Chapter 2 End-of-Chapter Assignment and Lab Solutions

Multiple Choice Questions

1. (LO 2-4) What would be most likely to be disclosed in an 8-K filing to the SEC?
    a. Financial statements
    b. Change in auditor
    c. Management Discussion and Analysis
    d. Overview of a company's main operations
2. (LO 2-4) What is the computer-based standard used to define and exchange financial information from financial statements preparers and financial statement users?
    a. SEC EDGAR
    b. XBRL
    c. Earnings call
    d. Customer Relationship Management
3. (LO 2-5) Which system would be used to manage the hiring process for all potential employees?
    a. Human Resource Management System
    b. Customer Relationship Management System
    c. Supply Chain System
    d. Financial Reporting System
4. (LO 2-4) The biggest difference between a 10-K and a 10-Q is the _____ disclosure.
    a. frequency of
    b. agency that receives the
    c. financial statements included in the
    d. company providing the
5. (LO 2-5) The chapter suggested that _____ be used to help evaluate inventory obsolescence and the lower of cost or net realizable value of inventory.
    a. product reviews
    b. inventory counts
    c. structured data
    d. supply chain data
6. (LO 2-3) Whereas _____ would generally be considered to structured data, _____ would generally be considered to be unstructured data.
    a. financial statements; product reviews
    b. product reviews; financial statements
    c. Instagram pictures; product reviews
    d. geographic images; firm budget
7. (LO 2-3) If there were fake news presented by someone trying to sway an opinion (or a vote), that would bring into question which aspect of Big Data?
    a. Volume
    b. Veracity

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c. Velocity
d. Variety

8. (LO 2-4) An announcement of a new CEO would most likely be reported on which SEC form?
    a. 10-K
    b. 10-Q
    c. 8-K
    d. S-1
9. (LO 2-2, LO 2-5) There are really very few opportunities to have a question-and-answer session with the CEO of a company and have it recorded for others to use. However, _____ of such an interactive question-and-answer session that is fairly widely available to all interested parties.
    a. management discussion and analysis as part of the 10-K
    b. conference call transcripts
    c. press releases
    d. SEC form 8-K
10. (LO 2-4) A business report that allows an easy, automated exchange between a financial statement repository and a financial statement user is possible using _____.
    a. XBRL
    b. XML
    c. excel
    d. Google financials

Discussion Questions

1. Here are some potential items that you might be interested in knowing:
    a. The capacity and the tickets sold for each prior flight from New York to Miami for the last six months.
    b. What day of the week/what time of day are flights usually oversold?
    c. At what point do the airlines decide to award vouchers to customers to rebook their travel to a later time/date (i.e., how much oversold).
2. Stock prices change on a second-by-second basis for most publicly traded companies during the hours the stock exchange is open (9:30am to 4pm ET) as well as afterhours trading. Contrast that to the income statement that is only issued on a quarterly basis. Clearly stock prices have higher velocity than the income statement (or all financial statements). The income statement should have higher veracity than the stock prices as stock prices sometimes reflect more than just the value of the company and may be swayed (at least in the short-run) by (inaccurate) sentiment. It is unclear what the value of financial statements issued on a more frequent basis would be to the investors. It is good to get information on a timelier basis, but if it causes additional information overload, it may not be useful.

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3. Balance sheets and other financial statements lend themselves well to a tabular format where each number is associated with a title, or a tag. In contrast, the form and function of product reviews, in general, do not lend themselves to the same structure as the financial statements.
4. In general, financial statements are checked and rechecked and audited by both internal and external auditors and have pretty good veracity. Blogs are usually opinions that are not fact-checked and thus would, in general, exhibit lower veracity.
5. A set of Instagram posts would, in general, exhibit more variety than does spreadsheet employee data. Employee data likely would have factual based information, whereas Instagram posts would include selfies, opinions, political statements, etc.
6. Form 10-K, an annual submission to the Securities and Exchange Commission, requires management discussion and analysis. It offers management an opportunity to explain prior results and forecast future goals, strategies and accounting performance. This information would be useful by data analysts to help their prediction models for future performance. Textual analysis is increasingly used to evaluate the sentiment and meaning of the data using machine learning techniques.
7. A budget would help a data analyst know what the company expected before actual performance occurred. And the actual performance would let a data analyst how well the company performed relative to those expectations.
8. Data analysts might perform textual analysis to examine the relative sentiment (good vs bad vs. average) of the management participating in the conference call.
9. A company might use its Human Resource Management system data to evaluate its employee turnover. A company might evaluate the training received by the employee, how long they were employed, if they had a college degree, their absenteeism rate, their prior performance evaluations, etc., to evaluate why they quit or kept their jobs.
10. A company could use its Customer Relationship Management data to evaluate whether a customer is continuing to order product, historical length to pay the receivables owed to the company, if the customer is still in business, etc.
11. A company could use its Supply Chain data to evaluate whether a fraudulent vendor is set up by confirming that the vendor provided product, what kind of product, etc. before deciding whether to pay the vendor.
12. Point-of-sale data could be used by a vendor to determine where (e.g., location), when (date, or time of day), to whom (which customer) that product was sold. This will help the supplier have the right product, in the right place, at the right time, at the right price for its customers.

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Brief Exercises

1. **(LO 2-4) Match the accounting data term to the definition provided.**

Accounting Data Term	Definition
Fixed Assets	plant (factories, office buildings, stores, etc.) and equipment (vehicles, fork lifts, computers, machinery, power tools, technical apparatus).
EDGAR	automatically collects, validates, indexes and services as a repository for all forms submitted to the Securities and Exchange Commission
8-K	a required submission to the Securities and Exchange Commission (SEC) that is used to notify investors of important events or announcements that either the SEC or shareholders might be interested in receiving.
Data analytics	the technologies, systems, practices, methodologies, databases, statistics, and applications used to analyze diverse accounting and non-accounting data to give organizations the information they need to make sound and timely business decisions.

2. **(LO2-4, LO2-5) Match the accounting and non-accounting data terms to the example of that data.**

Accounting Data Term	Example of Data
Customer Relationship Management System	Customer order history
Human Resource Management System	Employee salary history
Supply Chain System	Vendor ID and address
SEC EDGAR	Form 8-K
XBRL	IBM's Accounts Receivable in 2021

3. **(LO2-3) Match the data characteristic one of the Four V's of Big Data.**

Data Characteristic	Big V's of Big Data
Speed of Generation	Velocity
Unstructured Data	Variety
Uncleaned data	Veracity
Sheer Size of Data	Volume
Untrusted Data	Veracity
Semi-structured Data	Variety
Rate of Analysis	Velocity

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4. **(LO2-4, LO2-5) Match the data source to the data provided.**

Data Provided	Data Source
How many bananas sold in what location?	Point-of-Sale Terminal/Data
How many days employee 313 missed work last year?	Human Resource Management System
CEO and CFO comments made on recent earnings performance	Earnings Conference Call
Details on Accumulated Depreciation taken to Date for Tax Purposes	Fixed Asset Subledger
Financial Statement Data	SEC EDGAR or Yahoo! Finance
Company Prediction of Future Sales Performance	Budget Data
External Party Prediction of Future Earnings	Financial Analyst Forecast

Problems

1. Solution: **Summarize monthly sales and compute the % Change from one month to the next (as shown in the chapter).**
    - (2b) What is the August monthly sales? $476,883
    - (2c) What is the December monthly sales? $464,258
    - (3b) What is the percentage change in monthly sales from June to July (round to two decimal points)? -5.99%
    - (3c) What is the percentage change in monthly sales from November to December (round to two decimal points)? 4.31%
2. **Solution: Summarize sales by month, by sales region (regions 1-4), and by both month and region.**

