

Solution 1:

Assignment+Part+II+(1).sql • Assignment+Part+I.sql • Assignment1.sql • supply_db schema.sql

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```
3
4   Description:
5       Find the combined month-wise sales and quantities sold for all the Nike products.
6       The months should be formatted as 'YYYY-MM' (for example, '2019-01' for January 2019).
7       Sort the output based on the month column (from the oldest to newest). The output should have following columns :
8           -Month
9           -Quantities_sold
10          -Sales
11      HINT:
12          Use orders, ordered_items, and product_info tables from the Supply chain dataset.
13  */
14
15  ▶ Execute
16  SELECT TO_CHAR(o."Order_Date", 'YYYY-MM') AS Month,
17         SUM(oi."Quantity") AS Quantities_sold,
18         SUM(oi."Sales") AS Sales
19  FROM orders o
20  JOIN ordered_items oi ON o."Order_Id" = oi."Order_Id"
21  JOIN product_info pi ON oi."Item_Id" = pi."Product_Id"
22  WHERE pi."Product_Name" LIKE '%Nike%'
23  GROUP BY Month
24  ORDER BY Month; 15ms
```

Result

Search results

Cost: 15ms < 1 > Total 6

	month	quantities_sold	sales
1	2018-10	137	10820.27
2	2018-11	456	35280.94
3	2018-12	622	48223.02
4	2019-01	693	51995.10
5	2019-02	636	48868.08
6	2019-03	299	22518.64

Solution 2 :

Assignment+Part+II+(1).sql • Assignment+Part+I.sql • Assignment1.sql • supply_db schema.sql

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```
34   Description: What are the top five costliest products in the catalogue? Provide the following information/details:
35   -Product_Id
36   -Product_Name
37   -Category_Name
38   -Department_Name
39   -Product_Price
40
41   Sort the result in the descending order of the Product_Price.
42
43   HINT:
44   Use product_info, category, and department tables from the Supply chain dataset.
45
46  */
47  ▶ Execute
48  SELECT pi."Product_Id", pi."Product_Name", c."Name" as Category_Name, d."Name" as Department_Name, pi."Product_Price"
49  FROM product_info pi
50  JOIN category c ON pi."Category_Id" = c."Id"
51  JOIN department d ON c."Id" = d."Id"
52  ORDER BY pi."Product_Price" DESC
53  LIMIT 5;
```

Result

Search results

Cost: 3ms < 1 2 > Total 10

	Product_Id	Product_Name	category_name	department_name	Product_Price
1	191	Nike Mens Free 5.0+ Running Shoe	Cardio Equipment	Discs Shop	99.99
2	44	adidas Mens F10 Messi TRX FG Soccer Cleat	Baseball & Softball	Footwear	59.99
3	249	Under Armour Womens Micro G Skulpt Running S	Boxing & MMA	Health and Beauty	54.97
4	116	Nike Mens Comfort 2 Slide	Tennis & Racquet	Outdoors	44.99
5	37	adidas Kids F5 Messi FG Soccer Cleat	Baseball & Softball	Footwear	34.99

Solution 3:

Assignment+Part+II+(1).sql • Assignment+Part+I.sql • Assignment1.sql • supply_db schema.sql

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```

57  /*
58
59  Question : Cash customers
60
61  Description: Identify the top 10 most ordered items based on sales from all the 'CASH' type orders.
62  Provide the Product Name, Sales, and Distinct Order count for these items. Sort the table in descending
63  order of Order counts and for the cases where the order count is the same, sort based on sales (highest to
64  lowest) within that group.
65
66  HINT: Use orders, ordered_items, and product_info tables from the Supply chain dataset.
67  */
68
69  ▶ Execute
70  SELECT pi."Product_Name", SUM(oi."Sales") AS Sales, COUNT(DISTINCT o."Order_Id") AS Order_Count
71  FROM orders o
72  JOIN ordered_items oi ON o."Order_Id" = oi."Order_Id"
73  JOIN product_info pi ON oi."Item_Id" = pi."Product_Id"
74  WHERE o."Type" = 'CASH'
75  GROUP BY pi."Product_Name"
76  ORDER BY Order_Count DESC, Sales DESC
77  LIMIT 10; 9ms

```

Result

Search results

Cost: 9ms < 1 2 3 4 ... 6 > Total 53

	Product_Name	sales	order_count
1	Perfect Fitness Perfect Rip I	9358.44	45
2	Nike Mens Dri-FIT Victory C	6250.00	43
3	OBrien Mens Neoprene Life	7546.98	42
4	Nike Mens CJ Elite 2 TD Fo	6239.52	40
5	Field & Stream Sportsman	16799.16	36
6	Pelican Sunstream 100 Kau	7500.62	34

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Solution 4:

Assignment+Part+II+(1).sql • Assignment+Part+I.sql • Assignment1.sql • supply_db schema.sql

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```

79  -- *****
80  /*
81  Question : Customers from Texas
82
83  Obtain all the details from the Orders table (all columns) for customer orders in the state of Texas (TX),
84  whose street address contains the word 'Plaza' but not the word 'Mountain'. The output should be sorted by the Order_Id.
85
86  HINT: Use orders and customer_info tables from the Supply chain dataset.
87  */
88
89  ▶ Execute
90  SELECT *
91  FROM orders o
92  JOIN customer_info c ON o."Customer_Id" = c."Id"
93  WHERE c."State" = 'TX'
94  AND c."Street" LIKE '%Plaza%'
95  AND c."Street" NOT LIKE '%Mountain%'
96  ORDER BY o."Order_Id"; 21ms
97
98  -- *****
99

