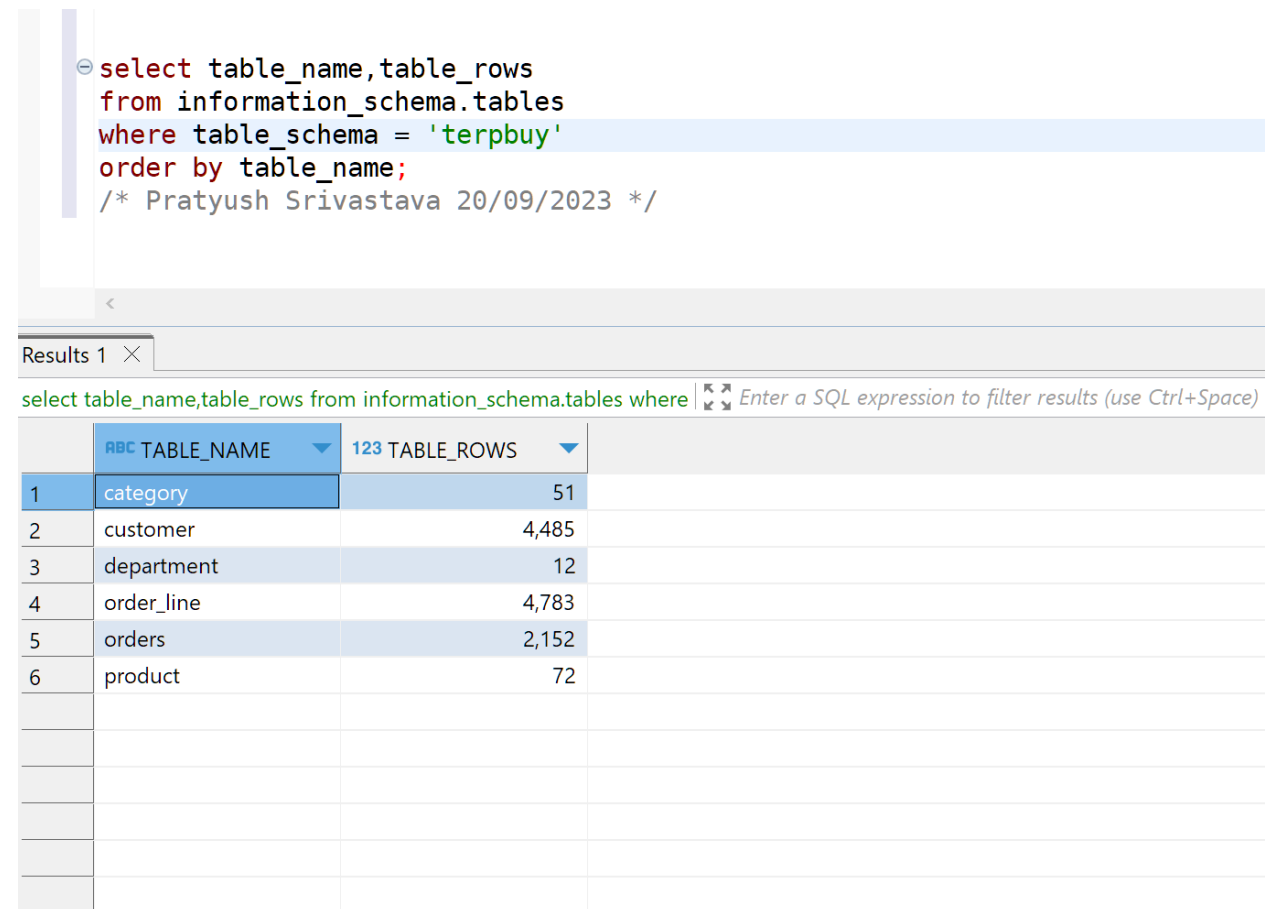


Part 1 - SQL Queries

Query #1

```
select table_name,table_rows
from information_schema.tables
where table_schema = 'terpbuy'
order by table_name;
```



The screenshot shows a SQL IDE interface. At the top, a query is entered in a text area: `select table_name,table_rows from information_schema.tables where table_schema = 'terpbuy' order by table_name;`. Below the query, a comment reads `/* Pratyush Srivastava 20/09/2023 */`. The results are displayed in a table with two columns: **TABLE_NAME** and **TABLE_ROWS**. The table contains six rows of data, sorted by table name. The first row is **category** with 51 rows. The second row is **customer** with 4,485 rows. The third row is **department** with 12 rows. The fourth row is **order_line** with 4,783 rows. The fifth row is **orders** with 2,152 rows. The sixth row is **product** with 72 rows.