   Solution:
    - (2b) What is the January monthly sales? $488,388
    - (2c) What is the February monthly sales? $487,364
    - (3b) What is the total sales for region 2? $1,277,842
    - (3c) What is the total sales for region 4? $1,550,113
    - (4b) What is the December sales for region 1? $94,646
    - (4c) What is the April sales for region 4? $134,443
3. **Solution: Go to SEC EDGAR (https://www.sec.gov/edgar/searchedgar/companysearch.html) and download the 2017 10-K (dated 02-27-2018) for IBM (Ticker Symbol) = IBM**
    - (2) 2005
    - (3a) What is the net income for 2017 in $ millions? $ 5,753 million
    - (3b) What is the total assets for 2017 in $ millions? 125,356 million
4. **Solution: Go to Yahoo! Finance (https://finance.yahoo.com/) and search the symbol for the NASDAQ Composite (^IXIC). Click on Historical Data and find the close price between November 8, 2017 and November 7, 2018.**

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- (2) What was the adjusted close price for the NASDAQ Composite on November 8, 2017? $6,789.12
- (3) What was the adjusted close price for the NASDAQ Composite on November 7, 2018? 7,570.75

Lab 2-1 Solution

1. Take a screenshot of the top 20 rows listing the total amount due by customer (from the PivotTable), and label it "Lab 2-1 Submission 1.jpg."
2. Take a screenshot of eBay's invoices due, and label it "Lab 2-1 Submission 2.jpg."

Lab 2-1 Submission 1 Screenshot: Summarize the accounts receivable by customer. Show the pivot table for the first 20 lines.

Customer Name	Total Amount Due
3M	$4,129.38
Adidas	$1,506.60
Amazon.com	$1,174.63
American Express	$1,480.77
Apple Inc.	$2,119.33
AT&T	$1,195.78
Audi	$2,198.22
Avon	$1,160.37
Beko	$4,595.20
Blackberry	$2,721.64
BMW	$2,196.83
Bucci	$3,766.92
Burberry	$1,570.62
Canon	$3,070.51
Caterpillar Inc.	$1,911.50
Chase	$1,692.45
Citigroup	$3,774.45
Coca-Cola	$2,425.09
Corona	$2,210.46
Credit Suisse	$1,351.58
Deere & Company	$1,517.84

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Lab 2-1 Submission 2 Screenshot: Invoices owed by eBay

Customer	InvoiceAmount	Due Date	Days Past Due
eBay	1036.24	10/21/21	71
eBay	406.6	9/29/21	93
eBay	522.79	11/17/21	44
eBay	834.76	12/13/21	18
eBay	1180.65	8/24/21	129
eBay	481.84	8/10/21	143

Lab 2-1 MC Questions

1. Which customer owes $700.04?
   - **a. SAP**
   - b. Pizza Hut
   - c. Smirnoff
   - d. Nokia
2. How many invoices does Siemens AG have?
   - **a. 4**
   - b. 3
   - c. 2
   - d. 1
3. What is the amount of Porsche's oldest invoice (most days past due)?
   - **a. $1,440.03**
   - b. $1,309.85
   - c. $1,461.73
   - d. $890.02
4. How many days late is General Electric's newest invoice (least days past due)?
   - **a. 46**
   - b. 72
   - c. 102
   - d. 33
5. How many invoices does Zara have included in the accounts receivables?
   - **a. 2**
   - b. 1
   - c. 3
   - d. 0

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Lab 2-1 Alt

1. Take a screenshot of the top 20 rows listing the total amount due by customer (from the PivotTable), and label it "Lab 2-1 Alt Submission 1.jpg."
2. Take a screenshot of Thai Tap invoices due, and label it "Lab 2-1 Alt Submission 2.jpg."

Lab 2-1 Alt Submission 1 Screenshot: Summarize the accounts receivable by customer. Show the pivot table for the first 20 lines.

Customer Name	Total Amount Due
Pita Pan	$5,106.87
Planet of the Grapes	$4,773.33
We Fry it All	$5,190.30
Taste of Thai	$4,163.56
Brewed Miracles	$4,804.51
One in a Million	$5,227.06
Tequila Taste	$5,156.13
The Godfather	$4,827.68
Soup 'r Salad	$3,011.59
Thai Tap	$5,077.93
Wok Delight	$5,107.25
Grandma's Greasy Spoon	$3,935.20
Grand Total	**$56,381.41**

Lab 2-1 Alt Submission 2 Screenshot: Take a screenshot of Thai Tap invoices due, and label it "Lab 2-1 Alt Submission 2.jpg."

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Customer	InvoiceAmount	Due Date	Days Past Due
Thai Tap	480.75	12/20/2021	11
Thai Tap	340.4	12/13/2021	18
Thai Tap	471.92	11/27/2021	34
Thai Tap	232.33	11/26/2021	35
Thai Tap	319.79	11/16/2021	45
Thai Tap	450.57	11/11/2021	50
Thai Tap	116.37	10/24/2021	68
Thai Tap	365.47	10/23/2021	69
Thai Tap	76.99	10/16/2021	76
Thai Tap	282.43	10/9/2021	83
Thai Tap	137.21	9/30/2021	92
Thai Tap	419.99	9/28/2021	94
Thai Tap	265.42	9/4/2021	118
Thai Tap	170.13	9/1/2021	121
Thai Tap	97.89	8/29/2021	124
Thai Tap	207.96	8/28/2021	125
Thai Tap	393.55	8/24/2021	129
Thai Tap	248.76	8/23/2021	130

Lab 2-1 Alt MC Questions

1. To get the pivot table summarizing invoice amounts by customer, the pivot table should have which specifications?
    a. **Rows: [Customer]; ΣValues: [Invoice Amount]**
    b. Rows: [Invoice Amount]; ΣValues: [Customer]
    c. Rows: [Days Late]; ΣValues: [Customer]
    d. Rows: [Customer]; ΣValues: [Days Late]
2. What are the total receivables due for the customer Wok Delight?
    a. **$5,107.25**
    b. $7,732.45
    c. $4,499.08
    d. $3,958.44
3. Which customer owes $3,935.20?
    a. **Grandma's Greasy Spoon**
    b. The Godfather
    c. Soup 'r Salad
    d. We Fry it All
4. How many detailed invoices does Thai Tap have?
    a. **18**
    b. 17

