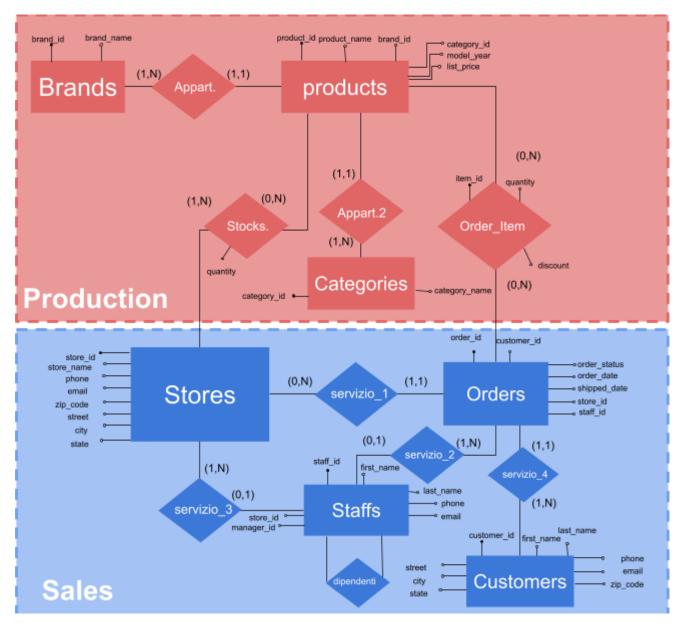
schema entità/relazione database



modello logico

```
Brands {brand_id_, brand_name

Products {product_id_, product_name, brand_id_,

category_id_, model_year_, list_price

Categories { category_id_, category_name

Stores { store_id_, store_name, phone, email,

zip_code,street,city, state

Orders {order_id_, customer_id_, order_date,

shipped_date, store_id_, staff_id

Staffs { staff_id_, first_name,

last_name,phone,email,store_id_,manager_id

Customers {customer_id_, first_name,

last_name,phone,email,zip_code,street,city,state
```

query sql:

Quando si vuole scrivere una query i passaggi sono i seguenti:

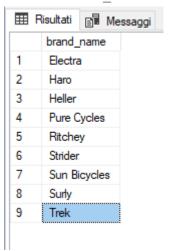
1-individuare in quale tabelle si trovano le informazioni se le informazioni sono in più tabelle,devo fare una join individuando i campi che hanno in relazione

2- visualizzare i campi richiesti dal testo all'interno della select(SELEZIONE VERTICALE, PRENDO SOLO ALCUNI CAMPI E COLONNE)

3-se non sono necessari tutti i record ma solo alcuni, utilizzare la clausola WHERE(SELEZIONE ORIZZONTALE, PRENDO ALCUNI RECORD O RIGHE DELLA TABELLA)

1. i nomi dei brand

select brand name from production.brands



2. i nomi dei prodotti con il brand

```
SELECT product_name, brand_name
FROM production.products INNER JOIN production.brands
ON production.brands.brand_id = production.products.brand_id
```

	product_name	brand_name
1	Trek 820 - 2016	Trek
2	Ritchey Timberwolf Frameset - 2016	Ritchey
3	Surly Wednesday Frameset - 2016	Surly
4	Trek Fuel EX 8 29 - 2016	Trek
5	Heller Shagamaw Frame - 2016	Heller
6	Surly Ice Cream Truck Frameset - 2016	Surly
7	Trek Slash 8 27.5 - 2016	Trek
8	Trek Remedy 29 Carbon Frameset - 2016	Trek
9	Trek Conduit+ - 2016	Trek
10	Surly Straggler - 2016	Surly
11	Surly Straggler 650b - 2016	Surly
12	Electra Townie Original 21D - 2016	Electra
13	Electra Cruiser 1 (24-Inch) - 2016	Electra
14	Electra Girl's Hawaii 1 (16-inch) - 2015/2016	Electra
15	Electra Moto 1 - 2016	Electra
16	Electra Townie Original 7D EQ - 2016	Electra
17	Pure Cycles Vine 8-Speed - 2016	Pure Cycles
18	Pure Cycles Western 3-Speed - Women's - 2015/2016	Pure Cycles
19	Pure Cycles William 3-Speed - 2016	Pure Cycles

