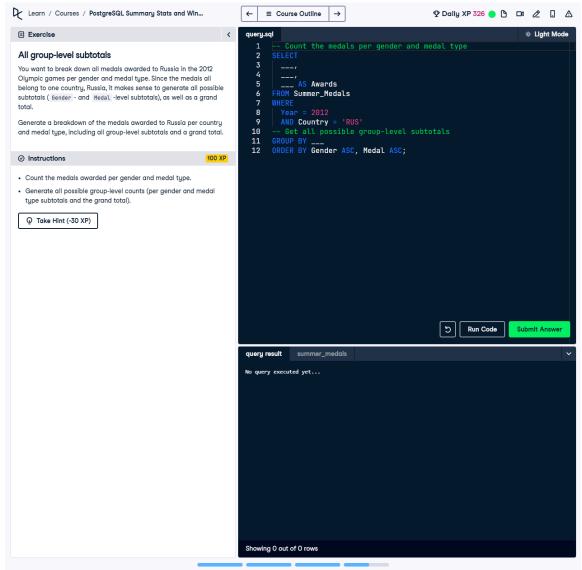
All Group-Level Subtotals with CUBE - Correct Answer



You want to break down all medals awarded to Russia in the 2012 Olympic games per gender and medal type. This includes generating all possible subtotals (Gender- and Medal-level subtotals) as well as a grand total.

Correct Answer

-- Count the medals per gender and medal type SELECT Gender, Medal, COUNT(*) AS Awards FROM Summer_Medals
WHERE
Year = 2012
AND Country = 'RUS'
-- Generate all possible group-level subtotals using CUBE
GROUP BY CUBE(Gender, Medal)
ORDER BY Gender ASC, Medal ASC;

Explanation

- 1. **Filtering Criteria:**
- Year = 2012: Focuses the query on medals awarded in the 2012 Olympics.
- `Country = 'RUS'`: Filters the results to only include medals won by Russia.
- 2. **Aggregation:**
- `COUNT(*) AS Awards`: Counts the total number of medals for each grouping combination.
- 3. **Using CUBE for Grouping:**
- `GROUP BY CUBE(Gender, Medal)`: Automatically generates all group-level subtotals:
 - `(Gender, Medal)`: Medals grouped by both gender and medal type.
 - `(Gender)`: Subtotals grouped only by gender.
 - `(Medal)`: Subtotals grouped only by medal type.
 - `()`: Computes the grand total across all categories.
- 4. **Sorting:**
- `ORDER BY Gender ASC, Medal ASC`: Displays results ordered by gender and medal type for clarity.