NAME-JATAN SAHU STUDENT ID - 202218061 LAB 5 -ASSIGNMENT

Query 1 - Pricing Summary Report

SELECT L_RETURNFLAG, L_LINESTATUS, SUM(L_QUANTITY) AS SUM_QTY,

SUM(L_EXTENDEDPRICE) AS SUM_BASE_PRICE,

SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT)) AS

SUM_DISC_PRICE,

SUM(L EXTENDEDPRICE*(1-L DISCOUNT)*(1+L TAX)) AS

SUM CHARGE,

AVG(L_QUANTITY) AS

AVG_QTY,

AVG(L_EXTENDEDPRICE) AS AVG_PRICE, AVG(L_DISCOUNT) AS

AVG_DISC, COUNT(*)

AS COUNT_ORDER

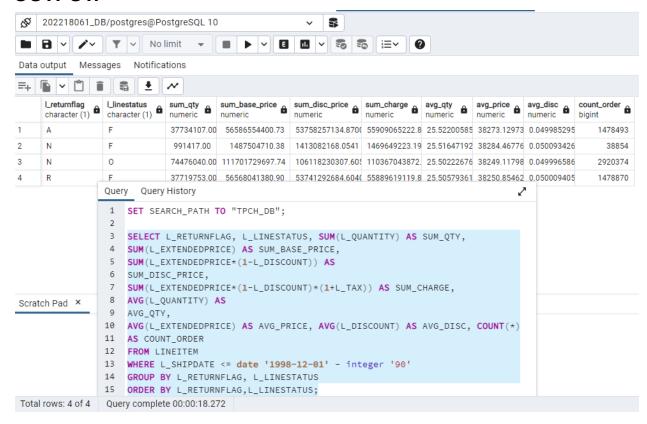
FROM LINEITEM

WHERE L_SHIPDATE <= date '1998-12-01' - integer '90'

GROUP BY L_RETURNFLAG, L_LINESTATUS

ORDER BY L_RETURNFLAG,L_LINESTATUS;

OUTPUT:



Query 2 - Minimum Cost Supplier

SELECT S_ACCTBAL, S_NAME, N_NAME, P_PARTKEY, P_MFGR, S_ADDRESS, S_PHONE,

S COMMENT

FROM PART, SUPPLIER, PARTSUPP, NATION, REGION WHERE P_PARTKEY = PS_PARTKEY AND S_SUPPKEY = PS_SUPPKEY AND P_SIZE = 15

AND

P_TYPE LIKE '%%BRASS' AND S_NATIONKEY = N_NATIONKEY AND N_REGIONKEY =

R_REGIONKEY AND

R_NAME = 'EUROPE' AND

PS_SUPPLYCOST = (SELECT MIN(PS_SUPPLYCOST) FROM PARTSUPP, SUPPLIER,

NATION, REGION

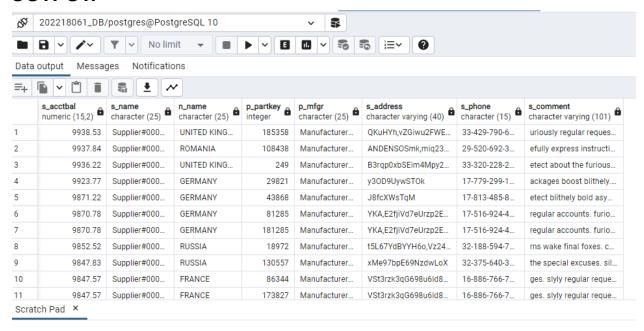
WHERE P_PARTKEY = PS_PARTKEY AND S_SUPPKEY = PS_SUPPKEY

AND S_NATIONKEY = N_NATIONKEY AND N_REGIONKEY = R_REGIONKEY AND R_NAME

= 'EUROPE')

ORDER BY S_ACCTBAL DESC, N_NAME, S_NAME, P_PARTKEY LIMIT 100;

OUTPUT:



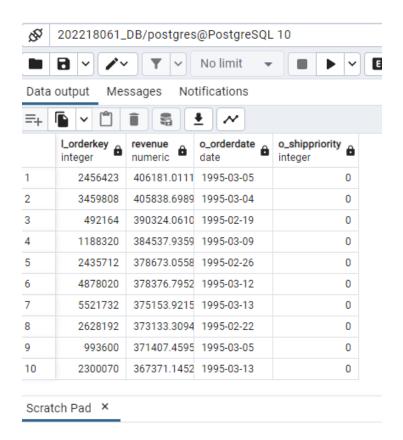
Total rows: 100 of 100 Query complete 00:00:02.169

Query 3 - Shipping Priority

SELECT L_ORDERKEY, SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT)) AS REVENUE, O_ORDERDATE, O_SHIPPRIORITY FROM CUSTOMER, ORDERS, LINEITEM WHERE C_MKTSEGMENT = 'BUILDING' AND C_CUSTKEY = O_CUSTKEY AND L_ORDERKEY = O_ORDERKEY AND

