



Project Manager

Trash can

TOAD project

New 1 *

New 2 *

+

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2

3

SELECT SUM (od.QUANTITY * p.PRICE)

FROM orderdetails od LEFT JOIN products p ON od.PRODUCTID = p.PRODUCTID

Data Grid

Messages

Data Grid

Trace

DBMS Output (disabled)

Query Viewer

Explain Plan

Script Output

SUM(OD.QUANTITY*P.PRICE)

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C:\Users\Mosi\AppData\Roaming

3: 1

35 msec

Row 1 of 1 Total Rows

SYS@MOSTAFA

Windows (CRLF)

Modified

CAPS

NUM

INS

SYS@MOSTAFA - Toad for Oracle - [Editor (New 1 *)]

File Edit Search Editor Session Database Debug View Team Coding Unit Testing Utilities Rerun Window Help

SYS@MOSTAFA

Editor ER Diagram

Project Manager

Trash can
TOAD project

```
1 SELECT *
2 FROM (
3     SELECT c.CUSTOMERID,
4            c.CUSTOMERNAME,
5            SUM ((od.QUANTITY * p.PRICE))      customer_purchases
6     FROM customers c
7     RIGHT JOIN orders o ON o.CUSTOMERID = c.CUSTOMERID
8     JOIN orderdetails od ON o.ORDERID = od.ORDERID
9     LEFT JOIN products p ON od.PRODUCTID = p.PRODUCTID
10    GROUP BY c.CUSTOMERID, c.CUSTOMERNAME
11    ORDER BY customer_purchases DESC)
12 WHERE ROWNUM <= 5
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

CUSTOMERID	CUSTOMERNAME	CUSTOMER_PURCHASES
20	Ernst Handel	35631.21
51	More Paillarde	23362.6
71	Save-a-lot Markets	22500.06
65	Rattlesnake Canyon Grocery	18421.42
63	QUICK-Stop	18178.8

C:\Users\Mosi\AppData\Roaming 12: 19 63 msec Row 1 of 5 Total Rows SYS@MOSTAFA Windows (CRLF) Modified

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SYS@MOSTAFA - Toad for Oracle - [Editor (New 1 *)]

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Editor ER Diagram

Project Manager

Trash can
TOAD project

```
1 SELECT c.CUSTOMERID, c.CUSTOMERNAME, AVG (od.QUANTITY * p.PRICE) CUSTOMER_AVG
2 FROM customers c
3      RIGHT JOIN orders o ON o.CUSTOMERID = c.CUSTOMERID
4      JOIN orderdetails od ON o.ORDERID = od.ORDERID
5      LEFT JOIN products p ON od.PRODUCTID = p.PRODUCTID
6 GROUP BY c.CUSTOMERID, c.CUSTOMERNAME
7 ORDER BY CUSTOMER_AVG
8
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

CUSTOMERID	CUSTOMERNAME	CUSTOMER_AVG
2	Ana Trujillo Emparedados y helados	55.5
27	Franchi S.p.A.	62.46
13	Centro comercial Moctezuma	63
69	Romero y tomillo	115.83625
29	Galería del gastrónomo	148.25
17	Drachenblut Delikatessend	166.75
18	Du monde entier	168

C:\Users\Mosi\AppData\Roaming 8: 1 31 msec Row 1 of 74 Total Rows SYS@MOSTAFA Windows (CRLF) Modified

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SYS@MOSTAFA - Toad for Oracle - [Editor (New 1 *)]

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< No Workspace selected > Jump Search... (Ctrl+J)

