

SQLyog Community 64 - [mysqlconnect/adventureworks - root@localhost*]

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mysqlconnect x +

Filter tables in adventureworks

root@localhost

adventureworks

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Query 1

Use HTTP/SSH Tunneling to connect to MySQL even if direct connection is disallowed : Reason #36 to upgrade

```

WITH monthly_order_totals AS (
SELECT
    pc.Name AS Category,
    DATE_FORMAT(ph.OrderDate, '%m') AS OrderMonth,
    SUM(pod.OrderQty) AS OrderQuantity
FROM
    PurchaseOrderDetail pod
JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID
JOIN Product p ON pod.ProductID = p.ProductID
JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID
JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID
GROUP BY
    Category,
    OrderMonth WITH ROLLUP
)
SELECT
    Category,
    COALESCE(FROM_CASCADE WHEN OrderMonth = '01' THEN OrderQuantity OVER, 'NULL') AS 'January',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '02' THEN OrderQuantity OVER, 'NULL') AS 'February',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '03' THEN OrderQuantity OVER, 'NULL') AS 'March',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '04' THEN OrderQuantity OVER, 'NULL') AS 'April',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '05' THEN OrderQuantity OVER, 'NULL') AS 'May',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '06' THEN OrderQuantity OVER, 'NULL') AS 'June',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '07' THEN OrderQuantity OVER, 'NULL') AS 'July',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '08' THEN OrderQuantity OVER, 'NULL') AS 'August',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '09' THEN OrderQuantity OVER, 'NULL') AS 'September',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '10' THEN OrderQuantity OVER, 'NULL') AS 'October',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '11' THEN OrderQuantity OVER, 'NULL') AS 'November',
    COALESCE(FROM_CASCADE WHEN OrderMonth = '12' THEN OrderQuantity OVER, 'NULL') AS 'December'
FROM
    monthly_order_totals
WHERE
    Category IS NOT NULL
GROUP BY
    Category
WITH ROLLUP
)

```

1 Result 2 Profiler 3 Messages 4 Table Data 5 Info

Category	January	February	March	April	May	June	July	August	September	October	November	December
Accessories	30250	28275	31700	33000	39400	51150	32200	46750	44000	15950	17600	30500
Clothing	Null	300	Null	20300	18300	1230	24000	Null	Null	300	Null	17200
Components	45340	53530	50900	55240	67460	60310	72840	68560	58460	43570	21570	33670
(NULL)	75590	82105	82600	108540	125360	112690	129040	115310	102460	59820	39170	81670

WITH monthly_order_totals AS (SELECT pc.Name AS Category, DATE_FORMAT(ph.OrderDate, '%m') AS OrderMonth, SUM(pod.OrderQty) AS OrderQuantity FROM PurchaseOrderDetail pod JOIN PurchaseOrd...

Query batch completed successfully Exec: 0.020 sec Total: 0.021 sec 4 row(s) Ln 246, Col 83 Connections: 1 Upgrade to SQLyog Ultimate

Windows taskbar: Type here to search, 3:25 PM, 2/22/2023

WITH monthly_order_totals AS (

SELECT

pc.Name AS Category,

DATE_FORMAT(ph.OrderDate, '%m') AS OrderMonth,

SUM(pod.OrderQty) AS OrderQuantity

FROM

PurchaseOrderDetail pod

JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID

JOIN Product p ON pod.ProductID = p.ProductID

JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID

JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID

GROUP BY

Category,

OrderMonth WITH ROLLUP

)

SELECT

Category,

```
COALESCE(SUM(CASE WHEN OrderMonth = '01' THEN OrderQuantity END), 'Null') AS `January`,
COALESCE(SUM(CASE WHEN OrderMonth = '02' THEN OrderQuantity END), 'Null') AS `February`,
COALESCE(SUM(CASE WHEN OrderMonth = '03' THEN OrderQuantity END), 'Null') AS `March`,
COALESCE(SUM(CASE WHEN OrderMonth = '04' THEN OrderQuantity END), 'Null') AS `April`,
COALESCE(SUM(CASE WHEN OrderMonth = '05' THEN OrderQuantity END), 'Null') AS `May`,
COALESCE(SUM(CASE WHEN OrderMonth = '06' THEN OrderQuantity END), 'Null') AS `June`,
COALESCE(SUM(CASE WHEN OrderMonth = '07' THEN OrderQuantity END), 'Null') AS `July`,
COALESCE(SUM(CASE WHEN OrderMonth = '08' THEN OrderQuantity END), 'Null') AS `August`,
COALESCE(SUM(CASE WHEN OrderMonth = '09' THEN OrderQuantity END), 'Null') AS `September`,
COALESCE(SUM(CASE WHEN OrderMonth = '10' THEN OrderQuantity END), 'Null') AS `October`,
COALESCE(SUM(CASE WHEN OrderMonth = '11' THEN OrderQuantity END), 'Null') AS `November`,
COALESCE(SUM(CASE WHEN OrderMonth = '12' THEN OrderQuantity END), 'Null') AS `December`
```

FROM

monthly_order_totals

WHERE

Category IS NOT NULL

GROUP BY

Category

WITH ROLLUP;

This is a SQL query that retrieves monthly order totals for products categorized by product category. The query first defines a common table expression named "monthly_order_totals" that aggregates the order quantity for each category and order month. The query then uses the ROLLUP operator to group the results by category and order month and also include a summary row that shows the total order quantity for each category across all order months.