O_ORDERDATE < '1995-03-15' AND L_SHIPDATE > '1995-03-15' GROUP BY L_ORDERKEY, O_ORDERDATE, O_SHIPPRIORITY ORDER BY REVENUE DESC, O_ORDERDATE LIMIT 10;

OUTPUT:



Query 4 - Order Priority Checking

SELECT O_ORDERPRIORITY, COUNT(*) AS ORDER_COUNT FROM ORDERS

WHERE O ORDERDATE >= DATE '1993-07-01' AND

O ORDERDATE < DATE '1993-07-01' +

INTERVAL'3

MONTH'

AND EXISTS (SELECT * FROM LINEITEM WHERE L_ORDERKEY = O ORDERKEY AND

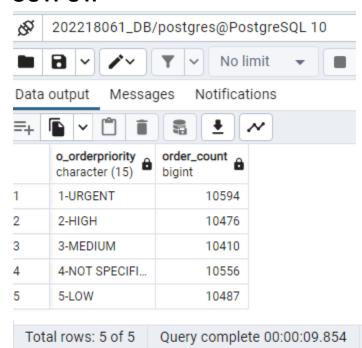
L COMMITDATE <

L RECEIPTDATE)

GROUP BY O ORDERPRIORITY

ORDER BY O ORDERPRIORITY;

OUTPUT:



Query 5 - Local Supplier Volume

SELECT N_NAME, SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT))
AS REVENUE

FROM CUSTOMER, ORDERS, LINEITEM, SUPPLIER, NATION, REGION

WHERE C_CUSTKEY = O_CUSTKEY AND L_ORDERKEY = O ORDERKEY AND

L SUPPKEY = S SUPPKEY

AND C_NATIONKEY = S_NATIONKEY AND S_NATIONKEY =

N NATIONKEY AND

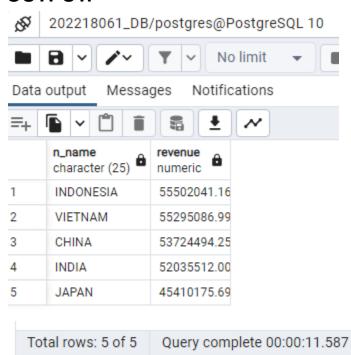
N REGIONKEY =

R REGIONKEY

AND R_NAME = 'ASIA' AND O_ORDERDATE >= DATE '1994-01-01' AND O_ORDERDATE < DATE '1994-01-01' + INTERVAL '1 YEAR' GROUP BY N NAME

ORDER BY REVENUE DESC;

OUTPUT:



Query 6 - Forecasting Revenue Change

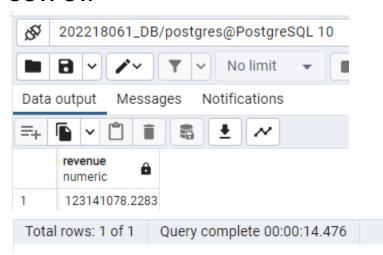
SELECT SUM(L_EXTENDEDPRICE*L_DISCOUNT) AS REVENUE FROM LINEITEM

WHERE L_SHIPDATE >= '1994-01-01' AND L_SHIPDATE <DATE '1994-01-01' + INTERVAL '1

YEAR'

AND L_DISCOUNT BETWEEN .06 - 0.01 AND .06 + 0.01 AND L QUANTITY < 24;

OUTPUT:



Query 7 - Volume Shipping

SELECT SUPP_NATION, CUST_NATION, L_YEAR, SUM(VOLUME) AS REVENUE

FROM (SELECT N1.N_NAME AS SUPP_NATION, N2.N_NAME AS CUST NATION,

DATE PART('year',

L_SHIPDATE) AS L_YEAR,

L EXTENDEDPRICE*(1-L DISCOUNT) AS VOLUME

FROM SUPPLIER, LINEITEM, ORDERS, CUSTOMER, NATION N1, NATION N2

WHERE S_SUPPKEY = L_SUPPKEY AND O_ORDERKEY = L ORDERKEY AND

C CUSTKEY = O CUSTKEY

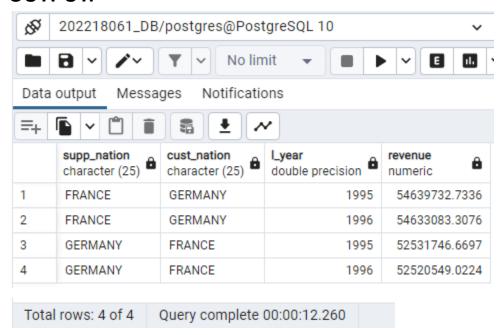
AND S_NATIONKEY = N1.N_NATIONKEY AND C_NATIONKEY = N2.N_NATIONKEY AND

((N1.N_NAME = 'FRANCE' AND N2.N_NAME = 'GERMANY') OR

(N1.N_NAME = 'GERMANY' AND N2.N_NAME = 'FRANCE')) AND L_SHIPDATE BETWEEN '1995-01-01' AND '1996-12-31') AS SHIPPING

GROUP BY SUPP_NATION, CUST_NATION, L_YEAR ORDER BY SUPP_NATION, CUST_NATION, L_YEAR;

OUTPUT:



Query 8 - National Market Share */

SELECT O_YEAR, SUM(CASE WHEN NATION = 'BRAZIL' THEN VOLUME ELSE 0

END)/SUM(VOLUME) AS

MKT SHARE

FROM (SELECT date_part('year',O_ORDERDATE) AS O_YEAR, L_EXTENDEDPRICE*(1-L_DISCOUNT) AS

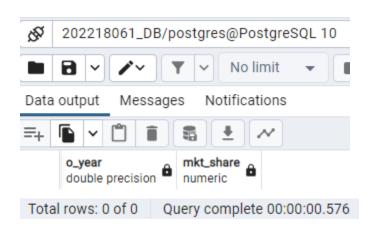
VOLUME, N2.N NAME AS NATION

FROM PART, SUPPLIER, LINEITEM, ORDERS, CUSTOMER, NATION N1, NATION N2,

REGION

WHERE P_PARTKEY = L_PARTKEY AND S_SUPPKEY =
L_SUPPKEY AND L_ORDERKEY =
O_ORDERKEY
AND O_CUSTKEY = C_CUSTKEY AND C_NATIONKEY =
N1.N_NATIONKEY AND
N1.N_REGIONKEY = R_REGIONKEY AND R_NAME = 'AMERICA'
AND S_NATIONKEY =
N2.N_NATIONKEY
AND O_ORDERDATE BETWEEN '1995-01-01' AND '1996-12-31'
AND P_TYPE= 'ECONOMY
ANODIZED

STEEL') AS ALL_NATIONS GROUP BY O_YEAR ORDER BY O_YEAR;

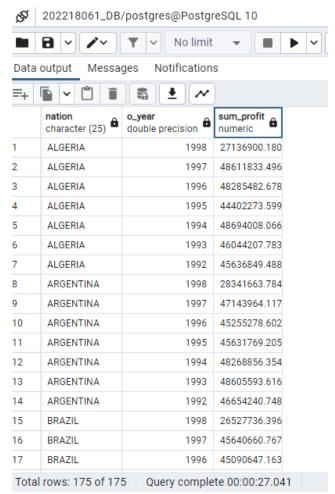


Query 9 - Product Type Profit Measure

SELECT NATION, O_YEAR, SUM(AMOUNT) AS SUM_PROFIT FROM (SELECT N_NAME AS NATION, date_part('year', O_ORDERDATE) AS O_YEAR, L_EXTENDEDPRICE*(1-L_DISCOUNT)-PS_SUPPLYCOST*L_QUAN TITY AS AMOUNT

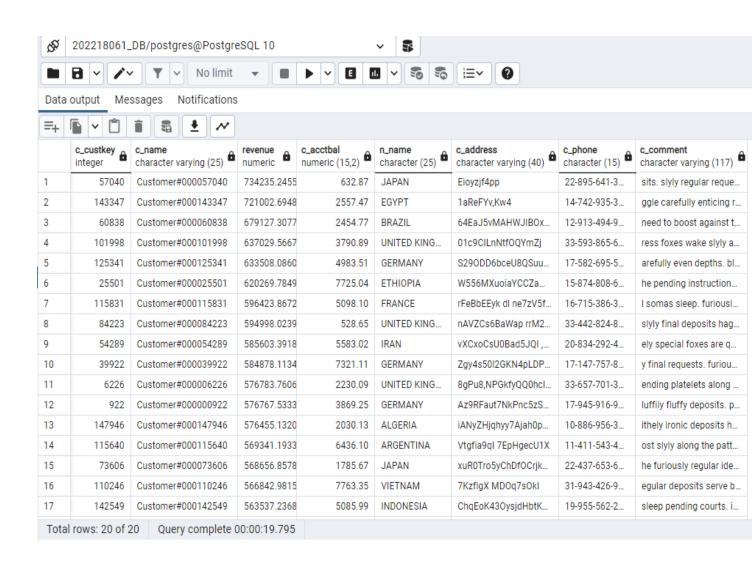
FROM PART, SUPPLIER, LINEITEM, PARTSUPP, ORDERS, NATION

WHERE S_SUPPKEY = L_SUPPKEY AND PS_SUPPKEY=
L_SUPPKEY AND PS_PARTKEY
= L_PARTKEY AND
P_PARTKEY= L_PARTKEY AND O_ORDERKEY = L_ORDERKEY
AND S_NATIONKEY =
N_NATIONKEY AND
P_NAME LIKE '%%green%%') AS PROFIT
GROUP BY NATION, O_YEAR
ORDER BY NATION, O_YEAR DESC;
OUTPUT:



Query 10 - Returned Item Reporting

SELECT C_CUSTKEY, C_NAME,
SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT)) AS
REVENUE, C_ACCTBAL,
N_NAME, C_ADDRESS, C_PHONE, C_COMMENT
FROM CUSTOMER, ORDERS, LINEITEM, NATION
WHERE C_CUSTKEY = O_CUSTKEY AND L_ORDERKEY =
O_ORDERKEY AND
O_ORDERDATE>= '1993-10-01' AND
O_ORDERDATE < DATE '1993-10-01' + INTERVAL '3 MONTH' AND
L_RETURNFLAG = 'R' AND C_NATIONKEY = N_NATIONKEY
GROUP BY C_CUSTKEY, C_NAME, C_ACCTBAL, C_PHONE,
N_NAME, C_ADDRESS,
C_COMMENT
ORDER BY REVENUE DESC



