

1. il numero di prodotti per ogni brand

```
select brand_name, count(*) as NumeroDiProdotti from  
production.products  
inner join production.brands  
on production.brands.brand_id = production.products.brand_id  
group by brands.brand_name
```

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

2. i brand che hanno più di 10 prodotti

```
select brand_name, count(*) as NumeroDiProdotti from  
production.products  
inner join production.brands  
on production.brands.brand_id = production.products.brand_id  
group by brands.brand_name  
having count(*) > 10
```

| | brand_name | NumeroDiProdotti |
|---|--------------|------------------|
| 1 | Electra | 118 |
| 2 | Sun Bicycles | 23 |
| 3 | Surly | 25 |
| 4 | Trek | 135 |

3. il prezzo massimo dei prodotti di ogni brand

```
select brand_name, max(list_price) as PrezzoMassimo from
production.products
inner join production.brands
on production.brands.brand_id = production.products.brand_id
group by brands.brand_name
```

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

4. il prezzo medio dei prodotti di ogni brand

```
select brand_name, avg(list_price) as PrezzoMedio from
production.products
inner join production.brands
on production.brands.brand_id = production.products.brand_id
group by brands.brand_name
```

| | brand_name | PrezzoMedio |
|---|--------------|-------------|
| 1 | Electra | 761.006186 |
| 2 | Haro | 621.990000 |
| 3 | Heller | 2172.996666 |
| 4 | Pure Cycles | 442.333333 |
| 5 | Ritchey | 749.990000 |
| 6 | Strider | 209.990000 |
| 7 | Sun Bicycles | 524.468260 |
| 8 | Surly | 1331.753600 |
| 9 | Trek | 2500.064074 |

5. il brand del prodotto che costa di più

```
select brand_name as BrandPiuCostoso, list_price as prezzo
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)
```

| Risultati | | | Messaggi | | |
|-----------|-----------------|----------|----------|--|--|
| | BrandPiuCostoso | prezzo | | | |
| 1 | Trek | 11999.99 | | | |

6. la categoria del prodotto che costa di meno

```
select category_name, product_name, list_price
from production.products
inner join production.categories
on production.products.category_id =
production.categories.category_id
where list_price =
(select min(list_price) from production.products)
```

| Risultati | | | | Messaggi | | | |
|-----------|-------------------|--|------------|----------|--|--|--|
| | category_name | product_name | list_price | | | | |
| 1 | Children Bicycles | Strider Classic 12 Balance Bike - 2018 | 89.99 | | | | |

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.products.category_id =
production.categories.category_id
where list_price >
(select avg(list_price) from production.products)
```

| Risultati | | Messaggi | |
|-----------|---|------------|---------------------|
| | 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 |
| 13 | Trek Domane SL 6 - 2017 | Trek | Road Bikes |
| 14 | Trek Silque SLR 7 Women's - 2017 | Trek | Road Bikes |
| 15 | Trek Silque SLR 8 Women's - 2017 | Trek | Road Bikes |
| 16 | Trek Domane SL Disc Frameset - 2017 | Trek | Road Bikes |
| 17 | Trek Domane S 6 - 2017 | Trek | Road Bikes |
| 18 | Trek Domane SLR 6 Disc - 2017 | Trek | Road Bikes |
| 19 | Trek Emonda S 5 - 2017 | Trek | Road Bikes |

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

```
select customer_id, first_name, last_name, phone
from sales.customers
where sales.customers.phone is null
```

| Risultati | | Messaggi | | |
|-----------|-------------|------------|-----------|-------|
| | customer_id | first_name | last_name | phone |
| 1 | 1 | Debra | Burks | NULL |
| 2 | 2 | Kasha | Todd | NULL |
| 3 | 3 | Tameka | Fisher | NULL |
| 4 | 4 | Daryl | Spence | NULL |
| 5 | 6 | Lyndsey | Bean | NULL |
| 6 | 8 | Jacqueline | Duncan | NULL |
| 7 | 9 | Genoveva | Baldwin | NULL |
| 8 | 10 | Pamelia | Newman | NULL |
| 9 | 11 | Deshawn | Mendoza | NULL |
| 10 | 13 | Lashawn | Ortiz | NULL |
| 11 | 14 | Garry | Espinoza | NULL |
| 12 | 15 | Linnie | Branch | NULL |
| 13 | 17 | Caren | Stephens | NULL |
| 14 | 18 | Georgetta | Hardin | NULL |
| 15 | 19 | Lizzette | Stein | NULL |
| 16 | 20 | Aleta | Shepard | NULL |
| 17 | 21 | Tobie | Little | NULL |
| 18 | 22 | Adelle | Larsen | NULL |
| 19 | 23 | Kaylee | English | NULL |

9. il brand con più prodotti

```
select brand_name, count(*) as NumeroProdotti
from production.products
inner join production.brands
on production.products.brand_id = production.brands.brand_id
group by brand_name
having count(*)=(
select max(NumeroProdotti) from
(select brand_name, count(*) as NumeroProdotti 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 | NumeroProdotti | | | |
| 1 | Trek | 135 | | | |