The SELECT statement retrieves the order quantities for each category and order month by using a series of SUM and CASE statements to pivot the data. The COALESCE function is used to display "Null" instead of a NULL value in the output.

The WHERE clause filters out the summary row with a NULL category value, and the GROUP BY clause groups the results by category and also includes a summary row with the total order quantity for all categories across all order months.

Overall, this query provides a useful summary of monthly order totals for different product categories, allowing analysts to identify trends and patterns in sales over time.

History:

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Query 1

```
-- Hingel
SELECT
SUBSTR (DATE_FORMAT (ph.OrderDate, '%Y-%m-%d'), 6, 2) AS OrderMonth,
pc.Name AS Category,
ps.Name AS Subcategory,
pod.OrderQty
FROM
PurchaseOrderDetail pod
INNER JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID
INNER JOIN Product p ON pod.ProductID = p.ProductID
INNER JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID
INNER JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID
WHERE
pc.Name = 'Components' AND
ps.Name = 'Brakes' AND
pod.OrderQty = 550;
```

Result

OrderMonth	Category	Subcategory	OrderQty
02	Components	Brakes	550
05	Components	Brakes	550
09	Components	Brakes	550
05	Components	Brakes	550
06	Components	Brakes	550
09	Components	Brakes	550
09	Components	Brakes	550
09	Components	Brakes	550
10	Components	Brakes	550
10	Components	Brakes	550
11	Components	Brakes	550
11	Components	Brakes	550
12	Components	Brakes	550
12	Components	Brakes	550
01	Components	Brakes	550

SELECT SUBSTR (DATE_FORMAT (ph.OrderDate, '%Y-%m-%d'), 6, 2) AS OrderMonth, pc.Name AS Category, ps.Name AS Subcategory, pod.OrderQty FROM PurchaseOrderDetail pod INNER JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID INNER JOIN Product p ON pod.ProductID = p.ProductID INNER JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID INNER JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID WHERE pc.Name = 'Components' AND ps.Name = 'Brakes' AND pod.OrderQty = 550;

Exec: 0.007 sec Total: 0.034 sec 100 rows In 66 Col 1 Connections: 1

Heavy mix

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Query 1

```
-- Hingel2
SELECT
SUBSTR (DATE_FORMAT (ph.OrderDate, '%m'), 6, 2) AS OrderMonth,
pc.Name AS Category,
ps.Name AS Subcategory,
SUM (pod.OrderQty) AS TotalOrderQty
FROM
PurchaseOrderDetail pod
JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID
JOIN Product p ON pod.ProductID = p.ProductID
JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID
JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID
WHERE
pc.Name = 'Components' AND
ps.Name = 'Brakes' AND
pod.OrderQty = 550
GROUP BY
Category,
OrderMonth;
```

Result

OrderMonth	Category	Subcategory	TotalOrderQty
02	Components	Brakes	55000

SELECT SUBSTR (DATE_FORMAT (ph.OrderDate, '%m'), 6, 2) AS OrderMonth, pc.Name AS Category, ps.Name AS Subcategory, SUM (pod.OrderQty) AS TotalOrderQty FROM PurchaseOrderDetail pod JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID JOIN Product p ON pod.ProductID = p.ProductID JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID WHERE pc.Name = 'Components' AND ps.Name = 'Brakes' AND pod.OrderQty = 550 GROUP BY Category, OrderMonth;

Exec: 0.010 sec Total: 0.030 sec 3 rows In 105 Col 11 Connections: 1

Heavy mix

1:35 PM 2/22/2023

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Query Profiler helps you identify problem SQL : Reason #52 to upgrade

```

171
172
173 -- Hinge 3
174
175 SELECT
176     pc.Name AS Category,
177     ps.Name AS Subcategory,
178     SUM(pod.OrderQty) AS TotalOrderQty
179 FROM
180     PurchaseOrderDetail pod
181 JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID
182 JOIN Product p ON pod.ProductID = p.ProductID
183 JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID
184 JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID
185 WHERE
186     pc.Name = 'Components' AND
187     ps.Name = 'Brakes' AND
188     pod.OrderQty = 550
189 GROUP BY
190     Category,
191     OrderMonth;

```

1 Result 2 Profiler 3 Messages 4 Table Data 5 Info

Category	OrderMonth	550 Brakes	Not 550 Brakes	Other Subcategories
Components		55000	0	576650