/* TPC_H Query 11 - Important Stock Identification */

SELECT PS_PARTKEY, SUM(PS_SUPPLYCOST*PS_AVAILQTY) AS VALUE

FROM PARTSUPP, SUPPLIER, NATION

WHERE PS_SUPPKEY = S_SUPPKEY AND S_NATIONKEY =

N_NATIONKEY AND N_NAME

= 'GERMANY'

GROUP BY PS PARTKEY

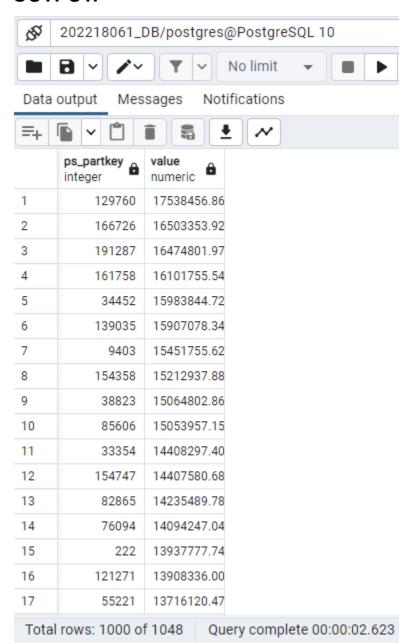
HAVING SUM(PS_SUPPLYCOST*PS_AVAILQTY) > (SELECT

SUM(PS SUPPLYCOST*PS AVAILQTY) *

0.0001000000

FROM PARTSUPP, SUPPLIER, NATION
WHERE PS_SUPPKEY = S_SUPPKEY AND S_NATIONKEY =
N_NATIONKEY AND N_NAME
= 'GERMANY')
ORDER BY VALUE DESC:

OUTPUT:



Query 12 - Shipping Modes and Order Priority

SELECT L SHIPMODE,

SUM(CASE WHEN O ORDERPRIORITY = '1-URGENT' OR

O ORDERPRIORITY = '2-HIGH'

THEN 1 ELSE 0

END) AS HIGH LINE COUNT,

SUM(CASE WHEN O_ORDERPRIORITY <> '1-URGENT' AND

O ORDERPRIORITY <>

'2-HIGH' THEN 1 ELSE 0

END) AS LOW_LINE_COUNT

FROM ORDERS, LINEITEM

WHERE O_ORDERKEY = L_ORDERKEY AND L_SHIPMODE IN ('MAIL','SHIP')

AND L_COMMITDATE < L_RECEIPTDATE AND L_SHIPDATE < L_COMMITDATE AND

L RECEIPTDATE >=

'1994-01-01'

AND L_RECEIPTDATE < DATE '1995-09-01' + INTERVAL '1 MONTH' GROUP BY L_SHIPMODE ORDER BY L_SHIPMODE;

OUTPUT:

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		▼ V No limi	t • 🔳 🕨			
Data	output Messa	ges Notification	าร			
	Lshipmode character (10)	high_line_count bigint	low_line_count bigint			
1	MAIL	10746	16275			
2	SHIP	10864	16192			

Query 13 - Customer Distribution

SELECT C COUNT, COUNT(*) AS CUSTDIST FROM (SELECT C_CUSTKEY, COUNT(O_ORDERKEY) FROM CUSTOMER left outer join ORDERS on C CUSTKEY = O CUSTKEY AND O COMMENT not like '%%special%%requests%%' GROUP BY C_CUSTKEY) AS C_ORDERS (C_CUSTKEY, C COUNT) GROUP BY C COUNT ORDER BY CUSTDIST DESC, C_COUNT DESC;

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	=+			<u>*</u> ~	
		c_count bigint	custdist bigint		
	1	0	50005		
	2	9	6641		
	3	10	6532		
	4	11	6014		
	5	8	5937		
	6	12	5639		
	7	13	5024		
	8	19	4793		
	9	7	4687		
	10	17	4587		
	11	18	4529		
	12	20	4516		
	13	15	4505		
	14	14	4446		
	15	16	4273		
	16	21	4190		
	17	22	3623		
OUTPUT :	Total	rows: 42 of 4	42 Query	complete 00:00:05.632	

/* TPC_H Query 14 - Promotion Effect */

SELECT 100.00* SUM(CASE WHEN P_TYPE LIKE 'PROMO%%' THEN

L EXTENDEDPRICE*(1-L DISCOUNT)

ELSE 0 END) / SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT)) AS PROMO REVENUE

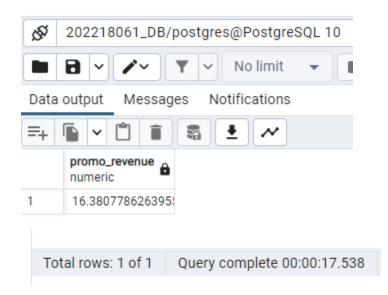
FROM LINEITEM, PART

WHERE L_PARTKEY = P_PARTKEY AND L_SHIPDATE >= '1995-09-01' AND L_SHIPDATE <

DATE '1995-09-

01' + INTERVAL '1 MONTH';