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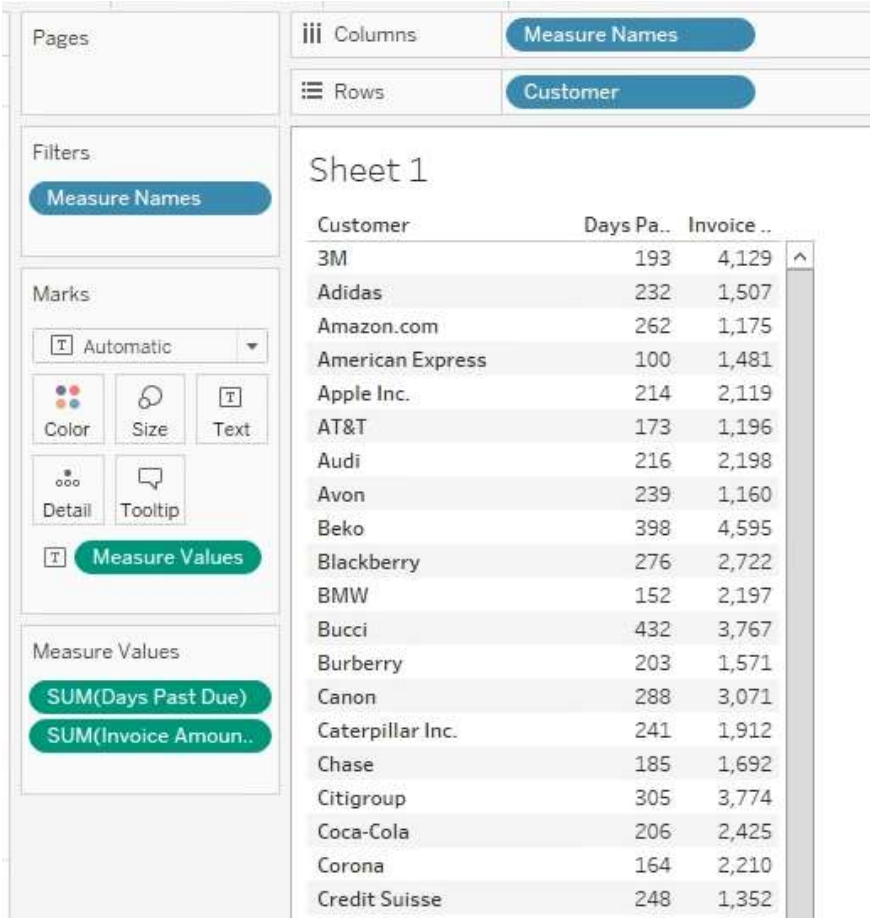
c. 20
d. 21

5. What is the due date of the earliest invoice (most days past due) for Thai Tap included?
   a. 8/23/21
   b. 8/24/21
   c. 9/4/21
   d. 8/21/21

Lab 2-2 Solution

1. Take a screenshot of the top 20 rows listing the total amount due by customer (from the PivotTable), and label it "Lab 2-2 Submission 1 Tableau.jpg".
2. Take a screenshot of eBay's invoices due, and label it "Lab 2-2 Submission 2 Tableau.jpg".

Lab 2-2 Submission 1 Tableau Screenshot: Take a screenshot of the top 20 rows listing the total amount due by customer and label it "Lab 2-2 Submission 1 Tableau.jpg".



Customer	Days Pa..	Invoice ..
3M	193	4,129
Adidas	232	1,507
Amazon.com	262	1,175
American Express	100	1,481
Apple Inc.	214	2,119
AT&T	173	1,196
Audi	216	2,198
Avon	239	1,160
Beko	398	4,595
Blackberry	276	2,722
BMW	152	2,197
Bucci	432	3,767
Burberry	203	1,571
Canon	288	3,071
Caterpillar Inc.	241	1,912
Chase	185	1,692
Citigroup	305	3,774
Coca-Cola	206	2,425
Corona	164	2,210
Credit Suisse	248	1,352

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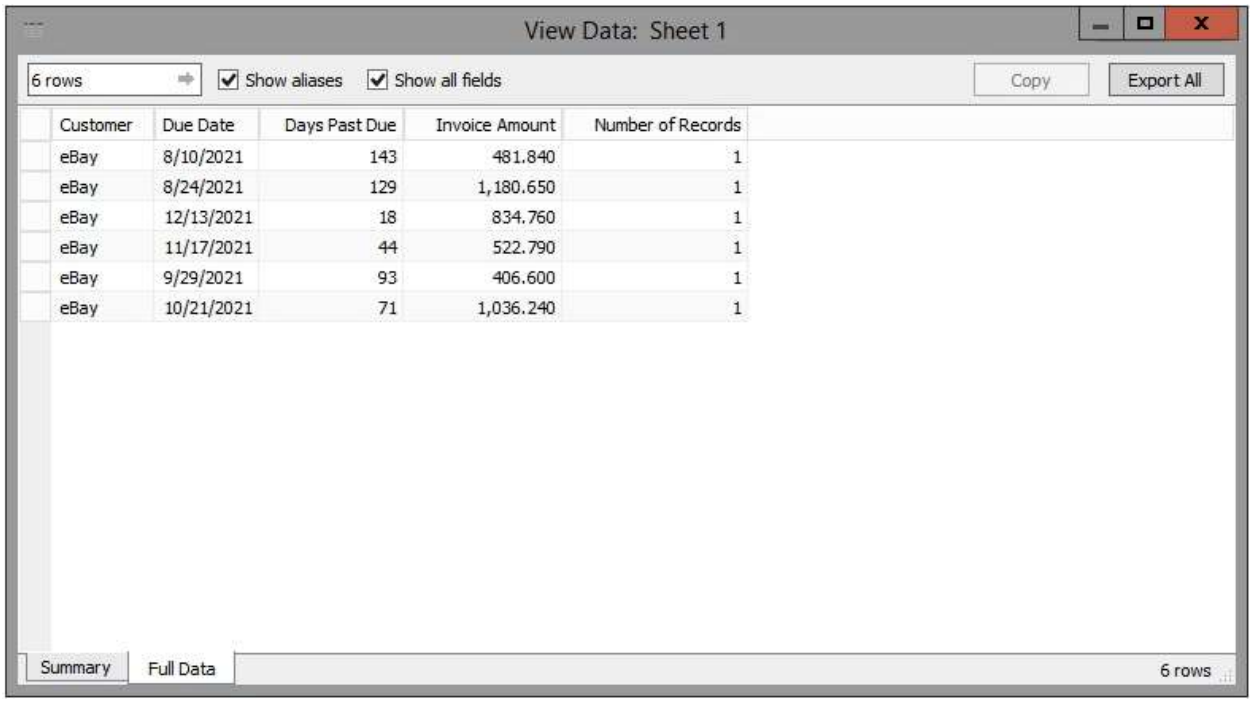
Lab 2-2 Submission 2 Tableau Screenshot: Take a screenshot of eBay's invoices due, and label it "Lab 2-2 Submission 2 Tableau.jpg".



Customer	Due Date	Days Past Due	Invoice Amount	Number of Records
eBay	8/10/2021	143	481.840	1
eBay	8/24/2021	129	1,180.650	1
eBay	12/13/2021	18	834.760	1
eBay	11/17/2021	44	522.790	1
eBay	9/29/2021	93	406.600	1
eBay	10/21/2021	71	1,036.240	1

Lab 2-2 Multiple Choice Questions

1. What is the grand total amount owed in past due invoices for IBM?
    a. 327
    b. 2,148
    c. 187
    d. 2,425
2. How many days late is Honda Motor Company's oldest invoice (most days past due)?
    a. 84
    b. 121
    c. 419
    d. 720
3. How many invoices does Honda Motor Company have past due?
    a. 1
    b. 2
    c. 3
    d. 4
4. Which customer has the highest balance past due?

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a. General Electric
b. Pizza Hut
c. Bucci
d. Porsche

5. Which customer owes $2,452?
   a. Shell Oil Company
   b. IBM
   c. Google
   d. Beko

Lab 2-2 Alt Solution

Take a screenshot of the top 20 rows listing the total amount due by customer and label it "Lab 2-2 Alt Submission 1 Tableau.jpg".

1. Take a screenshot of Thai Tap's invoices due and label it "Lab 2-2 Alt Submission 2 Tableau.jpg".
2. Answer the multiple choice questions.