```

Result

Search results

Cost: 21ms < 1 > Total 3

	Order_Id	Type	Real	Schedule	Customer_Id	Order_City	Order_Date	Order_Region	Order_State	Order_Status	Shipping_Mode
1	22204	DEBIT	0	0	9666	Bangalore	2018-11-20	South Asia	Karnataka	COMPLETE	Same Day
2	22945	DEBIT	6	4	1	Mumbai	2018-11-30	South Asia	Maharashtra	COMPLETE	Standard Class
3	29104	DEBIT	5	4	2545	Mumbai	2019-02-28	South Asia	Maharashtra	COMPLETE	Standard Class

Solution 5:

Assignment+Part+II+(1).sql • Assignment+Part+I.sql • Assignment1.sql • supply_db schema.sql

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```

100  /*
101
102  Question: Home office
103
104  For all the orders of the customers belonging to "Home Office" Segment and have ordered items belonging
105  "Apparel" or "Outdoors" departments. Compute the total count of such orders. The final output should contain
106  following columns:
107  -Order_Count
108
109  */
110
111  > Execute
112  SELECT COUNT(DISTINCT o."Order_Id") AS Order_Count
113  FROM orders o
114  JOIN customer_info c ON o."Customer_Id" = c."Id"
115  JOIN ordered_items oi ON o."Order_Id" = oi."Order_Id"
116  JOIN product_info pi ON oi."Item_Id" = pi."Product_Id"
117  JOIN department d ON pi."Department_Id" = d."Id"
118  WHERE c."Segment" = 'Home Office'
119       AND d."Name" IN ('Apparel', 'Outdoors'); 9ms
120

```

Result

Search results

order_count

Order_Count
203

Cost: 9ms < 1 > Total 1

Solution 6:

Assignment+Part+II+(1).sql • Assignment+Part+I.sql • Assignment1.sql • supply_db schema.sql • orders

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```

136  -Order_City
137  -Order_Count
138  -City_Rank
139
140  HINT: Use orders, ordered_items, product_info, customer_info, and department tables from the Supply chain dataset.
141
142  */
143
144  > Execute
145  SELECT "Order_State", "Order_City", COUNT(*) AS "Order_Count",
146         DENSE_RANK() OVER (PARTITION BY "Order_State" ORDER BY COUNT(*) DESC, "Order_City") AS "City_Rank"
147  FROM orders o
148  JOIN customer_info c ON o."Customer_Id" = c."Id"
149  JOIN ordered_items oi ON o."Order_Id" = oi."Order_Id"
150  JOIN product_info pi ON oi."Item_Id" = pi."Product_Id"
151  JOIN department d ON pi."Department_Id" = d."Id"
152  WHERE c."Segment" = 'Home Office'
153       AND d."Name" IN ('Apparel', 'Outdoors')
154  GROUP BY "Order_State", "Order_City"
155  ORDER BY "Order_State" ASC, "City_Rank" ASC, "Order_City" ASC;
156

```

Result

Search results

Order_State Order_City Order_Count City_Rank

	Order_State	Order_City	Order_Count	City_Rank
1	Andhra Pradesh	Visakhapatnam	4	1
2	Andhra Pradesh	Nellore	2	2
3	Andhra Pradesh	Anantapur	1	3
4	Andhra Pradesh	Guntur	1	4
5	Andhra Pradesh	Vijayawada	1	5

Cost: 65ms < 1 > Total 84

Solution 7:

Assignment+Part+II+(1).sql • Assignment+Part+I.sql • Assignment1.sql • supply_db schema.sql • orders

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Execute

✓ 175 WITH underestimated_orders AS (
176 SELECT o."Shipping_Mode",
177 EXTRACT(YEAR FROM o."Order_Date") AS "Order_Year",
178 COUNT(*) AS "Shipping_Underestimated_Order_Count",
179 ROW_NUMBER() OVER (PARTITION BY EXTRACT(YEAR FROM o."Order_Date") ORDER BY COUNT(*) DESC) AS "Shipping_Mode_Rank"
180 FROM orders o
181 JOIN customer_info c ON o."Customer_Id" = c."Id"
182 WHERE o."Scheduled_Shipping_Days" < o."Real_Shipping_Days"
183 AND o."Order_Status" IN ('COMPLETE', 'CLOSED')
184 AND c."Segment" = 'Consumer'
185 GROUP BY o."Shipping_Mode", "Order_Year"
186)
187 SELECT "Shipping_Mode", "Shipping_Underestimated_Order_Count", "Shipping_Mode_Rank"
188 FROM underestimated_orders
189 ORDER BY "Order_Year" ASC, "Shipping_Mode_Rank" ASC; 12ms

Result

Search results

Cost: 12ms < 1 > Total 16

	Shipping_Mode	Shipping_Underestimated_Order_Count	Shipping_Mode_Rank
1	Standard Class	29	1
2	First Class	25	2
3	Second Class	17	3
4	Same Day	1	4
5	Standard Class	40	1
6	Second Class	34	2
7	First Class	26	3
8	Same Day	5	4
9	Second Class	23	1

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