	TABLE_NAME	TABLE_ROWS
1	category	51
2	customer	4,485
3	department	12
4	order_line	4,783
5	orders	2,152
6	product	72

Query #2

```
select product_name,product_price
from product where product_price > 100.00;
```

```
select product_name,product_price from product where product_price > 100.00;
/* Pratyush Srivastava 20/09/2023 */
```

product 1 X

select product_name,product_price from product where product_price > 100.00 Enter a SQL expression to filter results (use Ctrl+Space)

	ABC product_name	123 product_price
1	Nike Mens CJ Elite 2 TD Football Cleat	129.99
2	Diamondback Womens Serene Classic Comfort Bi	299.98
3	Field & Stream Sportsman 16 Gun Fire Safe	399.98
4	Pelican Sunstream 100 Kayak	199.99
5	Web Camera	452.04
6	Childrens heaters	357.1
7	Dell Laptop	1,500
8	Industrial CONSUMER electronics	252.88
9	Porcelain crafts	461.48
10	DVDs	164.38
11	Lawn mower	532.58
12	First aid kit	293.04
13	Mens gala suit	210.85
14	Rock music	260.65
15	Smart watch	327.75
16	Summer dresses	215.82

Query #3

```
select customer.first_name,customer.last_name,customer.city,customer.segment,
orders.order_id , orders.order_date
from customer
inner join orders
on customer.customer_id = orders.customer_id
where state = 'FL';
```

```

select customer.first_name,customer.last_name,customer.city,customer.segment, orders.order_id , orders.order_date
from customer
inner join orders
on customer.customer_id = orders.customer_id
where state = 'FL';
/* Pratyush Srivastava 20/09/2023 */

```

	first_name	last_name	city	segment	order_id	order_date
1	Laura	Smith	Winter Park	CORPORATE	20,366	2018-10-24
2	Linda	Murray	Pompano Beach	CORPORATE	20,428	2018-10-25
3	Mary	Smith	Tallahassee	CORPORATE	20,492	2018-10-26
4	Mary	Morrison	Brandon	HOME_OFFICE	20,745	2018-10-29
5	Jose	Smith	Miami	CORPORATE	20,877	2018-10-31
6	Patricia	Smith	Fort Lauderdale	CORPORATE	21,239	2018-11-06
7	Mary	Harris	Miami	CORPORATE	21,278	2018-11-06
8	Mary	Weaver	Miami	CONSUMER	22,082	2018-11-18
9	Mary	Holmes	Pompano Beach	CONSUMER	22,188	2018-11-19
10	James	Trevino	Miami	CONSUMER	22,219	2018-11-20
11	Katherine	Rogers	Hollywood	CONSUMER	22,337	2018-11-22
12	Mary	Shah	Winter Park	HOME_OFFICE	22,999	2018-12-01
13	Mary	Smith	Hollywood	CONSUMER	23,000	2018-12-01
14	Michael	Holloway	Fort Lauderdale	HOME_OFFICE	23,072	2018-12-02
15	Rose	Case	Brandon	CONSUMER	23,244	2018-12-05
16	Mary	Smith	Hialeah	CORPORATE	23,300	2018-12-06
17	Mary	Smith	Miami	CORPORATE	23,466	2018-12-08
18	Raymond	Smith	Lutz	CONSUMER	23,579	2018-12-10

69 row(s) fetched - 6ms (1ms fetch), on 2023-09-20 at 15:21:34

Query #4

```

select p.product_name, c.category_name, d.department_name, p.product_price from product p
inner join category c
on p.category_id = c.category_id
inner join department d
on p.department_id = d.department_id
where c.category_name in ('Computers','Toys','Tennis & Racquet');

```

```

select p.product_name, c.category_name, d.department_name, p.product_price from product p
inner join category c
on p.category_id = c.category_id
inner join department d
on p.department_id = d.department_id
where c.category_name in ('Computers', 'Toys', 'Tennis & Racquet');
/* Pratyush Srivastava 20/09/2023 */