OUTPUT:



/* TPC_H Query 15 - Create View for Top Supplier Query */
CREATE VIEW REVENUE0 (SUPPLIER_NO, TOTAL_REVENUE) AS
SELECT L_SUPPKEY,
SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT)) FROM LINEITEM

WHERE L_SHIPDATE >= '1996-01-01' AND L_SHIPDATE < DATE '1996-01-01' + INTERVAL '3

MONTH'

GROUP BY L SUPPKEY;

SELECT S_SUPPKEY, S_NAME, S_ADDRESS, S_PHONE,

TOTAL REVENUE

FROM SUPPLIER, REVENUE0

WHERE S_SUPPKEY = SUPPLIER_NO AND TOTAL_REVENUE = (SELECT

MAX(TOTAL REVENUE) FROM

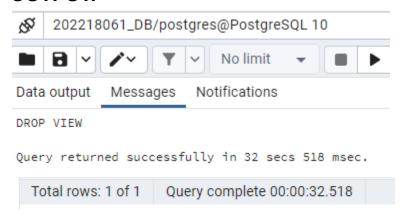
REVENUE0)

ORDER BY S SUPPKEY;

DROP VIEW REVENUE0;

OUTPUT:

'MEDIUM



/* TPC_H Query 16 - Parts/Supplier Relationship */

SELECT P_BRAND, P_TYPE, P_SIZE, COUNT(DISTINCT PS_SUPPKEY) AS SUPPLIER_CNT FROM PARTSUPP, PART WHERE P_PARTKEY = PS_PARTKEY AND P_BRAND <> 'Brand#45' AND P_TYPE NOT LIKE

POLISHED%%'
AND P_SIZE IN (49, 14, 23, 45, 19, 3, 36, 9) AND PS_SUPPKEY
NOT IN (SELECT
S_SUPPKEY FROM
SUPPLIER
WHERE S_COMMENT LIKE '%%Customer%%Complaints%%')
GROUP BY P_BRAND, P_TYPE, P_SIZE
ORDER BY SUPPLIER_CNT DESC, P_BRAND, P_TYPE, P_SIZE;

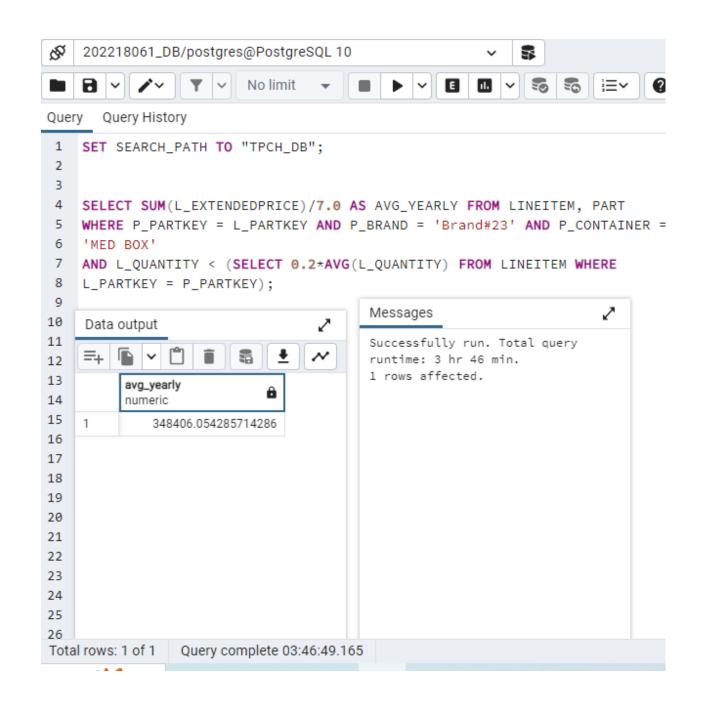
OUTPUT:

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		▼ ∨ No limit ▼		~ E 1. ~
Data o	output Messag	es Notifications		
= + ſ				
-+ '				
	p_brand character (10)	p_type character varying (25)	p_size integer	supplier_cnt bigint
1	Brand#41	MEDIUM BRUSHED TIN	3	28
2	Brand#54	STANDARD BRUSHED	14	27
3	Brand#11	STANDARD BRUSHED	23	24
4	Brand#11	STANDARD BURNISH	36	24
5	Brand#15	MEDIUM ANODIZED	3	24
6	Brand#15	SMALL ANODIZED BR	45	24
7	Brand#15	SMALL BURNISHED N	19	24
8	Brand#21	MEDIUM ANODIZED	3	24
9	Brand#22	SMALL BRUSHED NIC	3	24
10	Brand#22	SMALL BURNISHED B	19	24
11	Brand#25	MEDIUM BURNISHED	36	24
12	Brand#31	PROMO POLISHED C	36	24
13	Brand#33	LARGE POLISHED TIN	23	24
14	Brand#33	PROMO POLISHED S	14	24
15	Brand#35	PROMO BRUSHED NI	14	24
16	Brand#41	ECONOMY BRUSHED	9	24
17	Brand#41	ECONOMY POLISHED	19	24