Lab 2-2 Alt Submission 1 Tableau Screenshot: Take a screenshot of the rows listing the total amount due by customer and label it "Lab 2-2 Submission 1 Tableau.jpg".

Customer	Days ..	Invoic..
Brewed Miracles	1,393	4,805
Grandma's Greasy S..	1,318	3,935
One in a Million	1,517	5,227
Pita Pan	1,553	5,107
Planet of the Grapes	1,202	4,773
Soup 'r Salad	978	3,012
Taste of Thai	1,288	4,164
Tequila Taste	1,693	5,156
Thai Tap	1,422	5,078
The Godfather	1,424	4,828
We Fry it All	1,699	5,190
Wok Delight	1,516	5,107

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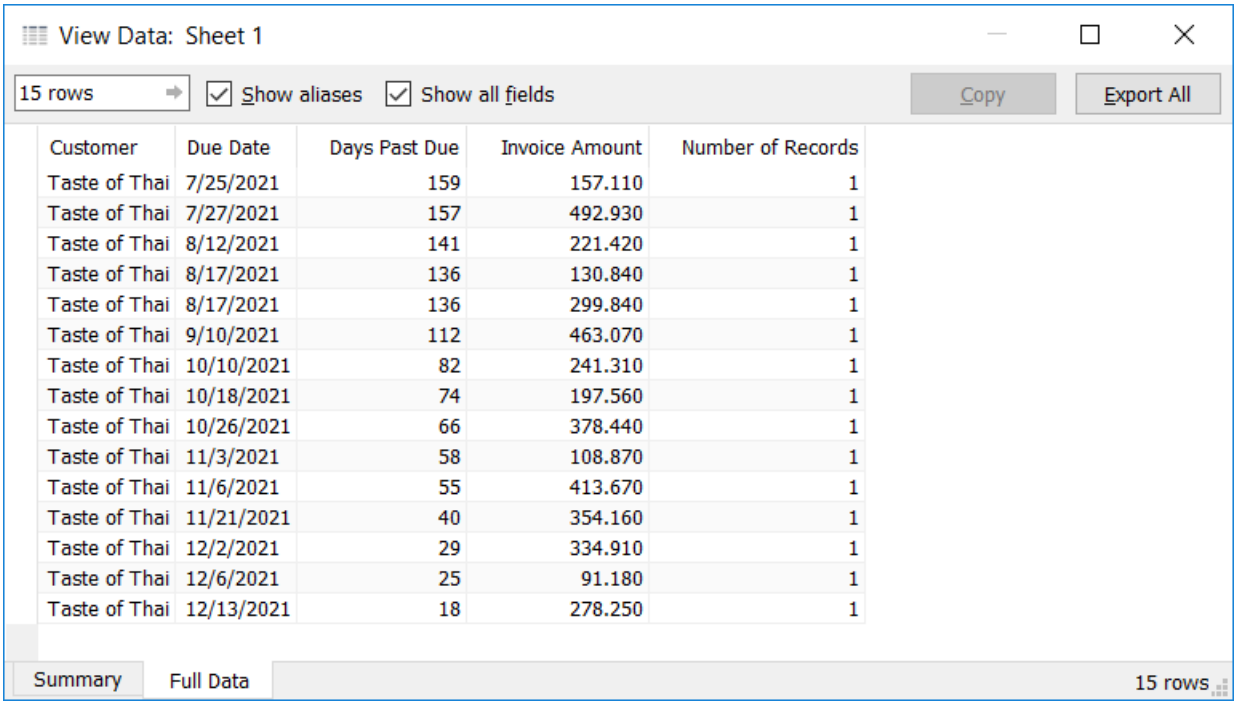
Lab 2-2 Alt Submission 1 Tableau Screenshot: Take a screenshot of Taste of Thai's invoices due, and label it "Lab 2-2 Submission 2 Tableau.jpg".



Customer	Due Date	Days Past Due	Invoice Amount	Number of Records
Taste of Thai	7/25/2021	159	157.110	1
Taste of Thai	7/27/2021	157	492.930	1
Taste of Thai	8/12/2021	141	221.420	1
Taste of Thai	8/17/2021	136	130.840	1
Taste of Thai	8/17/2021	136	299.840	1
Taste of Thai	9/10/2021	112	463.070	1
Taste of Thai	10/10/2021	82	241.310	1
Taste of Thai	10/18/2021	74	197.560	1
Taste of Thai	10/26/2021	66	378.440	1
Taste of Thai	11/3/2021	58	108.870	1
Taste of Thai	11/6/2021	55	413.670	1
Taste of Thai	11/21/2021	40	354.160	1
Taste of Thai	12/2/2021	29	334.910	1
Taste of Thai	12/6/2021	25	91.180	1
Taste of Thai	12/13/2021	18	278.250	1

Lab 2-2 Alt Multiple Choice Questions

1. What is the grand total amount owed in past due invoices for Brewed Miracles?
    a. 1,393
    b. 4,805
    c. 187
    d. 5,078
2. How many days late is Grandma's Greasy Spoon's oldest invoice (most days past due)?
    a. 84
    b. 159
    c. 419
    d. 720
3. How many invoices does Pita Pan have past due?
    a. 10
    b. 18
    c. 5
    d. 4

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4. Which customer has the highest balance past due?
    a. Planet of the Grapes
    b. Grandma's Greasy Spoon
    c. One in a Million
    d. Pita Pan
5. Which customer owes $5,156?
    a. Tequila Taste
    b. Thai Tap
    c. The Godfather
    d. We Fry it All

Lab 2-3 Solution

Lab 2-3 Submission Screenshot: Take a screenshot of your pivot table and label it "Lab 2-3 Alt Submission.jpg".

	A	B
1		
2		
3	**Customer Number**	**Sum of Gross Margin**
4	2047	357.7
5	2088	212.23
6	2072	139.01
7	2081	137.78
8	2100	135.47
9	2060	118.74
10	2064	115.33
11	2087	114.85
12	2046	114.29
13	2086	107.41
14	2024	104.78
15	2063	96.45
16	2031	81.81
17	2018	76.79
18	2051	69.83
19	2032	66.62
20	2021	64.64
21	2079	64
22	2099	58.56

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Lab 2-3 Multiple Choice Questions

1. Which customer number is the most profitable with $357.70 in gross margin?
    a. **2047**
    b. 2088
    c. 2072
    d. 2046
2. If we wanted to know total sales by customer, what would we insert into the rows and ΣValues fields respectively?
    a. **Customer #, Sum of Sales**
    b. Invoice #, Sum of Sales
    c. Invoice #, Sum of Gross Margin
    d. Customer #, Sum of Gross Margin
3. If we wanted to know total gross margin by invoice, what would we insert into the rows and ΣValues fields respectively?
    a. **Invoice #, Sum of Gross Margin**
    b. Customer #, Sum of Gross Margin
    c. Customer #, Sum of Sales
    d. Invoice #, Sum of Sales
4. If we wanted to know which invoice had the largest total sales amount, what would we insert into the rows and ΣValues fields respectively?
    a. **Invoice #, Sum of Sales**
    b. Customer #, Sum of Sales
    c. Invoice #, Sum of Gross Margin
    d. Customer #, Sum of Gross Margin
5. If we wanted to know total quantity/pounds for each invoice, what would we insert into the rows and ΣValues fields respectively?
    a. **Invoice #, Sum of Quantity (Pounds)**
    b. Customer #, Sum of Quantity (Pounds)
    c. Quantity (Pounds), Sum of Invoice #
    d. Quantity (Pounds), Sum of Customer #

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Lab 2-3 Alt Solution

Lab 2-3 Alt Submission Screenshot: Take a screenshot of your pivot table and label it "Lab 2-3 Submission.jpg".

