# BIKE STORE SQL PROJECT

1. Can you retrieve the first name, last name, and email of all customers from New York?

```sql
SELECT first_name, last_name, email
FROM Customers
WHERE State = 'NY';
```

| first_name | last_name | email |
|---|---|---|
| Debra | Burks | debra.burks@yahoo.com |
| Daryl | Spence | daryl.spence@aol.com |
| Lyndsey | Bean | lyndsey.bean@hotmail.com |
| Latasha | Hays | latasha.hays@hotmail.com |
| Jacquline | Duncan | jacquline.duncan@yahoo.com |
| Genoveva | Baldwin | genoveva.baldwin@msn.com |
| Pamelia | Newman | pamelia.newman@gmail.com |
| Deshawn | Mendoza | deshawn.mendoza@yahoo.com |
| Robby | Sykes | robby.sykes@hotmail.com |
| Linnie | Branch | linnie.branch@gmail.com |
| Emmitt | Sanchez | emmitt.sanchez@hotmail.com |
| Caren | Stephens | caren.stephens@msn.com |
| Georgetta | Hardin | georgetta.hardin@aol.com |
| Lizzette | Stein | lizzette.stein@yahoo.com |
| Adelle | Larsen | adelle.larsen@gmail.com |
| Kaylee | English | kaylee.english@msn.com |
| Regenia | Vaughan | regenia.vaughan@gmail.com |
| Theo | Reese | theo.reese@gmail.com |
| Santos | Valencia | santos.valencia@yahoo.com |
| Jeanice | Frost | jeanice.frost@hotmail.com |
| Syreeta | Hendricks | syreeta.hendricks@msn.com |
| Brittney | Woodward | brittney.woodward@aol.com |
| Guillermina | Noble | guillermina.noble@msn.com |

2. What are the names of all products that have a list price over $1000, ordered from most expensive to least expensive?

```sql
SELECT product_name, list_price
FROM Products
WHERE List_price > 1000
ORDER BY list_price DESC;
```
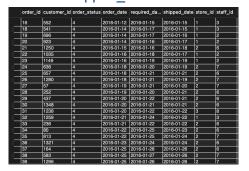
| product_name | list_price |
|---|---|
| Trek Domane SLR 9 D... | 7499.99 |
| Trek Silque SLR 8 Wo... | 6499.99 |
| Trek Domane SL Fram... | 6499.99 |
| Trek Domane SL Fram... | 6499.99 |
| Trek Emonda SLR 8 - 2... | 6499.99 |
| Trek Silque SLR 7 Wo... | 5999.99 |
| Trek Domane SLR 6 Di... | 5499.99 |
| Trek Domane SL 8 Disc... | 5499.99 |
| Trek Domane SLR 6 Di... | 5499.99 |
| Trek Domane SLR 6 Di... | 5499.99 |
| Trek Fuel EX 9.8 27.5 P... | 5299.99 |
| Trek Remedy 9.8 - 2017 | 5299.99 |
| Trek Fuel EX 9.8 29 - 2... | 4999.99 |
| Trek Madone 9.2 - 2017 | 4999.99 |
| Trek Powerfly 8 FS Plu... | 4999.99 |
| Trek Remedy 9.8 27.5 -... | 4999.99 |
| Trek Domane SLR 6 - 2... | 4999.99 |
| Trek Domane SL 7 Wo... | 4999.99 |
| Trek Powerfly 7 FS - 2018 | 4999.99 |
| Trek Super Commuter+... | 4999.99 |
| Trek Emonda SL 7 - 2018 | 4499.99 |
| Trek Emonda SLR 6 - 2... | 4499.99 |
| Trek CrossRip+ - 2018 | 4499.99 |
| Trek Powerfly 5 FS - 2018 | 4499.99 |