/* TPC_H Query 17 - Small-Quantity-Order Revenue */

SELECT SUM(L_EXTENDEDPRICE)/7.0
AS AVG_YEARLY
FROM LINEITEM, PART
WHERE P_PARTKEY = L_PARTKEY AND P_BRAND = 'Brand#23'
AND P_CONTAINER =
'MED BOX'
AND L_QUANTITY < (SELECT 0.2*AVG(L_QUANTITY)
FROM LINEITEM
WHERE
L_PARTKEY = P_PARTKEY);

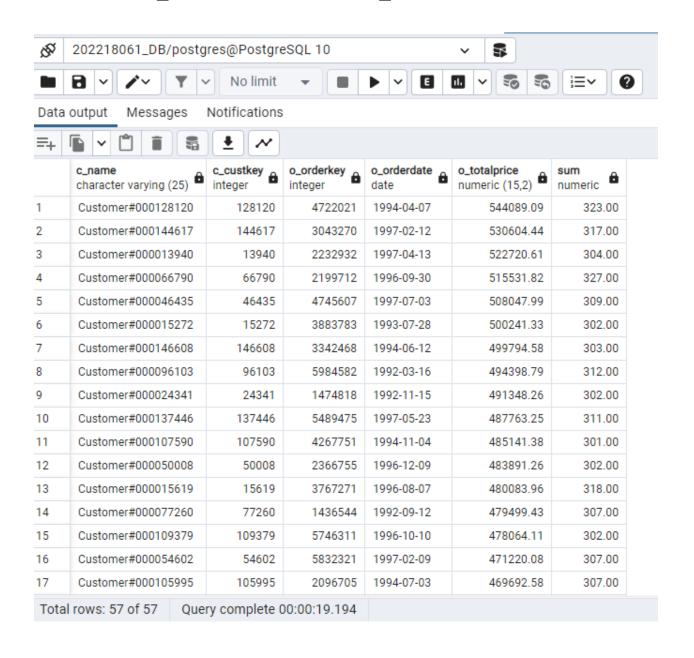
OUTPUT:



/* TPC_H Query 18 - Large Volume Customer */

SELECT C_NAME, C_CUSTKEY, O_ORDERKEY, O_ORDERDATE, O_TOTALPRICE, SUM(L_QUANTITY)
FROM CUSTOMER, ORDERS, LINEITEM
WHERE O_ORDERKEY IN (SELECT L_ORDERKEY FROM LINEITEM GROUP BY

L_ORDERKEY HAVING
SUM(L_QUANTITY) > 300) AND C_CUSTKEY = O_CUSTKEY AND
O_ORDERKEY =
L_ORDERKEY
GROUP BY C_NAME, C_CUSTKEY, O_ORDERKEY,
O_ORDERDATE, O_TOTALPRICE
ORDER BY O TOTALPRICE DESC, O ORDERDATE LIMIT 100;



```
/* TPC_H Query 19 - Discounted Revenue */
```

SELECT SUM(L_EXTENDEDPRICE* (1 - L_DISCOUNT)) AS REVENUE

FROM LINEITEM, PART

WHERE (P_PARTKEY = L_PARTKEY AND P_BRAND = 'Brand#12' AND P_CONTAINER IN

('SM CASE', 'SM

BOX', 'SM PACK', 'SM PKG') AND L_QUANTITY >= 1 AND

L QUANTITY <= 1 + 10 AND

P_SIZE BETWEEN 1

AND 5

AND L_SHIPMODE IN ('AIR', 'AIR REG') AND L_SHIPINSTRUCT = 'DELIVER IN PERSON')

OR (P_PARTKEY = L_PARTKEY AND P_BRAND ='Brand#23' AND P_CONTAINER IN ('MED

BAG', 'MED

BOX', 'MED PKG', 'MED PACK') AND L_QUANTITY >=10 AND L_QUANTITY <=10 + 10 AND

P_SIZE

BETWEEN 1 AND 10

AND L_SHIPMODE IN ('AIR', 'AIR REG') AND L_SHIPINSTRUCT = 'DELIVER IN PERSON')

OR (P_PARTKEY = L_PARTKEY AND P_BRAND = 'Brand#34' AND P_CONTAINER IN ('LG

CASE', 'LG BOX',

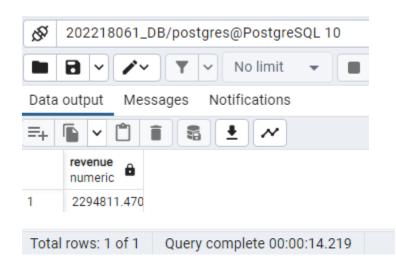
'LG PACK', 'LG PKG') AND L_QUANTITY >=20 AND L_QUANTITY <= 20 + 10 AND P_SIZE

BETWEEN 1 AND

15

AND L_SHIPMODE IN ('AIR', 'AIR REG') AND L_SHIPINSTRUCT = 'DELIVER IN PERSON');