```

	ABC product_name	ABC category_name	ABC department_name	123 product_price
1	Nike Mens Comfort 2 Slide	Tennis & Racquet	Fitness	44.99
2	Dell Laptop	Computers	Technology	1,500
3	Toys	Toys	Fan Shop	11.54

Query #5

```

select p.product_name,c.category_name,d.department_name
from product p
inner join category c
    on p.category_id = c.category_id
inner join department d
    on p.department_id = d.department_id
where product_id in (
    select distinct product_id from orders o
    inner join order_line ol on o.order_id = ol.order_id
    where order_status != 'COMPLETE'
);

```

```

select p.product_name,c.category_name,d.department_name
from product p
inner join category c
on p.category_id = c.category_id
inner join department d
on p.department_id = d.department_id
where product_id in (
select distinct product_id from orders o
inner join order_line ol on o.order_id = ol.order_id
where order_status != 'COMPLETE'
);
/* Pratyush Srivastava 20/09/2023 */

```

product(+) 1 X

select p.product_name,c.category_name,d.department_name from pr Enter a SQL expression to filter results (use Ctrl+Space)

	ABC product_name	ABC category_name	ABC department_name	
1	Field & Stream Sportsman 16 Gun Fire Safe	Fishing	Fan Shop	
2	Nike Mens Dri-FIT Victory Golf Polo	Womens Apparel	Golf	
3	Nike Mens Free 5.0+ Running Shoe	Cardio Equipment	Footwear	
4	Perfect Fitness Perfect Rip Deck	Cleats	Apparel	
5	Under Armour Girls Toddler Spine Surge Runni	Shop By Sport	Golf	
6	Nike Mens CJ Elite 2 TD Football Cleat	Mens Footwear	Apparel	
7	Titleist Pro V1x High Numbers Golf Balls	Electronics	Outdoors	
8	Diamondback Womens Serene Classic Comfort Bi	Camping & Hiking	Fan Shop	
9	OBrien Mens Neoprene Life Vest	Indoor/Outdoor Games	Fan Shop	
10	Nike Dri-FIT Crew Sock 6 Pack	Hockey	Fitness	
11	Glove It Womens Mod Oval Golf Glove	Golf Balls	Outdoors	
12	Hirzl Womens Soffft Flex Golf Glove	Golf Balls	Outdoors	
13	Pelican Sunstream 100 Kayak	Water Sports	Fan Shop	
14	Under Armour Hustle Storm Medium Duffle Bag	Fitness Accessories	Footwear	
15	Under Armour Womens Ignite PIP VI Slide	Electronics	Footwear	
16	Under Armour Womens Micro G Skulpt Running S	Boxing & MMA	Footwear	
17	Team Golf New England Patriots Putter Grip	Accessories	Outdoors	
18	Hirzl Mens Hybrid Golf Glove	Golf Balls	Outdoors	

Refresh Save Cancel Export data 200 72 72 row(s) fetched - 7ms, on 2023-09-20 at 15:23:22

Query #6

```

select o.order_city, count(distinct ol.order_line_id) as count_orders
from orders o
inner join order_line ol on o.order_id = ol.order_id
where order_status = 'COMPLETE' and scheduled_shipping_days < actual_shipping_days
group by o.order_city
order by 2 desc;

```

```

select o.order_city, count(distinct ol.order_line_id) as count_orders
from orders o
inner join order_line ol on o.order_id = ol.order_id
where order_status = 'COMPLETE' and scheduled_shipping_days < actual_shipping_days
group by o.order_city
order by 2 desc;
/* Pratyush Srivastava 20/09/2023 */

```

orders 1 X

select o.order_city, count(distinct ol.order_line_id) as count_orders from

	order_city	count_orders
1	Mumbai	34
2	Pune	33
3	Hyderabad	30
4	Chennai	29
5	Bangalore	28
6	Delhi	24
7	Vadodara	21
8	Ludhiana	20
9	Hubli	19
10	Jaipur	19
11	Durgapur	18
12	Gorakhpur	18
13	Raipur	18
14	Surat	18
15	Visakhapatnam	18
16	Moradabad	17
17	Bilaspur	15
18	Solapur	15

Refresh Save Cancel Export data 200 119 119 row(s) fetched - 2ms, on 2023-09-20 at 15:24:25

Query #7

```

select segment, count(customer_id) as "No. of customers"
from customer
group by segment
order by count(customer_id) desc;


