



Data Associate: Interview Assignment

Purpose of this assignment

The purpose of this brief assignment is to test your ability to extract information from data and to present it in a meaningful way.

General guidelines

- You can use any set of tools to extract, analyse and visualize your data.
- The steps and visuals leading to your answer is as if not more important than the answer itself.
- Be creative with your answers and the presentation of them.
- The data required to complete this assignment is provided in 5 separate Excel workbooks. The data will be dropped in a SharePoint folder and the link will be provided by email.
- A .sql file is provided with the database and table create scripts.
- You should be able to complete the assignment in a maximum of 8 hours.

Assignment Deliverables

You will be required to give verbal and visual feedback during a 60-minute virtual Microsoft Teams meeting. The meeting will include me and one or two of my colleagues.

This session will be scheduled 5 working days after you receive the assignment.

There is no formal written deliverables beyond the 60-minute feedback session.

Data Background

Prophet Systems is a leading software provider for the fresh food and horticultural business, with extensive experience of fresh and chilled perishable produce. Atom DTS was in fact founded out of Prophet Systems. They are therefore a primary partner of Atom DTS and their systems are also our main source of data. For more information on Prophet Systems visit the website at <https://www.prophetize.com/>

The data set provided to you simulates a typical *Detailed Season Report* (DSR) for an Exporter in the Fresh Produce industry. This DSR is created in Qx, which is one of the leading ERP systems in the fresh produce industry and is developed and maintained by Prophet System.

The DSR report provides information on all the sales that an exporter made during a season. The report provides an aggregate view of fruit volumes as well as the financial expenses and returns.

Assessment Questions

1. Import the provided excel data into a SQL database.
2. Provide an overview of the exporter's business.
 - 2.1. How many producers supplies fruit to this exporter?
 - 2.2. How many different varieties of fruit are being exported?
 - 2.3. How many tons per variety are being supplied to the exporter?
 - 2.4. What is the average return are growers getting per standard carton?
 - 2.5. What are the most prominent Target Markets that fruit are exported to?
3. Provide an overview of the producer named Corellia's.
 - 3.1. How many tons is the producer producing by hectare of their farm?
 - 3.2. What are the most prominent fruit variety groups, based on tons produced?
 - 3.3. What return did the producer receive for 2020 in comparison with 2019?
 - 3.4. What is the distribution of the quality grades of the producer's fruit?
 - 3.5. What volume of cartons by count is packed for the producer?
 - 3.6. **Bonus: Be able to show the same information for any of the other producers and across multiple years.
4. Provide an estimate of the year-end returns for the Mustafar for 2021?
5. What is the best performing farm (of any producer) for this exporter?



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