

Question 3 Queries & Results

question1 x question3 x

Limit to 1000 rows

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1 # USE Ass1_Q3;
2 # 1 - Write a query that displays the following statistics for each country:
3 # Total number of customers
4 # Total number of male customers
5 # Total number of female customers
6 # Percent of all customers that are male (Percent Male).
7 • SELECT Country, Total_Customers, Male, (Total_Customers - Male) as Female, (Male / Total_Customers) * 100 as Percent_Male
8 FROM
9 (SELECT male_count.Country, male_count.male, all_count.Total_Customers
10 FROM
11 (SELECT Country, Gender, COUNT(*) as Male
12 FROM customer
13 GROUP BY Gender, Country
14 HAVING Gender = 'M') male_count
15 INNER JOIN
16 (SELECT Country, COUNT(*) as Total_Customers FROM customer GROUP BY Country) all_count
17 ON male_count.Country = all_count.Country
18 ) combined

```

100% 11:18

Result Grid Filter Rows: Search Export:

Country	Total_Customers	male	Female	Percent_Male
ZA	4	1	3	25.0000
CA	15	7	8	46.6667
US	28	15	13	53.5714
AU	8	5	3	62.5000
DE	10	7	3	70.0000
IL	5	5	0	100.0000
TR	7	7	0	100.0000

Figure1: Q3/1 Expression & Output

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22 # 2 - Create a result by combining two tables.
23 # Include columns Product_ID, Product_Name from product_dim table.
24 # Include a column with the label Total Sold. Use a summary function to create
25 # this column, which displays the quantity sold for each product.
26 # Specifies the tables product_dim, with the alias p and order_fact with the alias o
27 # Join the tables by matching the values of the appropriate columns in each table.
28 # Groups the results by Product_ID from product_dim table and Product_Name.
29 # Orders the rows so that products with the highest number sold appear at the
30 # top of the report and then by Product_Name.
31
32 • SELECT p.Product_ID, p.Product_NAME, SUM(o.Quantity) as Total_Sold
33 FROM product_dim p
34 INNER JOIN order_fact o
35 ON p.Product_ID = o.Product_ID
36 GROUP BY p.Product_ID, p.Product_Name
37 ORDER BY Total_Sold DESC;
38
39

```

100% 1:39

Result Grid Filter Rows: Search Export:

Product_ID	Product_NAME	Total_Sold
230100600022	Expedition10,Medium,Right,Blue Ribbon	9
230100600016	Expedition Zero,Medium,Right,Charcoal	8
230100700011	Hurricane 4	8
230100500056	Knife	8
230100600030	Outback Sleeping Bag, Large,Left,Blue/Black	8
240700100001	Armour L	8
220101400387	N.d.gear Cap	7
230100600031	Outback Sleeping Bag, Large,Right, Blue/Black	7
240500100017	A-team Sweat Round Neck, Small Logo	7
240700200010	Bat - Home Run S	7
240400300035	Smasher Shorts	7
240200200039	Faale Plain Can	6

Figure2: Q3/2 Expression & Output – Displays 12 of 481

question1 x question3*

Limit to 1000 rows

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53
54
55 # 4- 1) Calculate the difference between the salary of the current row and the previous row
56 • SET @quot=NULL;
57 • SELECT Employee_ID, Salary, lag_salary, (Salary - lag_salary) as Lag_diff
58 FROM
59 (SELECT Employee_ID,Salary,@quot lag_salary, @quot:=salary curr_salary
60 FROM employee_payroll
61 ORDER BY Employee_ID) a;
62
63
64 # 2) Calculate the difference between the salary of current row and the following row.
65 • SELECT t1.Employee_ID, t1.Salary, t2.Salary as Lead_Salary, (t2.Salary - t1.Salary) as Lead_diff
66 FROM (
67 SELECT Employee_ID, Salary, @rownum1 := @rownum1 + 1 AS id
68 FROM
69 employee_payroll , (SELECT @rownum1 := 0) r
70 ORDER BY
71

```

100% 25:61

Result Grid Filter Rows: Search Export:

Employee_ID	Salary	lag_salary	Lag_diff
120101	163040	108255	-54785
120103	87975	108255	-20280
120104	46230	87975	-41745
120105	27110	46230	-19120
120106	26960	27110	-150
120107	30475	26960	3515
120108	27660	30475	-2815
120109	26495	27660	-1165
120110	28615	26495	2120
120111	26895	28615	-1720
120112	26550	26895	-345
120113	26870	26550	320

Figure3: Q3/4-1 Expression & Output – Displays 12 of 424

question1 x question3*

Limit to 1000 rows

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62
63
64 # 2) Calculate the difference between the salary of current row and the following row.
65 • SELECT t1.Employee_ID, t1.Salary, t2.Salary as Lead_Salary, (t2.Salary - t1.Salary) as Lead_diff
66 FROM (
67 SELECT Employee_ID, Salary, @rownum1 := @rownum1 + 1 AS id
68 FROM
69 employee_payroll , (SELECT @rownum1 := 0) r
70 ORDER BY
71 employee_payroll.Employee_ID ASC
72 ) AS t1
73 LEFT OUTER JOIN (
74 SELECT Employee_ID, Salary, @rownum2 := @rownum2 + 1 AS id
75 FROM
76 employee_payroll, (SELECT @rownum2 := 0) r
77 ORDER BY
78 employee_payroll.Employee_ID ASC
79 ) AS t2
80 ON t1.id +1 = t2.id;
81
82
83

```

100% 1:65

Result Grid Filter Rows: Search Export:

Employee_ID	Salary	Lead_Salary	Lead_diff
120101	163040	108255	-54785
120102	108255	87975	-20280
120103	87975	46230	-41745
120104	46230	27110	-19120
120105	27110	26960	-150
120106	26960	30475	3515
120107	30475	27660	-2815
120108	27660	26495	-1165

Result 13

Figure4: Q3/4-2 Expression & Output – Displays 8 of 424