SELECT pc.Name AS Category, SUBSTR(DATE_FORMAT(ph.OrderDate, '%m'), 6, 2) AS OrderMonth, SUM(CASE WHEN pod.OrderQty = 550 AND ps.Name = 'Brakes' THEN pod.OrderQty ELSE 0 END) AS '550 Brakes', SUM(CASE WHEN pod.OrderQty > 550 AND ps.Name = 'Brakes' THEN pod.OrderQty ELSE 0 END) AS 'Not 550 Brakes', SUM(CASE WHEN ps.Name <> 'Brakes' THEN pod.OrderQty ELSE 0 END) AS 'Other Subcategories' FROM PurchaseOrderDetail pod JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID JOIN Product p ON pod.ProductID = p.ProductID JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID WHERE pc.Name = 'Components' GROUP BY Category, OrderMonth WITH ROLLUP;

Query Profiler reports the exact time spent in each step of query execution : Reason #56 to upgrade

```

217 -- Hinge4
218
219 SELECT
220     pc.Name AS Category,
221     SUBSTR(DATE_FORMAT(ph.OrderDate, '%m'), 6, 2) AS OrderMonth,
222     SUM(CASE WHEN pod.OrderQty = 550 AND ps.Name = 'Brakes' THEN pod.OrderQty ELSE 0 END) AS '550 Brakes',
223     SUM(CASE WHEN pod.OrderQty > 550 AND ps.Name = 'Brakes' THEN pod.OrderQty ELSE 0 END) AS 'Not 550 Brakes',
224     SUM(CASE WHEN ps.Name <> 'Brakes' THEN pod.OrderQty ELSE 0 END) AS 'Other Subcategories'
225 FROM
226     PurchaseOrderDetail pod
227 JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID
228 JOIN Product p ON pod.ProductID = p.ProductID
229 JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID
230 JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID
231 WHERE
232     pc.Name = 'Components'
233 GROUP BY
234     Category,
235     OrderMonth WITH ROLLUP;

```

1 Result 2 Profiler 3 Messages 4 Table Data 5 Info

Category	OrderMonth	550 Brakes	Not 550 Brakes	Other Subcategories
Components		55000	0	576650
Components (NULL)		55000	0	576650
(NULL)	(NULL)	55000	0	576650

SELECT pc.Name AS Category, SUBSTR(DATE_FORMAT(ph.OrderDate, '%m'), 6, 2) AS OrderMonth, SUM(CASE WHEN pod.OrderQty = 550 AND ps.Name = 'Brakes' THEN pod.OrderQty ELSE 0 END) AS '550 Brakes', SUM(CASE WHEN pod.OrderQty > 550 AND ps.Name = 'Brakes' THEN pod.OrderQty ELSE 0 END) AS 'Not 550 Brakes', SUM(CASE WHEN ps.Name <> 'Brakes' THEN pod.OrderQty ELSE 0 END) AS 'Other Subcategories' FROM PurchaseOrderDetail pod JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID JOIN Product p ON pod.ProductID = p.ProductID JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID WHERE pc.Name = 'Components' GROUP BY Category, OrderMonth WITH ROLLUP;

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Query Profiler analyzes queries and helps you optimize them : Reason #55 to upgrade

Query 1

```

SELECT
  pc.Name AS Category,
  SUM(od.OrderQty) AS OrderMonth,
  SUM(od.OrderQty) AS OrderQuantity
FROM
  PurchaseOrderDetail pod
  JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID
  JOIN Product p ON pod.ProductID = p.ProductID
  JOIN ProductSubcategory ps ON p.ProductSubcategoryID = ps.ProductSubcategoryID
  JOIN ProductCategory pc ON ps.ProductCategoryID = pc.ProductCategoryID
WHERE
  OrderMonth = '2011-01-01'
GROUP BY
  Category

```

Result

Category	January	February	March	April	May	June	July	August	September	October	November	December
Accessories	30250	28275	31700	33000	39600	51150	32200	46750	44000	15950	17600	30800
Clothing	Null	300	Null	20300	18300	1230	24000	Null	Null	300	Null	17200
Components	45340	53530	50900	55240	67440	60310	72840	65560	55660	43570	21570	33670
(NULL)	45340	53530	50900	55240	67440	60310	72840	65560	55660	43570	21570	33670

WITH monthly_order_totals AS (SELECT pc.Name AS Category, DATE_FORMAT(ph.OrderDate, '%m') AS OrderMonth, SUM(pod.OrderQty) AS OrderQuantity FROM PurchaseOrderDetail pod JOIN PurchaseOrderHeader ph ON pod.PurchaseOrderID = ph.PurchaseOrderID GROUP BY Category, OrderMonth)

Query 1

Category

OrderMonth

OrderQuantity

Accessories

2011-01-01

30250

Clothing

2011-01-01

300

Components

2011-01-01

45340

(NULL)

2011-01-01

45340