SYS@MOSTAFA

Editor ER Diagram

Project Manager

Trash can
TOAD project

New 1* +

```
1 SELECT RANK () OVER (ORDER BY CUSTOMER_PURCHASES DESC) AS RANK,  
2 CUSTOMERNAME,  
3 CUSTOMER_PURCHASES,  
4 CUSTOMERID  
5 FROM ( SELECT c.CUSTOMERID,  
6 c.CUSTOMERNAME,  
7 COUNT (od.ORDERID) number_of_order,  
8 SUM ((od.QUANTITY * p.PRICE)) customer_purchases  
9 FROM customers c  
10 RIGHT JOIN orders o ON o.CUSTOMERID = c.CUSTOMERID  
11 JOIN orderdetails od ON o.ORDERID = od.ORDERID  
12 LEFT JOIN products p ON od.PRODUCTID = p.PRODUCTID  
13 GROUP BY c.CUSTOMERID, c.CUSTOMERNAME  
14 ORDER BY customer_purchases DESC)  
15 WHERE number_of_order >= 5
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

RANK	CUSTOMERNAME	CUSTOMER_PURCHASES	CUSTOMERID
1	Ernst Handel	35631.21	20
2	More Paillard	23362.6	51
3	Save-a-lot Markets	22500.06	71
4	Rattlesnake Canyon Grocery	18421.42	65
5	QUICK-Stop	18178.8	63
6	Queen Cozinha	17880.6	62
7	Hungry Owl All-Night Grocers	15391.02	37

C:\Users\Mos\AppData\Roaming 15: 28 78 msec Row 1 of 43 Total Rows SYS@MOSTAFA Windows (CRLF) Modified

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object

SQL New 1 * +

```
1      /* Formatted on 5/11/2024 8:41:09 PM (QP5 v5.391) */
2      SELECT p.PRODUCTID, p.PRODUCTNAME, SUM (p.PRICE * od.QUANTITY) selling_sum
3          FROM products p JOIN orderdetails od ON p.PRODUCTID = od.PRODUCTID
4      GROUP BY p.PRODUCTID, p.PRODUCTNAME
5      ORDER BY selling_sum DESC
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

	PRODUCTID	PRODUCTNAME	SELLING_SUM
▶	38	Côte de Blaye	62976.5
	29	Thüringer Rostbratwurst	20796.72
	59	Raclette Courdavault	19030
	62	Tarte au sucre	16022.5
	60	Camembert Pierrot	14620
	17	Alice Mutton	12909
	56	Gnocchi di nonna Alice	10222

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EditorER Diagram

Project Manager

Trash can
TOAD project

SQLNew 1 *SQLNew 2 *SQLNew 3 *+

```
1 SELECT p.CATEGORYID , count(p.PRODUCTID) count_product
2 FROM products p
3 group by p.CATEGORYID
4 order by count(p.PRODUCTID)
```

Data Grid

MessagesData GridTraceDBMS Output (disabled)Query ViewerExplain Plan

	CATEGORYID	COUNT_PRODUCT
▶	7	5
	6	6
	5	7
	4	10
	8	12
	1	12
	2	12

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SYS@MOSTAFA

Editor ER Diagram

Project Manager

SQL New 2 * SQL New 3 * SQL New 4 * SQL New 5 * SQL New 6 * SQL New 7 * SQL New 1 * +

SQL

1 WITH

2 table1

3 AS

4 (SELECT p.PRODUCTID,

5 p.PRODUCTNAME,

6 p.CATEGORYID,

7 SUM (p.PRICE * od.QUANTITY) AS selling_sum

8 FROM products p JOIN orderdetails od ON p.PRODUCTID = od.PRODUCTID

9 GROUP BY p.PRODUCTID, p.PRODUCTNAME, p.CATEGORYID),

10 table_1

11 AS

12 (SELECT CATEGORYID,

13 MAX (selling_sum) OVER (PARTITION BY CATEGORYID) AS sum_1

14 FROM table1)

15 , table_2

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

|| CATEGORYID PRODUCTID MAX_SELLING_OF_EASH_CATEGORY

2 63 9175.1

8 18 6625

1 38 62976.5

5 56 10222

6 29 20796.72

7 51 8639

4 59 19030

||

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SYS@MOSTAFA - Toad for Oracle - [Editor (New 1 *)]