```

```

select segment, count(customer_id) as "No. of customers"
from customer
group by segment
order by count(customer_id) desc;
/* Pratyush Srivastava 20/09/2023 */

```

customer 1 ✕

'select segment, count(customer_id) as "No. of customers" from custo |  Enter a SQL expression to filter results (use Ctrl+Space)

	ABC segment ▼	123 No. of customers ▼	
1	CONSUMER	2,312	
2	CORPORATE	1,312	
3	HOME_OFFICE	837	

Query #8

```

select count(order_id) as "No. of orders placed"
from orders
where extract(year from order_date) = '2021' and extract(quarter from order_date) = 1;

```

```
select count(order_id) as "No. of orders placed"
from orders
where extract(year from order_date) = '2021' and extract(quarter from order_date) = 1;
/* Pratyush Srivastava 20/09/2023 */
```

Results 1

select count(order_id) as "No. of orders placed" from orders where e: Enter a SQL expression to filter results (use Ctrl+Space)

	123 No. of orders placed
1	362

Refresh Save Cancel Export data 200 1 1 row(s) fetched - 1ms, on 2023-09-20 at 15:35:58

Query #9

```
select state,count(distinct segment) as segment_count
from customer c
group by state
having count(distinct segment)>1
order by state;
```



```

select state,count(distinct segment) as segment_count
from customer c
group by state
having count(distinct segment)>1
order by state;
/* Pratyush Srivastava 20/09/2023 */

```

customer 1 X

select state,count(distinct segment) as segment_count from customer | Enter a SQL expression to filter results (use Ctrl+Space)

	ABC state ▼	123 segment_count ▼
1	AR	2
2	AZ	3
3	CA	3
4	CO	3
5	CT	3
6	DC	3
7	DE	3
8	FL	3
9	GA	3
10	HI	3
11	IA	3
12	ID	2
13	IL	3
14	IN	3
15	KS	2
16	KY	3
17	LA	3
18	MA	3

Refresh ▼
 Save ▼
 Cancel

 Export data ▼

 200
 43

Query #10

```

select c.first_name , c.last_name , c.street , c.city , c.state , c.zipcode
from customer c
where segment = 'CORPORATE'
and c.customer_id not in (select customer_id from orders)
order by c.last_name, c.first_name;

```

```

select c.first_name , c.last_name , c.street , c.city , c.state , c.zipcode
from customer c
where segment = 'CORPORATE'
and c.customer_id not in (select customer_id from orders)
order by c.last_name, c.first_name;
/* Pratyush Srivastava 20/09/2023 */

```

customer 1 X

select c.first_name , c.last_name , c.street , c.city , c.state , c.zipcode fr Enter a SQL expression to filter results (use Ctrl+Space)

	first_name	last_name	street	city	state	zipcode	
1	BlueOneal		9279 Quaking Key	Caguas	PR	00725	
2	Peter	Acosta	1761 Noble Barn Heath	Caguas	PR	00725	
3	Eliana	Adams	7592 Heather Circuit	Detroit	MI	48221	
4	Ryan	Adkins	1855 Silver Manor	East Brunswick	NJ	08816	
5	Sarah	Adkins	2264 Silent Freeway	Salt Lake City	UT	84119	
6	Ethan	Alexander	4155 Bright Deer Line	La Crosse	WI	54601	
7	Gregory	Allen	1906 Amber Dale	Morristown	NJ	07960	
8	Aphrodite	Alvarez	6179 Silver Alley	Caguas	PR	00725	
9	Mary	Anderson	6395 Colonial Berry Ledge	Caguas	PR	00725	
10	Samantha	Anderson	6715 Blue Run	San Jose	CA	95124	
11	Mary	Andrews	2912 Hidden Acres	Laredo	TX	78040	
12	Judy	Arnold	3836 Stony Point	Caguas	PR	00725	
13	Reagan	Avila	8987 Foggy Hill	Wayne	NJ	07470	
14	Kerry	Ayala	409 Tawny Range	Brooklyn	NY	11236	
15	Kevyn	Ayala	5516 Lazy Oak Path	Caguas	PR	00725	
16	Andrea	Baird	7415 Cotton Fox Corners	San Diego	CA	92126	
17	Mary	Baker	1795 Dusty Hills Village	Santa Cruz	CA	95060	
18	John	Barker	2584 Round Square	Caguas	PR	00725	

Refresh Save Cancel Export data 200 200+ 200 row(s) fetched - 5ms (1ms fetch), on 2023-09-20 at 15:26:33