OUTPUT:



/* TPC_H Query 20 - Potential Part Promotion */

SELECT S_NAME, S_ADDRESS FROM SUPPLIER, NATION WHERE S_SUPPKEY IN (SELECT PS_SUPPKEY FROM PARTSUPP

WHERE PS_PARTKEY in (SELECT P_PARTKEY FROM PART WHERE P_NAME like

'forest%%') AND

PS_AVAILQTY > (SELECT 0.5*sum(L_QUANTITY) FROM LINEITEM WHERE L_PARTKEY =

PS PARTKEY AND

L_SUPPKEY = PS_SUPPKEY AND L_SHIPDATE >= '1994-01-01'
AND

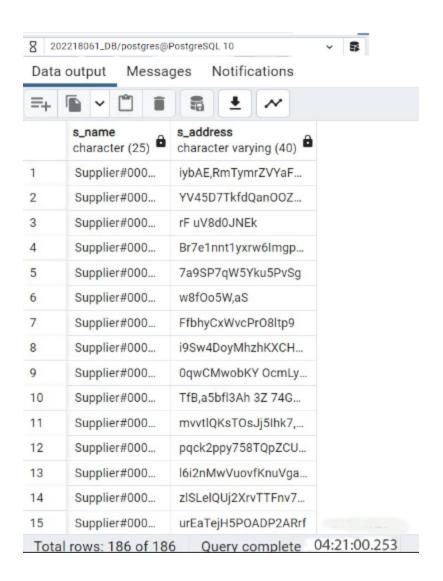
L_SHIPDATE < DATE '1994-01-01' + INTERVAL '1 YEAR')) AND

S_NATIONKEY =

N_NATIONKEY AND

N NAME = 'CANADA'

ORDER BY S_NAME;

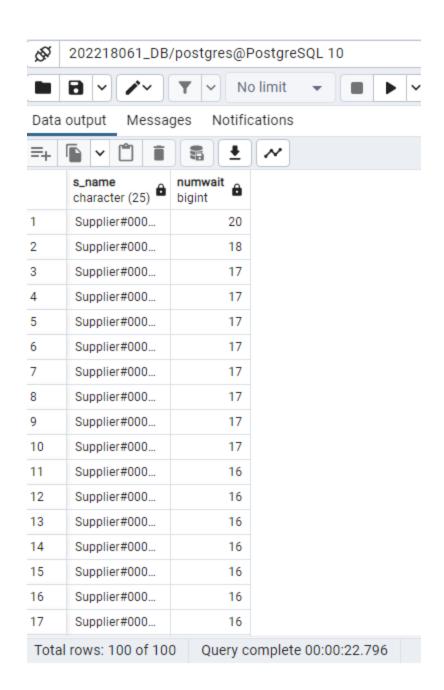


/* TPC_H Query 21 - Suppliers Who Kept Orders Waiting */
SELECT S_NAME, COUNT(*) AS NUMWAIT
FROM SUPPLIER, LINEITEM L1, ORDERS, NATION WHERE
S_SUPPKEY = L1.L_SUPPKEY
AND
O ORDERKEY = L1.L ORDERKEY AND O ORDERSTATUS

O_ORDERKEY = L1.L_ORDERKEY AND O_ORDERSTATUS = 'F'
AND L1.L_RECEIPTDATE>
L1.L_COMMITDATE
AND EXISTS (SELECT * FROM LINEITEM L2 WHERE
L2.L_ORDERKEY = L1.L_ORDERKEY
AND L2.L_SUPPKEY <> L1.L_SUPPKEY) AND

NOT EXISTS (SELECT * FROM LINEITEM L3 WHERE L3.L_ORDERKEY = L1.L_ORDERKEY
AND
L3.L_SUPPKEY <> L1.L_SUPPKEY AND L3.L_RECEIPTDATE >
L3.L_COMMITDATE) AND
S_NATIONKEY = N_NATIONKEY AND N_NAME = 'SAUDI ARABIA'
GROUP BY S_NAME
ORDER BY NUMWAIT DESC, S_NAME LIMIT 100;

OUTPUT:



/* TPC_H Query 22 - Global Sales Opportunity */

SELECT CNTRYCODE, COUNT(*) AS NUMCUST, SUM(C_ACCTBAL) AS TOTACCTBAL FROM (SELECT SUBSTRING(C_PHONE,1,2) AS CNTRYCODE, C_ACCTBAL FROM CUSTOMER WHERE SUBSTRING(C_PHONE,1,2) IN ('13',

'31', '23', '29', '30', '18', '17')