Customer #	Sum of Gross Margin
3000	76
3001	212.45
3002	44.77
3003	24.81
3006	212.45
3008	14.89
3009	508.1
3010	164.71
3011	36.48
3013	1100.12
3014	163.72
3015	245.56
3016	327.61
3018	202.43
3020	260.25
3021	97.18
3022	410.41
3025	112.01
3026	295.22
3027	263.82
3029	534.31
3031	264.27

Lab 2-3 Alt Multiple Choice Questions

1. Which customer number made the highest gross margin for Thrustmaster?
    a. **Customer 3013**
    b. Customer 3083
    c. Customer 3055
    d. Customer 3036
2. Which customer bought the least in total sales for Thrustmaster?
    a. **Customer 3008**
    b. Customer 3054
    c. Customer 3090
    d. Customer 3097
3. Which customer bought the most in total sales for Thrustmaster?
    a. **Customer 3013**
    b. Customer 3083

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c. Customer 3055
d. Customer 3036

4. Which invoice number had the highest gross margin for Thrustmaster?
   a. Invoice 8151
   b. Invoice 8133
   c. Invoice 8098
   d. Invoice 8110
5. Which of the following invoice numbers had the lowest total sales for Thrustmaster?
   a. Invoice 8079
   b. Invoice 8012
   c. Invoice 8136
   d. Invoice 8051

Lab 2-4 Solution

Lab 2-4 Submission Screenshot: Take a screenshot of your chart in Tableau, and label it "Lab 2-4 Submission.jpg."

Customer #	
2001	34.9
2006	29.8
2018	76.8
2021	64.6
2023	8.4
2024	104.8
2031	81.8
2032	66.6
2035	12.3
2036	27.3
2038	17.8
2041	47.2
2043	4.8
2044	56.4
2046	114.3
2047	357.7
2048	41.1
2051	69.8
2053	5.7
2055	27.8
2060	118.7
2063	96.5
2064	115.3
2066	34.1
2067	44.9

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Lab 2-4 Multiple Choice Questions

1. Which customer number is the least profitable with $4.80 gross margin?
    a. 2051
    b. 2043
    c. 2024
    d. 2031
2. Which "pill" do you have on the Rows shelf?
    a. Customer #
    b. Gross Margin
    c. Sum(Gross Margin)
    d. Count(Customer #)
3. Which "pill" do you have on the Marks card?
    a. Customer #
    b. Gross Margin
    c. Sum(Gross Margin)
    d. Count(Customer #)
4. What is the gross margin of customer 2070?
    a. 6.6
    b. 11.6
    c. 44.9
    d. 107.4
5. Swap Sum(Gross Margin) for Sum(Sales). What were the total sales for customer 2047?
    a. 948.5
    b. 78.7
    c. 32.9
    d. 357.7

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Lab 2-4 Alt Solution

Lab 2-4 Alt Submission Screenshot: Take a screenshot of your chart in Tableau, and label it "Lab 2-4 Alt Submission.jpg."

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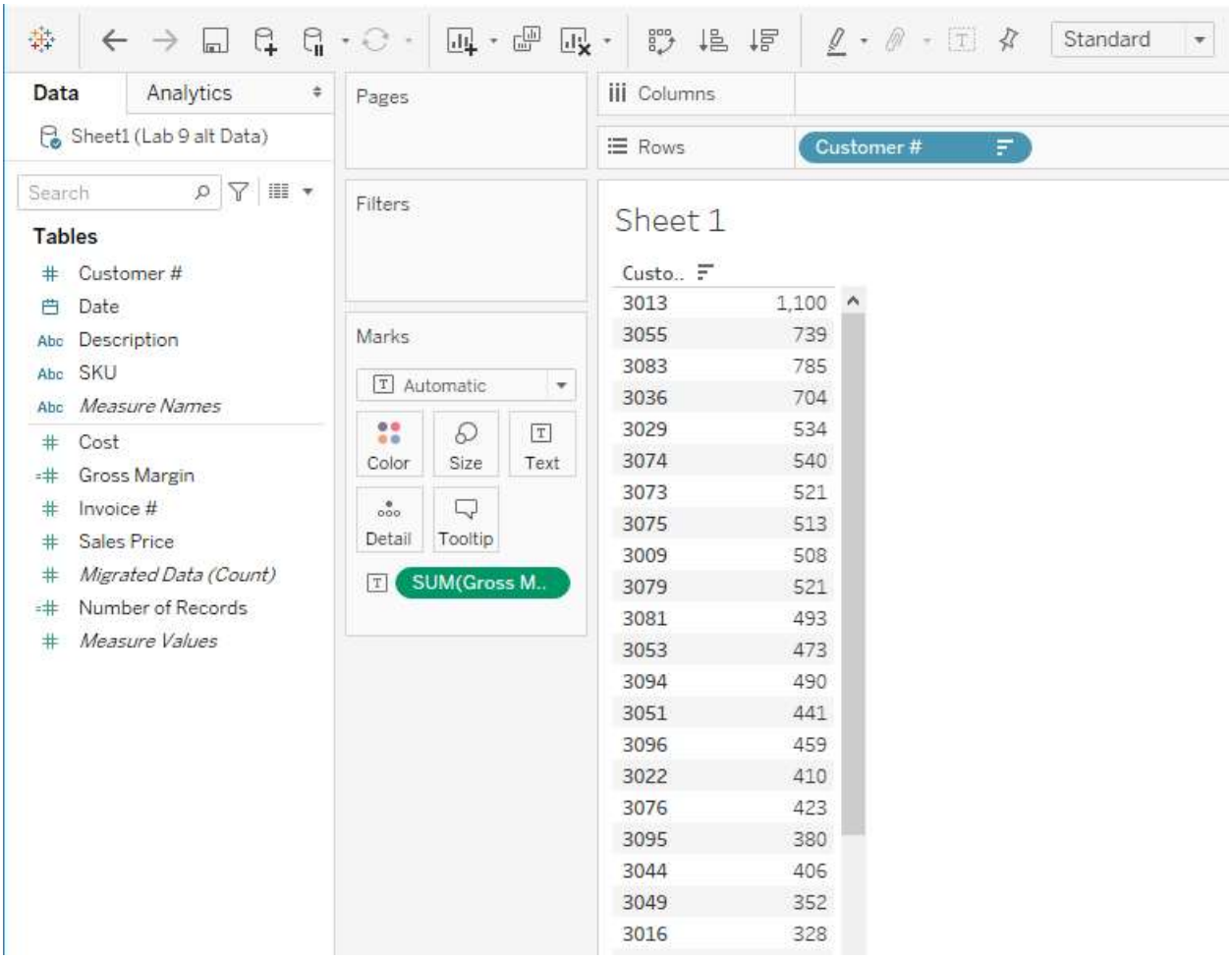