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SYS@MOSTAFA

Editor ER Diagram

Project Manager

Trash can
TOAD project

```
1  /* Formatted on 5/11/2024 10:13:19 PM (QPS v5.391) */
2  SELECT e.EMPLOYEEID,
3         e.FIRSTNAME,
4         e.LASTNAME,
5         SUM(od.QUANTITY * p.PRICE)    income_from
6  FROM   EMPLOYEES e
7         JOIN orders o ON e.EMPLOYEEID = o.EMPLOYEEID
8         JOIN orderdetails od ON o.ORDERID = od.ORDERID
9         JOIN products p ON od.PRODUCTID = p.PRODUCTID
10 GROUP BY e.EMPLOYEEID, e.FIRSTNAME, e.LASTNAME
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

EMPLOYEEID	FIRSTNAME	LASTNAME	INCOME_FROM
1	Nancy	Davolio	57690.39
2	Andrew	Fuller	32503.16
3	Janet	Leverling	42838.35
4	Margaret	Peacock	105696.5
5	Steven	Buchanan	27480.8
6	Michael	Suyama	25399.25
7	Robert	King	39772.3

C:\Users\Mosi\AppData\Roaming 2: 3 31 msec Row 1 of 9 Total Rows SYS@MOSTAFA Windows (CRLF) Modified

CAPS NUM INS

SYS@MOSTAFA

EditorER Diagram

Project Manager

Trash can

TOAD project

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/* Formatted on 5/11/2024 10:16:40 PM (QPS v5.391) */

SELECT e.EMPLOYEEID, AVG (od.QUANTITY * p.PRICE) avg_income_from

FROM EMPLOYEES e

JOIN orders o ON e.EMPLOYEEID = o.EMPLOYEEID

JOIN orderdetails od ON o.ORDERID = od.ORDERID

JOIN products p ON od.PRODUCTID = p.PRODUCTID

GROUP BY e.EMPLOYEEID

ORDER BY avg_income_from

Data Grid

MessagesData GridTraceDBMS Output (disabled)Query ViewerExplain PlanScript Output

EMPLOYEEID

AVG_INCOME_FROM

6

552.157608695652173913043478260869565217

8

578.079117647058823529411764705882352941

3

578.896621621621621621621621621621622

2

663.329795918367346938775510204081632653

1

739.620384615384615384615384615384615385

9

828.110526315789473684210526315789473684

4

859.321138211382113821138211382113821138

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63 msec

Row 1 of 9 Total Rows

SYS@MOSTAFA

Windows (CRLF)

Modified

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SYS@MOSTAFA

Editor ER Diagram

Project Manager



Trash can
TOAD project

New 1 * +

```
1  /* Formatted on 5/11/2024 10:21:22 PM (QP5 v5.391) */
2  •  SELECT c.COUNTRY, SUM (od.QUANTITY * p.PRICE) income_from
3         FROM customers c
4             JOIN orders o ON c.CUSTOMERID = o.CUSTOMERID
5             JOIN orderdetails od ON o.ORDERID = od.ORDERID
6             JOIN products p ON od.PRODUCTID = p.PRODUCTID
7  GROUP BY c.COUNTRY
8  ORDER BY income_from
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output



COUNTRY	INCOME_FROM
Argentina	399
Poland	573.75
Norway	1323.6
Portugal	4170
Spain	4302.19
Italy	4328.56
Mexico	5861.56



C:\Users\Mosi\AppData\Roaming

8: 21

46 msec

Row 1 of 21 Total Rows

SYS@MOSTAFA

Windows (CRLF)

Modified

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```
1      /* Formatted on 5/11/2024 10:37:04 PM (QP5 v5.391) */
2      •      SELECT c.CATEGORYID, c.CATEGORYNAME, AVG (p.PRICE) avg_price
3             FROM CATEGORIES c JOIN products p ON c.CATEGORYID = p.CATEGORYID
4      GROUP BY c.CATEGORYID, c.CATEGORYNAME
5      ORDER BY avg_price
```

Data Grid

Messages | Data Grid | Trace | DBMS Output (disabled) | Query Viewer | Explain Plan | Script Output

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or ER Diagram

Manager

Trash can
OAD project

SQL New 1 * +

```
1  /* Formatted on 5/11/2024 10:37:04 PM (QP5 v5.391) */
2  ► SELECT c.CATEGORYID, c.CATEGORYNAME, max (p.PRICE) max_price
3      FROM CATEGORIES c JOIN products p ON c.CATEGORYID = p.CATEGORYID
4  GROUP BY c.CATEGORYID, c.CATEGORYNAME
5  ORDER BY max_price desc
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script C

	CATEGORYID	CATEGORYNAME	MAX_PRICE
►	1	Beverages	263.5
	6	Meat/Poultry	123.79
	3	Confections	81
	8	Seafood	62.5
	4	Dairy Products	55
	7	Produce	53
	2	Condiments	43.9

Mosi\AppData\Roaming

5: 24

47 msecs

Row 1 of 8 Total Rows

SYS@MOSTAFA

Windows (CRLF)