Query #11

```

select distinct c.first_name , c.last_name , c.street , c.state, c.zipcode , o.order_date
from order_line ol
inner join product p on ol.product_id = p.product_id
inner join orders o on o.order_id = ol.order_id
inner join customer c on o.customer_id = c.customer_id
where p.product_name = 'Nike Mens Free 5.0+ Running Shoe' and o.order_status =
'COMPLETE';

```

```

select distinct c.first_name , c.last_name , c.street , c.state, c.zipcode , o.order_date
from order_line ol
inner join product p on ol.product_id = p.product_id
inner join orders o on o.order_id = ol.order_id
inner join customer c on o.customer_id = c.customer_id
where p.product_name = 'Nike Mens Free 5.0+ Running Shoe' and o.order_status = 'COMPLETE';
/* Pratyush Srivastava 20/09/2023 */

```

customer(+) 1 X

select distinct c.first_name , c.last_name , c.street , c.state, c.zipcode , Enter a SQL expression to filter results (use Ctrl+Space)

	first_name	last_name	street	state	zipcode	order_date
1	Wayne	Hardy	4132 Broad Gate Lane	TX	75150	2018-10-24
2	Nicholas	Smith	603 Green Sky Promenade	LA	70072	2018-10-24
3	Louis	Bishop	5192 Foggy Elk Village	PR	00725	2018-10-24
4	Jonathan	Costa	849 Noble Apple Private	CA	91402	2018-10-25
5	Mary	Smith	5340 Quaking Panda Forest	FL	32308	2018-10-26
6	Dorothy	Hudson	4992 Jagged Forest Subdivision	IL	60613	2018-10-31
7	Mary	Watson	4853 Silent Mount	NC	27502	2018-11-06
8	Mary	Smith	9795 Shady Pond Cove	TX	77015	2018-11-08
9	Mary	Smith	7231 Red Farms	IL	60120	2018-11-16
10	Kathy	Smith	4271 Hazy Close	PR	00957	2018-11-18
11	Eugene	Smith	757 Dewy Apple Bend	CA	90063	2018-11-19
12	Evelyn	Vincent	4436 Old Villas	MO	63136	2018-11-24
13	Jessica	Parker	902 Little Falls	NY	11207	2018-11-25
14	Evelyn	Smith	7864 Jagged Nectar Isle	TX	78852	2018-11-25
15	Mary	Smith	7792 Rustic Park	NY	11221	2018-11-26
16	Mary	Smith	6727 Hazy Isle	OH	45014	2018-11-27
17	Mary	Gill	2458 Crystal Road	PR	00725	2018-11-27
18	Richard	Hernandez	6303 Heather Plaza	TX	78521	2018-11-30

Refresh Save Cancel Export data 200 85 85 row(s) fetched - 8ms (1ms fetch), on 2023-09-20 at 15:27:22

```

select distinct c.first_name , c.last_name , ol.total_price
from orders o
inner join order_line ol
on o.order_id = ol.order_id
inner join customer c
on o.customer_id = c.customer_id
inner join (select product_id,avg(total_price) as avg_price from order_line group by product_id) ol2
on ol.product_id = ol2.product_id
where ol.total_price > ol2.avg_price
/* Pratyush Srivastava 20/09/2023 */

```

customer(+) 1 X

select distinct c.first_name , c.last_name , ol.total_price from orders o Enter a SQL expression to filter results (use Ctrl+Space)

	RBC first_name	RBC last_name	123 total_price
1	Mary	Reynolds	399.96
2	Mary	Reynolds	239.96
3	Henry	Maldonado	159.96
4	Wayne	Hardy	499.95
5	Nicholas	Smith	299.97
6	Nicholas	Smith	99.95
7	Mary	Smith	249.9
8	Mary	Armstrong	159.96
9	Mary	Armstrong	239.96
10	Mary	Armstrong	99.95
11	Mary	Smith	399.96
12	Kathleen	Wilkinson	71.96
13	Kathleen	Wilkinson	299.95
14	Kathleen	Wilkinson	199.95
15	Jane	Smith	239.96
16	Jane	Smith	100
17	Mary	Smith	200
18	Mary	Lloyd	199.92

Refresh Save Cancel Export data 200 200+ 200 row(s) fetched - 4ms, on 2023-09-20 at 15:28:07