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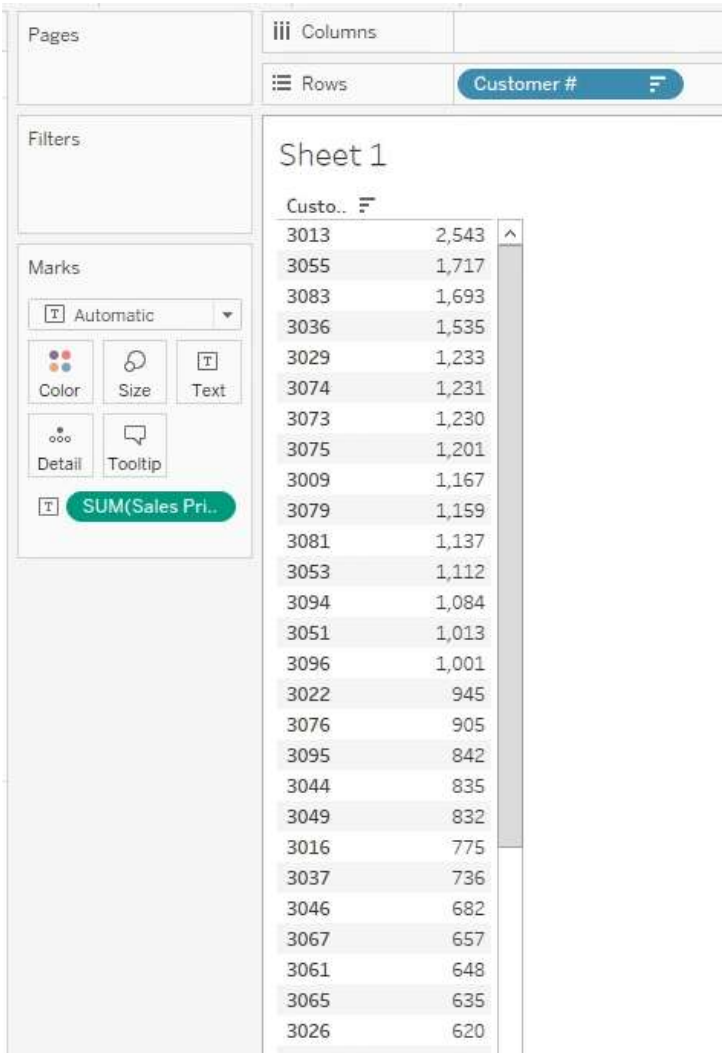

Lab 2-4 Alt Multiple Choice Questions

1. Which customer number is the least profitable with $15 gross margin?
   - **a. 3008**
   - b. 3056
   - c. 3070
   - d. 3013

2. What is the gross margin of customer 3080?
   - a. $204
   - b. $25
   - **c. $137**

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   d. $308
3. Swap SUM(Gross Margin) with Sum(Sales Price). What were the total sales made to customer 3008?
   a. $15.13
   b. $34.65
   c. $17.76
   d. $37.91
4. Which customer had $2,543 in sales for Thrustmaster?
   a. 3013
   b. 3049
   c. 3060
   d. 3008
5. Swap Customer for SKU. Which SKU had the highest sales for Thrustmaster?
   a. WHL-TGT
   b. PED-TPR
   c. PCG-HOW
   d. FLI-USB

Lab 2-5 Solution

Lab 2-5 Submission 1 Screenshot: Take a screenshot of the bins for your histogram and label it "Lab 2-5 Submission 1.jpg".

	A	B
1	*Bins*	*Frequency*
2	0	0
3	0.35	13
4	0.375	21
5	0.4	24
6	0.425	23
7	More	0

Lab 2-5 Submission 2 Screenshot: Take a screenshot of your detailed listing of fruit products sold from the 0.4 to 0.425 gross margin percentage range.

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SKU	Description	Sales Price per Pound	Cost per pound	Gross Margin	Gross Margin Percentage
FRT-SAR	Salal berry	1.12	0.66	0.46	0.411
FRT-REN	Redcurrant	1.42	0.85	0.57	0.401
FRT-AVD	Avocado	1	0.59	0.41	0.410
FRT-PUE	Purple mangos	1.01	0.59	0.42	0.416
FRT-BIT	Bilberty	2	1.17	0.83	0.415
FRT-PLT	Plumcot (or Pl	2.1	1.24	0.86	0.410
FRT-BLN	Blackcurrent	2	1.18	0.82	0.410
FRT-PIL	Pineapple	0.77	0.46	0.31	0.403
FRT-PLM	PlumPrune (dr	1.31	0.77	0.54	0.412
FRT-CUN	Currant	1.75	1.04	0.71	0.406
FRT-PEA	Pear	1.83	1.07	0.76	0.415
FRT-PAY	Papaya	1.06	0.63	0.43	0.406
FRT-CHI	Chico fruit	1.75	1.03	0.72	0.411
FRT-MII	Miracle fruit	2.05	1.2	0.85	0.415
FRT-LOA	Longan	1.85	1.1	0.75	0.405
FRT-LIM	Lime	0.96	0.57	0.39	0.406
FRT-CUE	Cucumber	1.82	1.09	0.73	0.401
FRT-KII	Kiwifruit	2.32	1.37	0.95	0.409
FRT-JAU	Jambul	1.95	1.13	0.82	0.421
FRT-JAI	Jackfruit	0.63	0.37	0.26	0.413
FRT-JAB	Jabuticaba	0.89	0.52	0.37	0.416
FRT-GUV	Guava	0.94	0.56	0.38	0.404
FRT-GRI	GrapeRaisin	1.25	0.74	0.51	0.408

Lab 2-5 Multiple Choice Questions

1. Which product has the highest gross margin percentage?
    a. **Jambul**
    b. Purple Mangos
    c. Jabuticaba
    d. Pear
2. How many products (SKUs) have gross margin percentages in the 0.325 – 0.35 range?
    a. **13**
    b. 24
    c. 23
    d. 21
3. What word do we use to describe the different groupings in a histogram?
    a. **Bins**
    b. Buckets
    c. Ranges
    d. Clusters
4. Which gross margin percentage bin does the FRT-COU SKU fit in?
    a. **0.35 - 0.375**

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b. 0.375 – 0.40
c. 0.325 – 0.35
d. 0.40 – 0.425

5. Which gross margin percentage bin does the Goji Berry product fit in?
   a. 0.35 - 0.375
   b. 0.375 – 0.40
   c. 0.325 – 0.35
   d. 0.40 – 0.425

Lab 2-5 Alt Solution

Lab 2-5 Alt Submission Screenshot 1: Take a screenshot of your histogram and label it "Lab 2-5 Alt Submission 1.jpg".

Bins	*Frequency*
0.425	7
0.45	4
0.475	7
0.5	5
More	0

Lab 2-5 Alt Submission Screenshot 1: Take a screenshot of your detailed listing of fruit products sold from the 0.475 to 0.50 gross margin percentage range and label it "Lab 2-5 Alt Submission 2.jpg".