Modified

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ect

```
SQL New 1 * x SQL New 2 * x +
1 select extract( month from o.ORDERDATE) , count(o.ORDERID) from orders o
2 where extract( year from o.ORDERDATE) = 1996
3 group by extract( month from o.ORDERDATE)
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script



EXTRACT(MONTHFROMO.ORDERDATE)	COUNT(O.ORDERID)
7	22
8	25
11	25
12	31
10	26
9	23



1: 41 47 msec Row 1 of 6 Total Rows SYS@MOSTAFA Windows (CRLF) Modified



SYS@MOSTAFA - Toad for Oracle - [Editor (New 1 *)]

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SYS@MOSTAFA

Editor

Project Manager

Trash can
TOAD project

```
1  /* Formatted on 5/12/2024 8:56:57 PM (QP5 v5.391) */
2  SELECT Season, COUNT (ORDERID)
3  FROM (SELECT o.ORDERID,
4           CASE
5             WHEN EXTRACT (MONTH FROM o.ORDERDATE) IN (12, 1, 2)
6              THEN
7                'Winter'
8             WHEN EXTRACT (MONTH FROM o.ORDERDATE) IN (3, 4, 5)
9              THEN
10               'Spring'
11             WHEN EXTRACT (MONTH FROM o.ORDERDATE) IN (6, 7, 8)
12              THEN
13               'Summer'
14             WHEN EXTRACT (MONTH FROM o.ORDERDATE) IN (9, 10, 11)
15              THEN
16               'Fall'
17             END AS Season
18  FROM orders o)
19  GROUP BY Season
20  ORDER BY COUNT (ORDERID)
```

Data Grid

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

Messages Data Grid Trace DBMS Output (disabled) Query Viewer Explain Plan Script Output

SEASON	COUNT(ORDERID)
Summer	47
Fall	74
Winter	75

C:\Users\Mosi\AppData\Roaming

20: 25

53 msec

Row 1 of 3 Total Rows

SYS@MOSTAFA

Windows (CRLF)

Modified

CAPS NUM INS



Project Manager

Trash can

TOAD project

New 1 *

New 2 *

New 3 *

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5

/* Formatted on 5/11/2024 11:05:59 PM (QP5 v5.391) */

SELECT s.SUPPLIERID, s.SUPPLIERNAME, COUNT (p.PRODUCTID) Sum_of_products

FROM suppliers s JOIN products p ON s.SUPPLIERID = p.SUPPLIERID

GROUP BY s.SUPPLIERID, s.SUPPLIERNAME

ORDER BY COUNT (p.PRODUCTID) DESC

Data Grid

Messages

Data Grid

Trace

DBMS Output (disabled)

Query Viewer

Explain Plan

Script Output

SUPPLIERID

SUPPLIERNAME

SUM_OF_PRODUCTS

7 Pavlova, Ltd.

12 Plutzer Lebensmittelgroßmärkte AG

8 Specialty Biscuits, Ltd.

2 New Orleans Cajun Delights

11 Heli Süßwaren GmbH KG

14 Formaggi Fortini s.r.l.

23 Karkki Oy

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5: 34

47 msec

Row 1 of 29 Total Rows

SYS@MOSTAFA

Windows (CRLF)

Modified

The screenshot displays the TOAD SQL Developer interface. On the left, a project tree shows 'Trash can' and 'TOAD project'. The main window contains a SQL editor with the following query:

```

1  /* Formatted on 5/11/2024 11:05:59 PM (QP5 v5.391) */
2  SELECT s.SUPPLIERID, s.SUPPLIERNAME, avg(p.PRICE)
3         FROM suppliers s JOIN products p ON s.SUPPLIERID = p.SUPPLIERID
4  GROUP BY s.SUPPLIERID, s.SUPPLIERNAME
5  ORDER BY avg(p.PRICE)

```

Below the editor is the 'Data Grid' tab, which shows the results of the query. The grid has three columns: 'SUPPLIERID', 'SUPPLIERNAME', and 'AVG(P.PRICE)'. The data is as follows:

SUPPLIERID	SUPPLIERNAME	AVG(P.PRICE)
10	Refrescos Americanas LTDA	4.5
27	Escargots Nouveaux	13.25
21	Lyngbysild	10.75
22	Zaanse Snoepfabriek	11.125
13	Nord-Ost-Fisch Handelsgesellschaft mbH	25.89
19	New England Seafood Cannery	14.025
9	PB Knøkkebrød AB	15

The bottom status bar indicates the current row is 5 of 23, execution time is 32 msec, and the total number of rows is 29. The user is SYS@MOSTAFA, and the window title is Windows (CRLF).