ACCTN578 AIS - Power BI Assignment Applying Your Data Analytics Skills to a Real-World Data Set

This is an individual assignment. You may refer to our class notes. However, for this assignment, I will not provide step-by-step instructions.

The case focuses on your ability to use Power BI to conduct analytics and your ability to determine the meaning of findings from data analyses. You will need to be familiar with the basic use of Power BI to make calculations, create columns, create measures, create tables, and create visualizations.

You need to get data from the Excel file *Transactions Data.xlsx* to analyse. There will be no requirement to clean the data. However, you need to check whether or not the data format of each field (i.e. column) makes sense; **if not, change the format to the correct one.**

Case Description

Introduction

John Jumpers Spil Change and Spax an ipsie for Foxpolitentity repeliidwest. He just received an Excel file with all purchase card (P-Card) transactions for the period of 1 April 2017 to 31 March 2 data analytics" seminar where he learned https://eduassistpro.graphore.graph

Purchase Cards: Some Background

Purchase cards, procurement cards, or simply P-Cards, are a payment form used along with cash, checks, ACH, and wire transfers. In a P-Card system, a bank is responsible for issuing the cards and the data processing. The end user, NASDAX in our case, makes monthly payments to the bank. The cardholders, i.e., the employees, do not have any personal liability. However, they need to follow the policies and procedures established by the end user (NASDAX). Figure 1 below shows the different parties involved in a P-Card system and their responsibilities (NAPCP, 2019).

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FIGURE 1: STRUCT https://eduassistpro.github.io/

The following are some generally-recognized ben (Paystream Advisors, 2011 Gchaeve 2004) The pedu assiston

- Reduced processing cost per transaction
- Simplified purchasing and payment processes resulting in lower accounts payable labor cost
- Increased convenience for employees due to fewer reimbursement requests and reduction of personal funds usage
- Higher rebates and incentives from the p-card issuer or administrator
- Expedited purchasing time (from 17.2 days to 4.9 days)
- Improved working capital benefits due to increase in the number of Days Payable Outstanding
- Improved employee morale as employees enjoy perceived control in purchasing
- Vendor pricing negotiation
- Increased efficiency via process automation
- Improved visibility to spending patterns
- Improved reporting capabilities with reduced paperwork load
- Integration into the existing accounting system
- Strengthened relationships with suppliers due to expedited payments

The Data Set

The data set has one table, TRANSACTIONS, which contains all NASDAX's P-Card transactions for the period 1 Aril 2017 to 31 March 2018. The Data Dictionary presented in table 1 describes the different fields (data elements) recorded for each transaction, and thus, the different columns in the TRANSACTIONS table.

TABLE 1: DATA DICTIONARY

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JJ wants you to be awarded specific cochate edu_assist_trapactions. This makes it impossible to create maps for them. You do not need to create any maps. Transactions are divided into two categories: US and INT for international.

Assignment Formats/Types

In this assignment, SIX questions (i.e. problems) are given, and you need to design and implement Power BI dashboards (i.e. report pages) to answer the questions.

For the questions that examples are given, you just need to replicate the examples. You also need to design visualisations by yourself for the questions with no examples.

Where required, you also need to analyse the results (i.e. the information generated by Power BI dashboards) to provide insights that can help with decision making.

PROBLEM 1 (10 Marks)

Type: Example given

DETERMINE THE TOTAL NUMBER OF TRANSACTIONS, THE TOTAL (\$) AMOUNT SPENT, THE AVERAGE (\$) AMOUNT SPENT PER TRANSACTION, AND THE TOTAL NUMBER OF CARDHOLDERS. USE CARDS TO DISPLAY YOUR FINDINGS.

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PROBLEM 2 (10 Marks)

Type: No example

PER MERCHANT CATEGORY, USE A TABLE TO DETERMINE: NUMBER OF TRANSACTIONS, TOTAL EXPENSES (\$AMOUNT), AND AVERAGE (\$) AMOUNT PER TRANSACTION. ORDER THE CATEGORIES FROM HIGH TO LOW (DESCENDING), USING TOTAL EXPENSES.

PROBLEM 3 (15 Marks)

Type: Example given

PROVIDE A LIST (TABLE) OF ALL EMPLOYEES WHO HAVE "RETURN"

TRANSACTIONS (i.e. payment amount is a NEGATIVE number, means "refund" or "payment return") FOR AIRLINE VENDORS (i.e. the Merchant Category is Airlines).

ADD A SECOND TABLE THAT SHOWS THE FOLLOWING INFORMATION FOR EACH OF THE TRANSACTIONS: TRANSACTION NUMBER (T#), MERCHANT, DATE, AND AMOUNT. THE SECOND TABLE WILL ALLOW YOU TO VIEW THE SPECIFIC TRANSACTIONS FOR ANY EMPLOYEES IDENTIFIED IN THE FIRST TABLE.

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PROBLEM 4 (15 Marks)

Type: No example

ASSUME THAT ALL EMPLOYEES HAVE A \$60,000 PCARD LIMIT. LIST ALL EMPLOYEES WHO EXCEEDED THEIR \$60,000 LIMIT FOR THE 2017-2018 FISCAL YEAR (assume the fiscal is 1 April 2017 – 31 March 2018). FOR EACH EMPLOYEE, SHOW THE TOTAL \$ AMOUNT SPENT AND HOW MUCH S/HE EXCEEDED THE LIMIT. SORT THE EMPLOYEES USING THE "OVERSPENT" AMOUNT FROM HIGH TO LOW.

PS. You need to create a simple measure for "OVERSPENT".

PROBLEM 5 (20 Marks)

Type: Example given and Analysis required

PROVIDE A SCATTER CHART TO LINK THE AVERAGE TRANSACTION AMOUNT WITH THE NUMBER OF TRANSACTIONS PER MERCHANT CATEGORY.

ONLY CATEGORIES FOR WHICH THERE ARE AT LEAST 100 TRANSACTIONS ARE INCLUDED. FURTHER, THE COLOR RED INDICATES A CATEGORY WITH A HIGH TOTAL \$ AMOUNT WHILE THE COLOR YELLOW INDICATES A CATEGORY WITH A LOW TOTAL \$ AMOUNT.

DISCUSS AT LEAST **TWO INSIGHTS** PROVIDED BY THE SCATTER CHART.

PS. You need to create a Textbox to write your analysis.

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PROBLEM 6 (30 Marks)

Type: Design your own dashboard and analysis required

WHAT OTHER VALUABLE INSIGHTS CAN YOU GENERATE FROM THE DATA? CREATE AT LEAST FIVE ADDITIONAL VIRULISATIONS IN ONE OR MORE DASHBOARDS. EXPLAIN WHAT YOU DISCOVER WITH YOUR DASHBOARD(S).