SKU	Description	Sales Price	Cost	Gross Margin	Gross Margin %
PED-T3A	T3PA Add-On	69.99	36.4	33.59	0.480
PED-T3P	FB T3PA-Pro 3-	129.99	66.14	63.85	0.491
FLI-HOX	T-Flight Hotas)	39.99	20.53	19.46	0.487
COM-FCS	T16000M FCS F	172.35	89.15	83.2	0.483
FLI-HO1	T-Flight Hotas (	59.99	30.17	29.82	0.497

Lab 2-5 Alt Multiple Choice Questions

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1. Which SKU has the highest gross margin percentage?
    a. **FLI-HO1**
    b. COM-FCS
    c. FLI-HOX
    d. PED-T3P
2. Which product description has the lowest gross margin percentage?
    a. **T16000M FCS**
    b. TMX Pro Racing Wheel
    c. T 16000M Space SIM Duo Stick
    d. TWCS Throttle
3. How many products are in the 0.40 to 0.425 bin?
    a. **7**
    b. 4
    c. 5
    d. Cannot be determined
4. Which product has the highest gross margin?
    a. **T-GT Racing Wheel (PS4/PC)**
    b. TPR Pedals - Windows
    c. T16000M FCS
    d. USB Joystick
5. What is the gross margin for SKU PED-T80?
    a. **$42.41**
    b. $63.85
    c. $196.77
    d. $0.446

Lab 2-6 Solution

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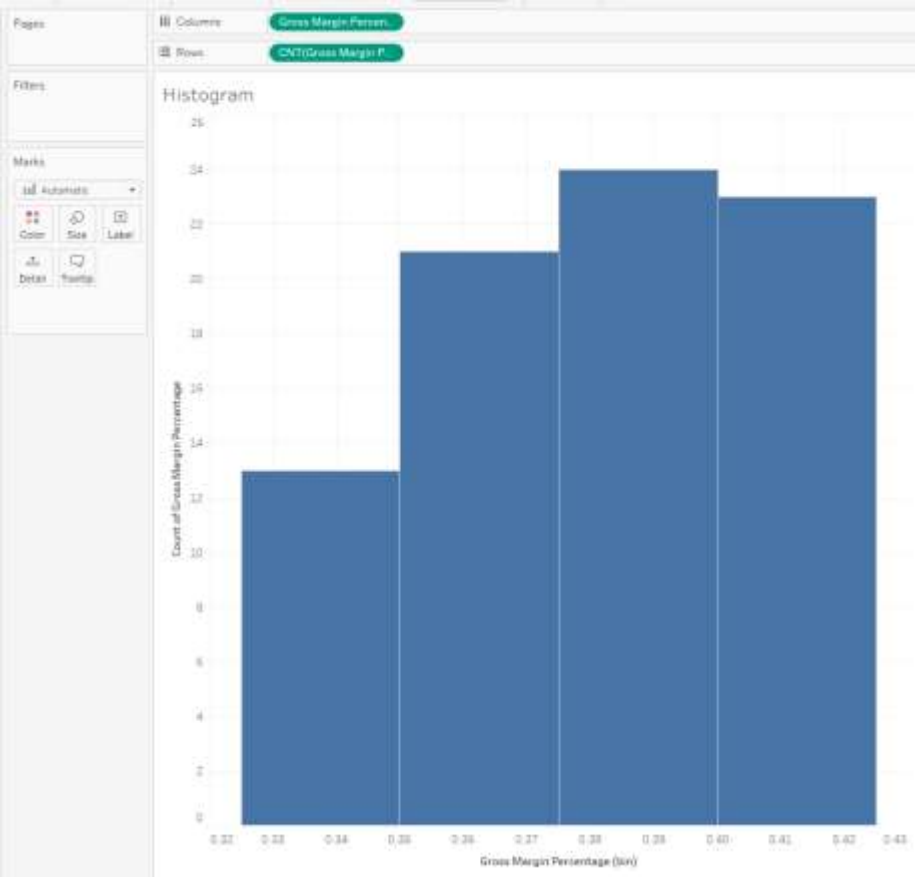
Lab 2-6 Submission 1 Screenshot: Take a screenshot of your histogram, and label it "Lab 2-6 Submission 1 Tableau.jpg".



Lab 2-6 Submission 2 Screenshot: Take a screenshot of your dashboard, and label it "Lab 2-6 Submission 2 Tableau.jpg".

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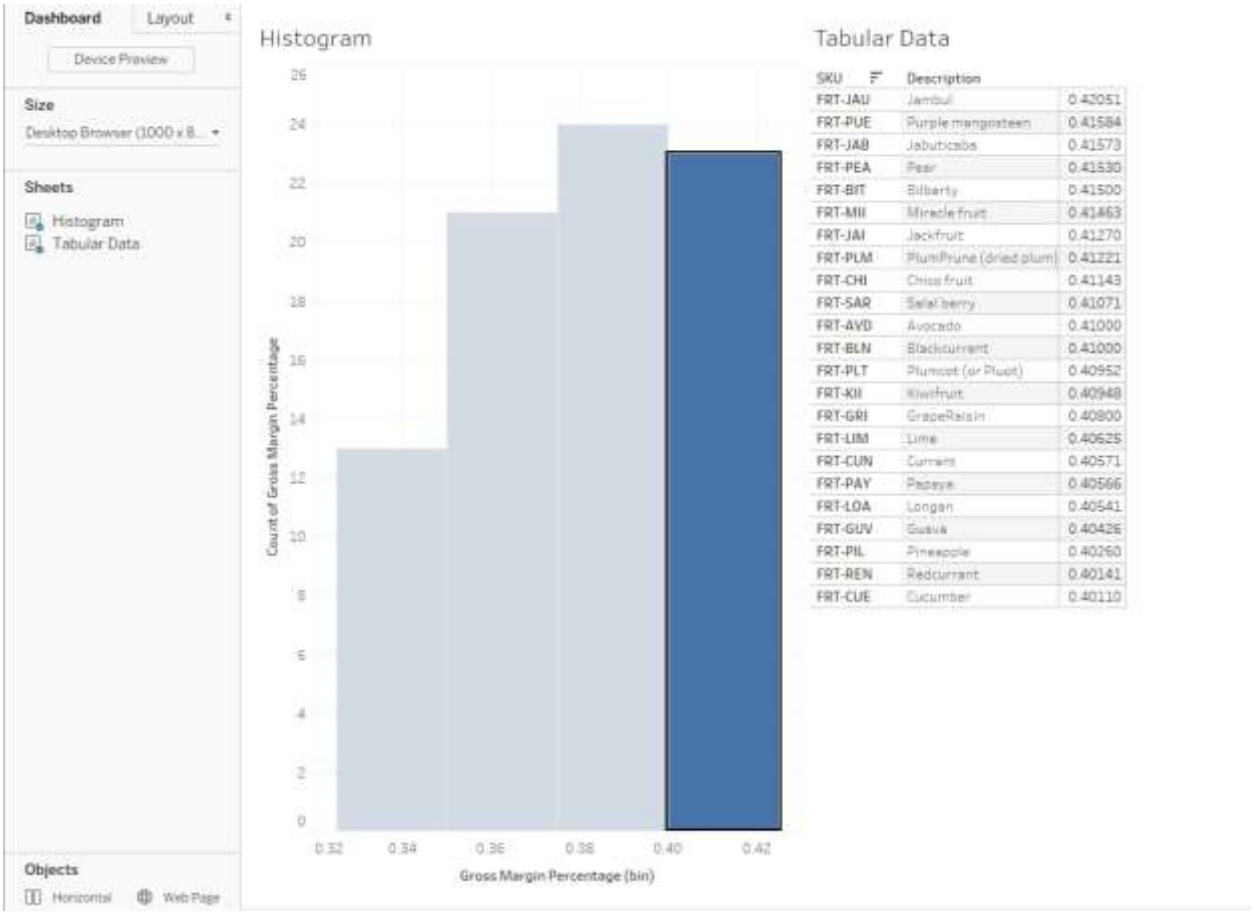

Lab 2-6 Multiple Choice Questions

1. How many SKUs are in the lowest bin?
    a. 10
    b. 13
    c. 7
    d. 18
2. Which SKU has the highest gross margin percentage in the 2nd bin?
    a. FRT-STR Strawberry
    b. FRT-FII Fig
    c. FRT-GOR Goji Berry
    d. FRT-Sam Satsuma
3. What is FRT-CHR Cherry's gross margin percentage?
    a. 0.37714
    b. 0.37600
    c. 0.42000
    d. 0.28910