3. Could you list all orders that were shipped on or after January 15th, 2016?

```sql
SELECT *
FROM Orders
WHERE shipped_date >= '2016-01-15';
```

| order_id | customer_id | order_status | order_date | required_da... | shipped_date | store_id | staff_id |
|---|---|---|---|---|---|---|---|
| 16 | 552 | 4 | 2016-01-12 | 2016-01-15 | 2016-01-15 | 1 | 3 |
| 18 | 541 | 4 | 2016-01-14 | 2016-01-17 | 2016-01-15 | 1 | 3 |
| 19 | 696 | 4 | 2016-01-14 | 2016-01-17 | 2016-01-16 | 1 | 2 |
| 20 | 923 | 4 | 2016-01-14 | 2016-01-16 | 2016-01-17 | 1 | 2 |
| 21 | 1250 | 4 | 2016-01-15 | 2016-01-16 | 2016-01-18 | 2 | 6 |
| 22 | 1035 | 4 | 2016-01-16 | 2016-01-18 | 2016-01-17 | 1 | 2 |
| 23 | 1149 | 4 | 2016-01-16 | 2016-01-19 | 2016-01-19 | 1 | 2 |
| 24 | 636 | 4 | 2016-01-18 | 2016-01-20 | 2016-01-19 | 2 | 7 |
| 25 | 657 | 4 | 2016-01-18 | 2016-01-21 | 2016-01-21 | 2 | 6 |
| 26 | 1280 | 4 | 2016-01-18 | 2016-01-21 | 2016-01-19 | 2 | 7 |
| 27 | 57 | 4 | 2016-01-19 | 2016-01-21 | 2016-01-20 | 2 | 7 |
| 28 | 252 | 4 | 2016-01-19 | 2016-01-20 | 2016-01-21 | 2 | 6 |
| 29 | 437 | 4 | 2016-01-20 | 2016-01-22 | 2016-01-21 | 2 | 6 |
| 30 | 1348 | 4 | 2016-01-20 | 2016-01-21 | 2016-01-22 | 2 | 6 |
| 31 | 1238 | 4 | 2016-01-20 | 2016-01-22 | 2016-01-22 | 3 | 8 |
| 32 | 1259 | 4 | 2016-01-21 | 2016-01-24 | 2016-01-22 | 1 | 3 |
| 33 | 236 | 4 | 2016-01-21 | 2016-01-22 | 2016-01-22 | 2 | 6 |
| 34 | 80 | 4 | 2016-01-22 | 2016-01-25 | 2016-01-23 | 2 | 6 |
| 35 | 813 | 4 | 2016-01-22 | 2016-01-24 | 2016-01-24 | 2 | 7 |
| 36 | 1321 | 4 | 2016-01-23 | 2016-01-24 | 2016-01-24 | 2 | 6 |
| 37 | 164 | 4 | 2016-01-25 | 2016-01-28 | 2016-01-26 | 2 | 6 |
| 38 | 583 | 4 | 2016-01-25 | 2016-01-27 | 2016-01-26 | 2 | 7 |
| 39 | 1296 | 4 | 2016-01-25 | 2016-01-26 | 2016-01-26 | 2 | 7 |

4. Which staff members are currently active, and at which store do they work?
SELECT St.first_name, last_name, S.store_name
FROM Staffs St
INNER JOIN Stores S
on St.store_id = S.store_id
WHERE St.active = 1;

| first_name | last_name | store_name |
| --- | --- | --- |
| Fabiola | Jackson | Santa Cruz Bikes |
| Mireya | Copeland | Santa Cruz Bikes |
| Genna | Serrano | Santa Cruz Bikes |
| Virgie | Wiggins | Santa Cruz Bikes |
| Jannette | David | Baldwin Bikes |
| Marcelene | Boyer | Baldwin Bikes |
| Venita | Daniel | Baldwin Bikes |
| Kali | Vargas | Rowlett Bikes |
| Layla | Terrell | Rowlett Bikes |
| Bernardine | Houston | Rowlett Bikes |

5. What are the names of all bicycle brands available in the stores?
SELECT brand_name
FROM Brands;

| brand_name |
| --- |
| Electra |
| Haro |
| Heller |
| Pure Cycles |
| Ritchey |
| Strider |
| Sun Bicycles |
| Surly |
| Trek |

6. How many products are there in each product category?
SELECT c.category_name, COUNT(p.product_id) AS product_count
FROM Categories c
Join Products p
ON c.category_id = p.category_id
GROUP BY c.category_name;

| category_name | product_count |
| --- | --- |
| Children Bicycles | 59 |
| Comfort Bicycles | 30 |
| Cruisers Bicycles | 78 |
| Cyclocross Bicycles | 10 |
| Electric Bikes | 24 |
| Mountain Bikes | 60 |
| Road Bikes | 60 |

