovu	354			
	281	0	9 Jatri	354			
	10	11	9 Eamia	354			
	252	45	9 Mycat	354			
	158	67	9 Riffpedia	354			
	144	11	9 Flashpoint	354			

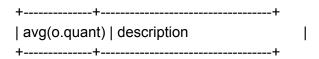
6) How many providers have products in stock?

select count(distinct p.id) from providers p,orders o,stock s where p.id = o.provld and o.prodld=s.id and s.quantity!=0 order by p.id;



7) Which is the average purchased quantity of products in stock?

select avg(o.quant),prod.description from orders o,stock s, products prod where o.prodld=s.id and prod.id = o.prodld and s.quantity>0 group by o.prodld;



	35.3333 mountain dew	
	68.5000 skimmed milk	
	47.7500 rhein	
	29.0000 milk	
	58.6000 soap-2	

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8) Is there any city in common between providers and customers?

select distinct a.city from customers a, providers b where a.city = b.city;



9) Is there any product with the double of quantity in different orders?

select a.id,b.id,a.prodld,a.quant,b.quant from orders a, orders b where a.prodld = b.prodld and a.id != b.id and (a.quant = 2*b.quant or 2*a.quant = b.quant);

++	+	+	+
id id pro	dld qu	ant qu	ant
++	+	+	+
253 21	89	8	16
253 24	89	8	16
165 32	88	64	32
266 56	74	14	7
96 59	89	20	40

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10) Can you find the total number of customers for each city?

select city, count(city) from orders join customers on (orders.custId=customers.id) group by city;

+		-+
city	count(c	ity)
+		-+
?abbar		4
A? ?urrah		3
Akim Swedru		7
Atsipópoulon		3
Avignon		4
Banjar Penyalin		2

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