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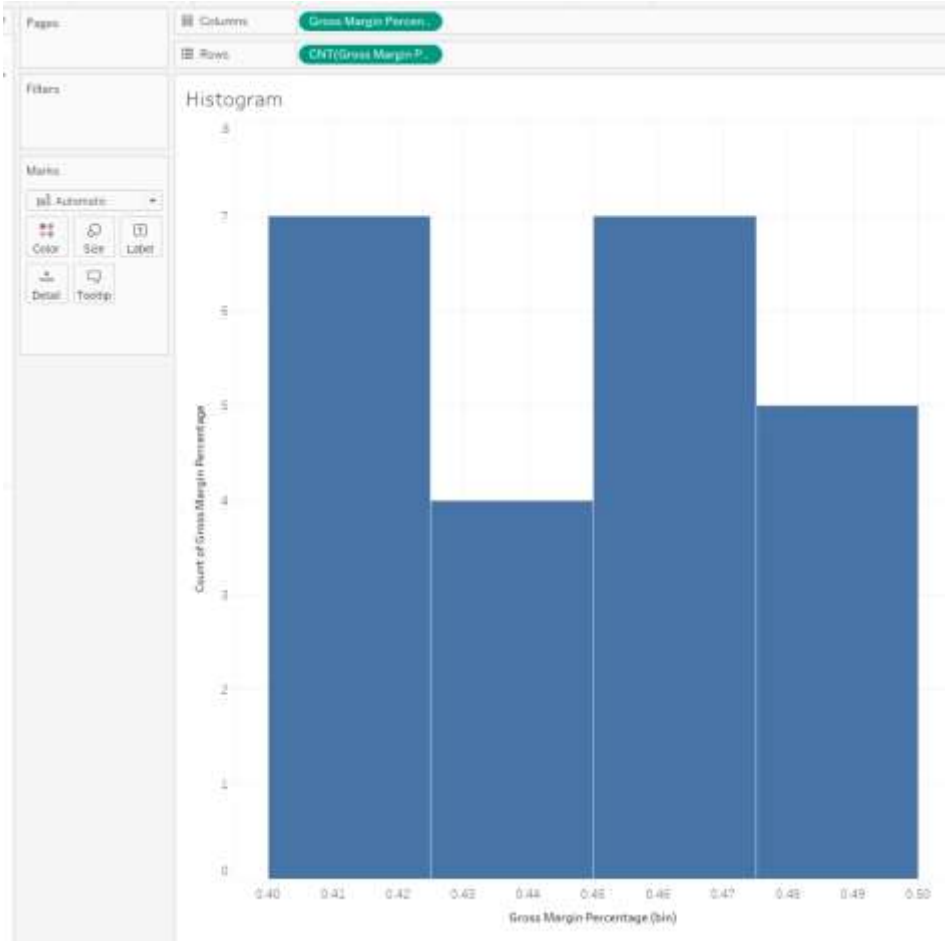
4. How many SKUs are in the highest bin?
    a. 13
    b. 21
    c. 24
    d. 23
5. Which bin has the fewest SKUs?
    a. First bin
    b. Second bin
    c. Third bin
    d. Fourth bin

Lab 2-6 Alt Solution

Lab 2-6 Alt Submission 1 Screenshot: Take a screenshot of your histogram, and label it "Lab 2-6 Alt Submission 1 Tableau.jpg".



Lab 2-6 Alt Submission 2 Screenshot: Take a screenshot of your dashboard, and label it "Lab 2-6 Alt Submission 2 Tableau.jpg".

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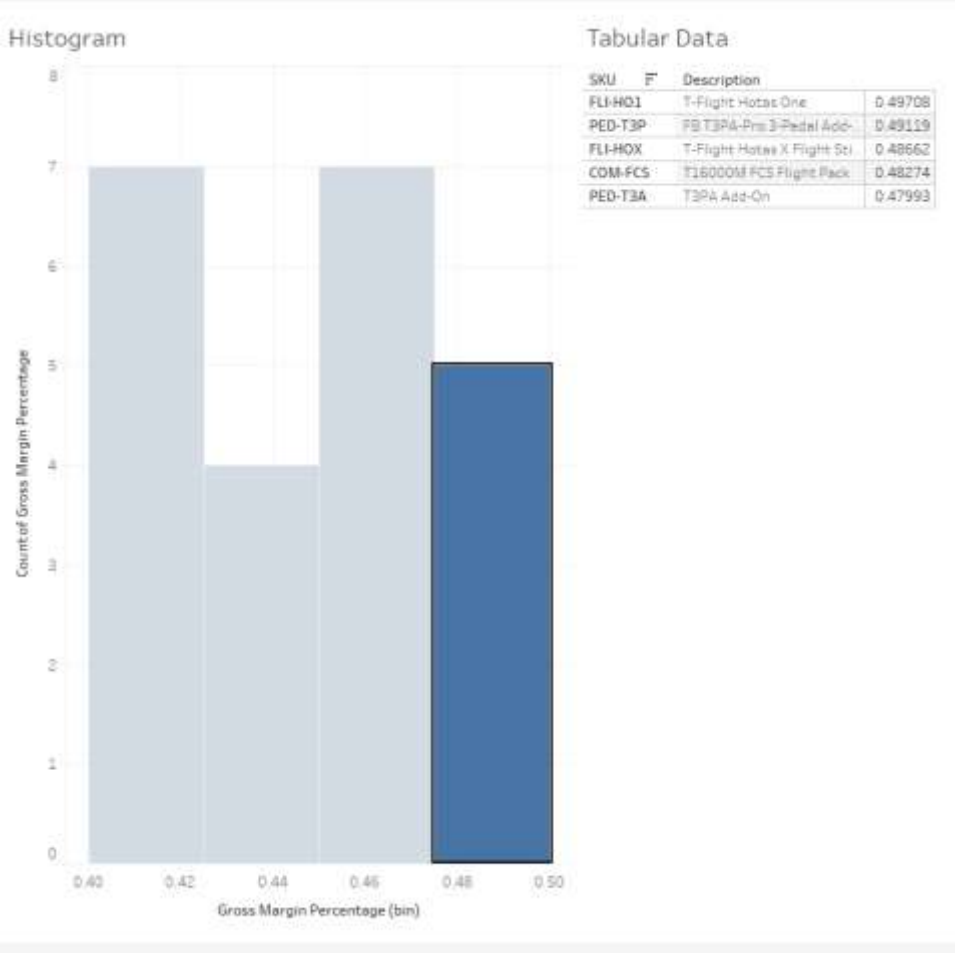

Lab 2-6 Alt Multiple Choice Questions

1. Which SKU has the highest gross margin percentage in the third bin?
    - **a. FLI-STX**
    - b. FLI-USB
    - c. PED-T80
    - d. PCG-HOW
2. What is the gross margin percentage for PCG-HOW Hotas Warthog PC?
    - a. .44647
    - b. .42973
    - c. .42714
    - **d. .42516**
3. Which product has the highest gross margin percentage, overall?
    - **a. FLI-HO1 T-Flight Hotas One**
    - b. PED-T3A T3PA Add-On

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c. COM-FCS T17000M FCS Flight Pack
d. WHL-TGT T-GT Racing Wheel

4. How many SKUs are in the lowest bin?
    a. 3
    b. 4
    c. 5
    d. 6
5. Which bin has the fewest SKUs?
    a. First bin
    b. Second bin
    c. Third bin
    d. Fourth bin

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