



Based on the *data cube* previously created, perform the following multidimensional data analysis in *Microsoft Excel* or *Microsoft Power BI* using the pivot table format:

1. Total value of the annual sales.
2. Total value of the annual sales by city.
3. Total value of the annual sales and quantities, by customer city and by customer gender.
4. Quantities sold in the 3<sup>rd</sup> quarter of the year by item category.
5. Total value of sales by item category, with the chance of analysis also at the subcategory level (i.e., drill down), made during the weekends of the year.
6. Total value of sales by customer region and by month, but only for the customers whose marital status is single.
7. Quantities sold in each day of February.
8. Total value of sales by week for all the products that have the “Toyquest” brand.
9. Total value of sales made until the 8<sup>th</sup> day of each month, organized by semester.
10. Total value of sales and quantities, between the 100<sup>th</sup> and 109<sup>th</sup> day of the year, for the item “Office Space 10”.
11. Total value of sales and quantities in the 51<sup>st</sup> week (the one before Christmas), by customer gender and by the number of children.
12. Total value of sales between 20<sup>th</sup> and 24<sup>th</sup> of December, for the item categories “Computers” and “Game Consoles” made to customers that have more than one children.
13. Total value of sales by each item that belongs to the category “Accessories” but only for the customers that live in cities belonging to the eastern region.
14. Quantities sold of the items that belong to the “PC Game” subcategory, made from Monday to Friday and paid by cash advance or debit card.
15. Total value of sales and quantities by item, with the chance of analysis just at the brand level (i.e., roll up) in the 1<sup>st</sup> and 3<sup>rd</sup> quarter of the year.
16. Total value of sales by store and payment method, made during the afternoon, during the month of December.