AND

C_ACCTBAL > (SELECT AVG(C_ACCTBAL) FROM CUSTOMER WHERE C_ACCTBAL >

0.00 AND

SUBSTRING(C_PHONE,1,2) IN ('13', '31', '23', '29', '30', '18', '17'))
AND

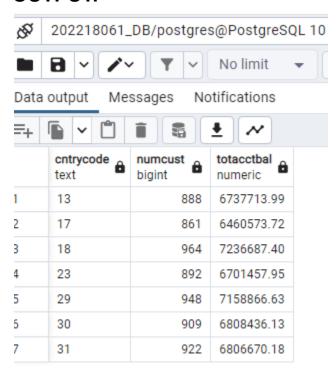
NOT EXISTS (SELECT * FROM ORDERS WHERE O_CUSTKEY = C_CUSTKEY)) AS

CUSTSALE

GROUP BY CNTRYCODE

ORDER BY CNTRYCODE;

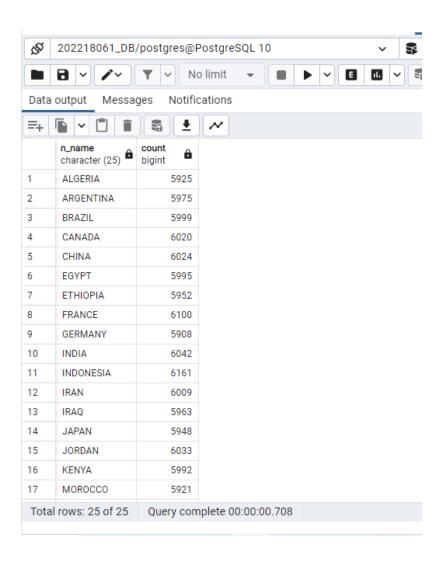
OUTPUT:



Total rows: 7 of 7 Query complete 00:00:02.541

- 2. Write and execute SQL Queries for the following requirements:
- a. Find the number of customers for each country.

SELECT N.N_NAME,
COUNT (C.C_CUSTKEY)
FROM CUSTOMER C
LEFT JOIN NATION N
ON C.c_nationkey = N.n_nationkey
GROUP BY N_NAME;

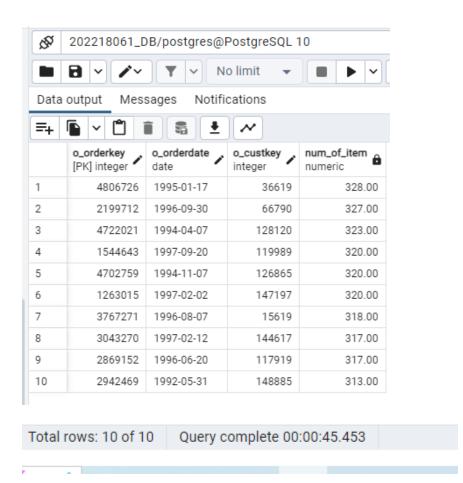


		5921	
18	MOZAMBIQUE	5974	
19	PERU	5975	
20	ROMANIA	6100	
21	RUSSIA	6078	
22	SAUDI ARABIA	5904	
23	UNITED KING	6011	
24	UNITED STAT	5983	
25	VIETNAM	6008	
Total rows: 25 of 25		Query com	plete 00:00:00.708

b. Find the top 10 orders having most items in their orders. Show orderid, date, customerid and count of items in that order.

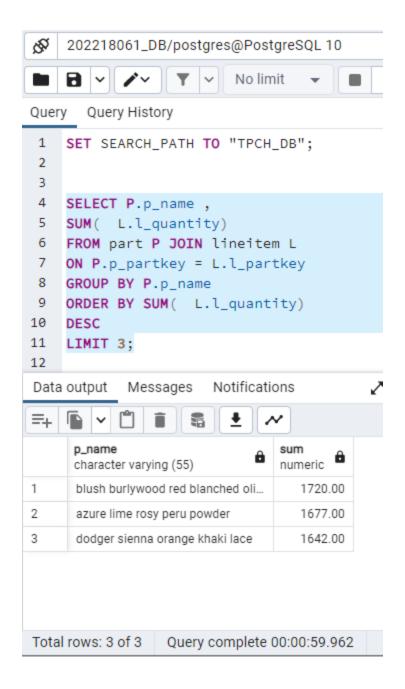
QUERY:

```
SELECT O.o_orderkey,O.o_orderdate,O.o_custkey,
SUM(L.l_quantity)
AS Num_of_Item
FROM orders O JOIN lineitem L
ON O.o_orderkey =L.l_orderkey
GROUP BY O.o_orderkey
ORDER BY SUM(L.l_quantity)
DESC
LIMIT 10;
```



c. Find top 3 parts names and show the count based on the most sold Basis.

SELECT P.p_name,
SUM(L.l_quantity)
FROM part P JOIN lineitem L
ON P.p_partkey = L.l_partkey
GROUP BY P.p_name
ORDER BY SUM(L.l_quantity)
DESC
LIMIT 3;



d. Find the total amount of orders received from each country. Show country name, total money amount of orders and order count sorted by highest first.

SELECT N.n_name, **sum**(O.o_totalprice) **AS** tot_amount_of_orders, **count**(O.o_orderkey)

FROM nation N

JOIN customer C

ON N.n_nationkey = C.c_nationkey

JOIN orders O

ON C.c_custkey = O.o_custkey

GROUP BY N.n_name

ORDER BY count(O.o_orderkey)

DESC;

