

1. il numero di prodotti per ogni brand

```
SELECT brand_name, COUNT(*) as totale_prodotti
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
GROUP BY brand_name
ORDER BY totale_prodotti DESC
```

	brand_name	totale_prodotti
1	Trek	135
2	Electra	118
3	Surly	25
4	Sun Bicycles	23
5	Haro	10
6	Heller	3
7	Pure Cycles	3
8	Strider	3
9	Ritchey	1

2. i brand che hanno più di 10 prodotti

```
SELECT brand_name, COUNT(*) as totale_prodotti
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
GROUP BY brand_name
HAVING COUNT(*) > 10
ORDER BY totale_prodotti DESC
```

	brand_name	totale_prodotti
1	Trek	135
2	Electra	118
3	Surly	25
4	Sun Bicycles	23

3. il prezzo massimo dei prodotti di ogni brand

```
SELECT brand_name, MAX(list_price)
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
GROUP BY brand_name
ORDER BY MAX(list_price) DESC
```

	brand_name	totale_prodotti
1	Trek	11999.99
2	Electra	2999.99
3	Heller	2599.00
4	Surly	2499.99
5	Sun Bicycles	1559.99
6	Haro	1469.99
7	Ritchey	749.99
8	Pure Cycles	449.00
9	Strider	289.99

4. il prezzo medio dei prodotti di ogni brand

```
SELECT brand_name, AVG(list_price)
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
GROUP BY brand_name
ORDER BY AVG(list_price) DESC
```

	brand_name	(Nessun nome di colonna)
1	Trek	2500.064074
2	Heller	2172.996666
3	Surly	1331.753600
4	Electra	761.006186
5	Ritchey	749.990000
6	Haro	621.990000
7	Sun Bicycles	524.468260
8	Pure Cycles	442.333333
9	Strider	209.990000

5. il brand del prodotto che costa di più

```
SELECT brand_name
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
WHERE list_price = (SELECT MAX(list_price) FROM production.products)
```

	brand_name
1	Trek

6. la categoria del prodotto che costa di meno

```
SELECT category_name
FROM production.products INNER JOIN production.categories
ON production.products.category_id = production.categories.category_id
WHERE list_price = (SELECT MAX(list_price) FROM production.products)
```

	category_name
1	Road Bikes

7. il nome, il brand e la categoria dei prodotti che costano più della media

```
SELECT product_name, brand_name, category_name
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
INNER JOIN production.categories
ON production.categories.category_id = production.products.category_id
WHERE list_price > (SELECT AVG(list_price) FROM production.products)
```

	product_name	brand_name	category_name
1	Trek Fuel EX 8 29 - 2016	Trek	Mountain Bikes
2	Trek Slash 8 27.5 - 2016	Trek	Mountain Bikes
3	Trek Remedy 29 Carbon Frameset - 2016	Trek	Mountain Bikes
4	Trek Conduit+ - 2016	Trek	Electric Bikes
5	Surly Straggler - 2016	Surly	Cyclocross Bicycles
6	Surly Straggler 650b - 2016	Surly	Cyclocross Bicycles
7	Surly Karate Monkey 27.5+ Frameset - 2017	Surly	Mountain Bikes
8	Surly Wednesday - 2017	Surly	Mountain Bikes
9	Trek Fuel EX 9.8 29 - 2017	Trek	Mountain Bikes
10	Trek Fuel EX 5 27.5 Plus - 2017	Trek	Mountain Bikes
11	Trek Fuel EX 9.8 27.5 Plus - 2017	Trek	Mountain Bikes
12	Trek Remedy 9.8 - 2017	Trek	Mountain Bikes

8. i clienti di cui non si conosce il numero di telefono

```
SELECT * FROM sales.customers
WHERE phone IS NULL
```

	customer_id	first_name	last_name	phone	email	street	city	state	zip_code
4	4	Daryl	Spence	NULL	daryl.spence@aol.com	988 Pearl Lane	Uniondale	NY	11553
5	6	Lyndsey	Bean	NULL	lyndsey.bean@hotmail.com	769 West Road	Fairport	NY	14450
6	8	Jacqueline	Duncan	NULL	jacqueline.duncan@yahoo.com	15 Brown St.	Jackson Heights	NY	11372
7	9	Genoveva	Baldwin	NULL	genoveva.baldwin@msn.com	8550 Spruce Drive	Port Washington	NY	11050
8	10	Pamelia	Newman	NULL	pamelia.newman@gmail.com	476 Chestnut Ave.	Monroe	NY	10950
9	11	Deshawn	Mendoza	NULL	deshawn.mendoza@yahoo.com	8790 Cobblestone Street	Monsey	NY	10952
10	13	Lashawn	Ortiz	NULL	lashawn.ortiz@msn.com	27 Washington Rd.	Longview	TX	75604
11	14	Gary	Espinoza	NULL	gary.espinoza@hotmail.com	7858 Rockaway Court	Fomey	TX	75126
12	15	Linnie	Branch	NULL	linnie.branch@gmail.com	314 South Columbia Ave.	Plattsburgh	NY	12901

9. il brand con più prodotti

```
SELECT brand_name, COUNT(*) as totale_clienti
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
GROUP BY brand_name
HAVING COUNT(*) = (SELECT MAX(totale_clienti) FROM
(SELECT brand_name, COUNT(*) as totale_clienti
FROM production.products INNER JOIN production.brands
ON production.products.brand_id = production.brands.brand_id
```

```
GROUP BY brand_name) as t)
```

Risultati		Messaggi
	brand_name	totale_clienti
1	Trek	135