3. i nomi dei prodotti con il brand e la categoria a cui appartiene il prodotto

SELECT product_name, brand_name, category_name
FROM production.products INNER JOIN production.brands
ON production.brands.brand_id = production.products.brand_id
INNER JOIN production.categories

on production.categories.category_id = production.products.category_id

⊞ F	Risultati 🗐 Messaggi			
	product_name	brand_name	category_name	
1	Trek 820 - 2016	Trek	Mountain Bikes	
2	Ritchey Timberwolf Frameset - 2016	Ritchey	Mountain Bikes	
3	Surly Wednesday Frameset - 2016	Surly	Mountain Bikes	
4	Trek Fuel EX 8 29 - 2016 Trek Mountain Bikes			
5	Heller Shagamaw Frame - 2016 Heller Mountain Bikes			
6	Surly Ice Cream Truck Frameset - 2016	Surly	Mountain Bikes	
7	Trek Slash 8 27.5 - 2016	Trek	Mountain Bikes	
8	Trek Remedy 29 Carbon Frameset - 2016	Trek	Mountain Bikes	
9	Trek Conduit+ - 2016	Trek	Electric Bikes	
10	Surly Straggler - 2016	Surly	Cyclocross Bicycles	
11	Surly Straggler 650b - 2016	Surly	Cyclocross Bicycles	
12	Electra Townie Original 21D - 2016	Electra	Cruisers Bicycles	
13	Electra Cruiser 1 (24-Inch) - 2016	Electra	Cruisers Bicycles	
14	Electra Girl's Hawaii 1 (16-inch) - 2015/2016	Electra	Cruisers Bicycles	
15	Electra Moto 1 - 2016	Electra	Cruisers Bicycles	
16	Electra Townie Original 7D EQ - 2016	Electra	Cruisers Bicycles	
17	Pure Cycles Vine 8-Speed - 2016	Pure Cycles	Cruisers Bicycles	
18	Pure Cycles Western 3-Speed - Women's - 2015/2016	Pure Cycles	Cruisers Bicycles	
19	Pure Cycles William 3-Speed - 2016	Pure Cycles	Cruisers Bicycles	

4. i nomi dei prodotti con le quantità disponibili in stock

```
SELECT product_name, quantity
FROM production.products INNER JOIN production.stocks
ON production.products.product id = production.products.product id
```

⊞F	Risultati	B Mes	saggi
	product	_name	quantity
1	Trek 82	20 - 2016	27
2	Trek 82	20 - 2016	5
3	Trek 82	20 - 2016	6
4	Trek 82	20 - 2016	23
5	Trek 82	20 - 2016	22
6	Trek 82	20 - 2016	0
7	Trek 82	20 - 2016	8
8	Trek 82	20 - 2016	0
9	Trek 82	20 - 2016	11
10	Trek 82	20 - 2016	15
11	Trek 82	20 - 2016	8
12	Trek 82	20 - 2016	16
13	Trek 82	20 - 2016	13
14	Trek 82	20 - 2016	8
15	Trek 82	20 - 2016	3
16	Trek 82	20 - 2016	4
17	Trek 82	20 - 2016	2
18	Trek 82	20 - 2016	16
19	Trek 82	20 - 2016	4

5. i nomi dei prodotti che hanno uno stock superiore a 10

select product_name, quantity
from production.products inner join production.stocks
on production.products.product_id = production.stocks.product_id
where production.stocks.quantity >= 10

⊞ Ri	■ Risultati		
	product_name	quantity	
1	Trek 820 - 2016	27	
2	Trek 820 - 2016	14	
3	Trek 820 - 2016	14	
4	Ritchey Timberwolf Frameset - 2016	24	
5	Ritchey Timberwolf Frameset - 2016	16	
6	Surly Wednesday Frameset - 2016	28	
7	Trek Fuel EX 8 29 - 2016	23	
8	Trek Fuel EX 8 29 - 2016	11	
9	Heller Shagamaw Frame - 2016	22	
10	Surly Ice Cream Truck Frameset - 2016	11	

6. i nomi dei prodotti che hanno uno stock compreso tra 5 e 10

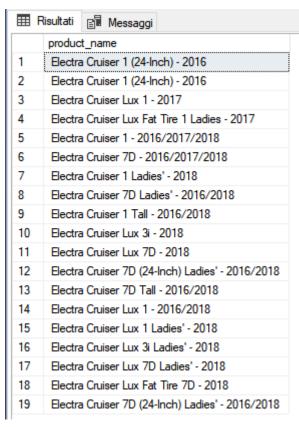
```
select product_name, quantity
from production.products inner join production.stocks
on production.products.product_id = production.stocks.product_id
where production.stocks.quantity between 5 and 10
```