7. Which store has the highest number of staff members?
SELECT st.store_name, COUNT(s.staff_id) AS No_staff
FROM Stores st
JOIN staffs s
ON st.store_id = s.store_id
GROUP BY st.store_name
ORDER BY No_staff DESC
LIMIT 1;

| store_name | No_staff | |
|---|---|---|
| Santa Cruz Bikes | 4 | |

8. Can you find the total revenue for each brand, considering the quantity, list price, and discount?
SELECT b.brand_name, SUM(o.quantity * o.list_price * (1 - o.discount)) AS total_revenue
FROM Brands b
JOIN Products p
on b.brand_id = p.brand_id
JOIN order_items o
on o.product_id = p.product_id
GROUP BY b.brand_name;

| brand_name | total_revenue | |
|---|---|---|
| Electra | 1205320.8196 | |
| Haro | 185384.5537 | |
| Heller | 171459.0757 | |
| Pure Cycles | 149476.3400 | |
| Ritchey | 78898.9480 | |
| Strider | 4320.4789 | |
| Sun Bicycles | 341994.9275 | |
| Surly | 949507.0633 | |
| Trek | 4602754.3509 | |

9. Which customers have placed more than 5 orders?
SELECT c.first_name, c.last_name, COUNT(o.order_id) AS Total_order
FROM Customers c
JOIN Orders o
ON c.customer_id = o.customer_id
GROUP BY c.customer_id
HAVING COUNT(o.order_id) > 5;

10. What is the name of the most expensive product?
SELECT product_name
FROM Products
WHERE list_price = (SELECT MAX(list_price) FROM products);

| product_name | |
|---|---|
| Trek Domane SLR 9 Di... | |

11. Could you list the products that have never been ordered?
SELECT product_name
FROM Products p
JOIN Order_items oi
ON p.product_id = oi.product_id
WHERE oi.order_id IS NULL;

12. List all products that are out of stock in the 'Santa Cruz Bikes' store?
SELECT p.product_name
FROM Products p
JOIN Stocks s
ON p.product_id = s.product_id
JOIN Stores st
on st.store_id = s.store_id
WHERE st.store_name = 'Santa Cruz Bikes' AND s.quantity = 0;

| product_name | |
|---|---|
| Surly Ice Cream Truck Frameset - 2016 | |
| Trek Remedy 29 Carbon Frameset - 2016 | |
| Trek Farley Alloy Frameset - 2017 | |
| Trek Fuel EX 5 27.5 Plus - 2017 | |
| Haro Shredder 20 - 2017 | |
| Trek Emonda SLR 6 - 2018 | |
| Surly Pack Rat - 2018 | |
| Surly Straggler - 2018 | |
| Electra Townie Original 3i EQ Ladies' - 2018 | |
| Electra Townie Original 1 - 2018 | |

13. Find the average discount given on all orders?
SELECT AVG(discount) AS avg_discount
FROM Order_items;

| avg_discount | |
|---|---|
| 0.105373 | |

14. List the staff members who manage at least one other staff member?
SELECT DISTINCT m.first_name, m.last_name
FROM staffs e
JOIN staffs m
on e.staff_id = m.manager_id;

| first_name | last_name | |
|---|---|---|
| Mireya | Copeland | |
| Genna | Serrano | |
| Virgie | Wiggins | |
| Jannette | David | |
| Marcelene | Boyer | |
| Venita | Daniel | |
| Kali | Vargas | |
| Layla | Terrell | |
| Bernardine | Houston | |

15. Find the total number of bikes sold for each brand?
SELECT b.brand_name, SUM(oi.quantity) AS total_sales
FROM Brands b
JOIN Products p
ON b.brand_id = p.brand_id
JOIN Order_items oi
on oi.product_id = p.product_id
GROUP BY b.brand_name;

| brand_name | total_sales | |
|---|---|---|
| Electra | 2612 | |
| Haro | 331 | |
| Heller | 138 | |
| Pure Cycles | 376 | |
| Ritchey | 118 | |
| Strider | 25 | |
| Sun Bicycles | 731 | |
| Surly | 908 | |
| Trek | 1839 | |

—- END OF THE PROJECT —-