⊞F			
	product_name	quantity	
1	Ritchey Timberwolf Frameset - 2016	5	
2	Surly Wednesday Frameset - 2016	6	
3	Trek Slash 8 27.5 - 2016	8	
4	Trek Slash 8 27.5 - 2016	8	
5	Surly Straggler 650b - 2016	8	
6	Electra Girl's Hawaii 1 (16-inch) - 2015/2016	8	
7	Electra Moto 1 - 2016	6	
8	Pure Cycles Western 3-Speed - Women's - 2015/2016	5	
9	Electra Cruiser 1 (24-Inch) - 2016	8	
10	Electra Girl's Hawaii 1 (20-inch) - 2015/2016	8	
11	Electra Girl's Hawaii 1 (20-inch) - 2015/2016	9	
12	Electra Townie Original 21D - 2016	10	

7. i nomi dei prodotti che hanno uno stock compreso tra 5 e 10 e che costano meno di 300 \$ select product_name, quantity,list_price from production.products inner join production.stocks on production.products.product_id = production.stocks.product_id where production.stocks.quantity between 5 and 10 AND production.products.list_price <= 300</p>

	product_name	quantity	list_price
1	Electra Girl's Hawaii 1 (16-inch) - 2015/2016	8	269.99
2	Electra Cruiser 1 (24-Inch) - 2016	8	269.99
3	Electra Girl's Hawaii 1 (20-inch) - 2015/2016	8	299.99
4	Electra Girl's Hawaii 1 (20-inch) - 2015/2016	9	299.99
5	Sun Bicycles Revolutions 24 - Girl's - 2017	8	250.99
6	Sun Bicycles Revolutions 24 - Girl's - 2017	6	250.99
7	Trek Precaliber 12 Girls - 2017	8	189.99
8	Trek Precaliber 12 Girls - 2017	7	189.99
9	Trek Precaliber 16 Boys - 2017	9	209.99
10	Trek Precaliber 16 Boys - 2017	8	209.99
11	Trek Precaliber 16 Girls - 2017	9	209.99
12	Haro Shredder Pro 20 - 2017	6	249.99
13	Electra Girl's Hawaii 1 16" - 2017	10	299.99
14	Electra Cruiser 1 - 2016/2017/2018	10	269.99
15	Electra Cruiser 1 - 2016/2017/2018	10	269.99
16	Electra Cruiser 1 Ladies' - 2018	6	269.99
17	Trek MT 201 - 2018	8	249.99
18	Trek MT 201 - 2018	6	249.99
19	Strider Sport 16 - 2018	7	249.99
20	Trek Precaliber 16 Boy's - 2018	6	209.99

8. i nomi dei prodotti che hanno la parola "Cruiser" nel nome
select product_name
from production.products
where product_name like '%Cruiser%'



9. i nomi dei prodotti che non hanno la parola "Cruiser" nel nome select product_name

from production.products

where product_name not like '%Cruiser%'

III	⊞ Risultati		
	product_name		
1	Trek 820 - 2016		
2	Ritchey Timberwolf Frameset - 2016		
3	Surly Wednesday Frameset - 2016		
4	Trek Fuel EX 8 29 - 2016		
5	Heller Shagamaw Frame - 2016		
6	Surly Ice Cream Truck Frameset - 2016		
7	Trek Slash 8 27.5 - 2016		
8	Trek Remedy 29 Carbon Frameset - 2016		
9	Trek Conduit+ - 2016		
10	Surly Straggler - 2016		
11	Surly Straggler 650b - 2016		
12	Electra Townie Original 21D - 2016		
13	Electra Girl's Hawaii 1 (16-inch) - 2015/2016		
14	Electra Moto 1 - 2016		
15	Electra Townie Original 7D EQ - 2016		
16	Pure Cycles Vine 8-Speed - 2016		
17	Pure Cycles Western 3-Speed - Women's - 2015/2016		
18	Pure Cycles William 3-Speed - 2016		
19	Flectra Townie Original 7D FQ - Women's - 2016		