Conestoga College

Business Analytics – 1521

INFO 8146 -W24 -Sec5
Diagnostic Analysis
Case Study – 1

Vats Sanghvi (8923105)

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Cover Letter

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Diagnostics Analytics
Conestoga College
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From:

To:

Vats Sanghvi

Team 6

Business Analytics 24-W Section 1

Conestoga College

Doon Campus

Re: Submission of Case study 1 on Call Centre Data set.

Respected Prof Mohamed,

In this case study, I have created an Individual Workbook in which I have created various sheets which I have mentioned below:

- ReadMeFirst
- Deliverables
- Modes
- DS Inspection
- AreaCodes
- Other Data
- Greeters DM
- Places
- CSR DM
- PT Busy-ness

We were expected to extract the data from the Access workbook provided and recognize the foreign keys along with the cell reference using formulas.

Section of the Document:

- Cover Page
- Guided Tour
- Statement of Academic Integrity

Documents Attached:

- PDF Document: CS 1 8923105 Person-3.pdf
 Excel Workbook: CS 1 8923105 Person-3.xlsx
- Master Workbook Team 6.xlsx

Guided Tour

Requirements - 12 to 12.4

Identifying Modes:

The "NY-T-CustServsID" support table was imported into this section from the Access file. This table includes the "Modes" linked to the agent "CSR". After importation, the other columns that were not going to be used were removed, leaving only the "Modes" linked to this agent. The "Vlookup" function was used to generate the headers from the "Modes" file description.

| Note |

Figure: Sample of the Data

The table can be found in CS 1 8923105 Person-3.xlsx,"CSR DM"

Requirements 13 through 13.9:

Create columns for your agent's calculation on each day and shift. This section developed all the formulas pertaining to the agent's occupation. New columns were added at the end of the original table, together with the formulas and supporting information for each one. The field that held the formulas were colored differently than in the original table.

The professor's "Digital PBX Config Dec 4, 2016, + Busy-ness Guidance" document served as an example for developing the formulas.

The columns mentioned below were produced:

- Busy-ness seconds
- Busy-ness HRs
- Year
- Month
- Season
- Weekday
- Calculations

Figure: Calculations Sheet



The table can be found in CS 1 8923105 Person-3.xlsx,"CSR DM"

Requirements 14.8 to 15.1

In this section Pivot tables were created to summarize the occupation times of the "CSR" agent. To carry out this analysis, the table that contained the "Modes" associated with this agent was selected, then the "PivotTable" was created, the year and month were selected as rows and the "Season" as filter. As for the values we have count, minimum, maximum and average for Busy-ness Hrs. Furthermore, I generated 4 pivot tables which were filtered out for each Season number.

Season	1			
Row Labels 💌		-	-	Average of Busy-ness HRs4
□ 2024	143		2.349166667	1.77509324
1	50	1.339166667	2.288611111	1.760738889
2	46	1.44	2.349166667	1.770917874
3	47	1.191111111	2.116388889	1.79445035
Grand Total	143	1.191111111	2.349166667	1.7750932
Season	2			
Row Labels 🔻	Count of Busy-ness HDs	Min of Busy-ness HPs2	May of Rusy-pass HPs3	Average of Busy-ness HRs4
= 2023	_ count of busy-fless fiks	1.115277778	1.865555556	1.45923611
6	48		1.865555556	1.45923611
□ 2024	143	11110277770	2.239444444	1.78709984
	48		2.163611111	
4				1.75118055
5	50	1.0373	2.1533333333	1.77367222
6 Grand Total	45	21.10000000	2.239444444	1.840333333
	191	1.115277778	2.239444444	1.7047047

Pivot Table for Season: 1,2

Season	3	T.		
Row Labels	▼ Count of Busy-ness HI	₹s N	Min of Bus Max of Busy	-ness HRs3
□ 2023	1	44	1.186111	2.23305555
7		47	1.186111	2.23305555
8		50	1.273611	2.18361111
9		47	1.439722	2.00888888
□ 2024		99	1.250278	2.26694444
7		50	1.449444	2.26694444
8		49	1.250278	2.16055555
Grand Total	2	43	1.186111	2.26694444
Season	4	Ţ		
Row Labels	▼ Count of Busy-ness HI	₹s N	Min of Bus Max of Busy	-ness HRs3
□ 2023	1	43	1.259167	2.27111111
10		48	1.304722	2.10611111
11		48	1.259167	2.27111111
12		47	1.491944	2.25888888
Grand Total	1	43	1.259167	2.27111111

Pivot Table for Season: 3,4

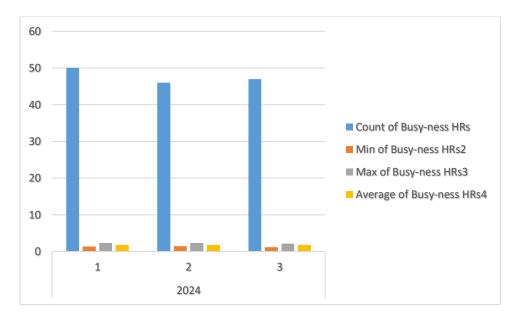


Figure: Chart for Season 1

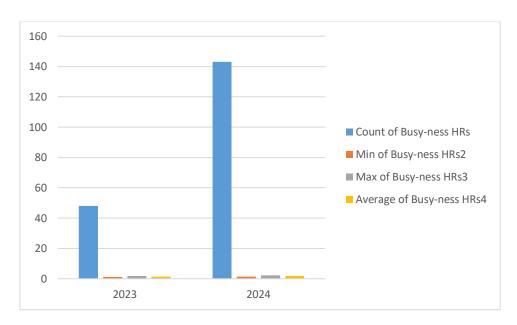


Figure: Chart for Season 2

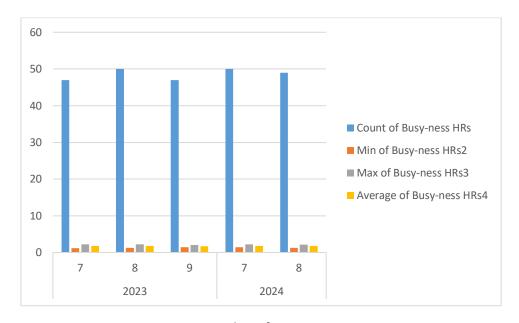


Figure: Chart for Season 3

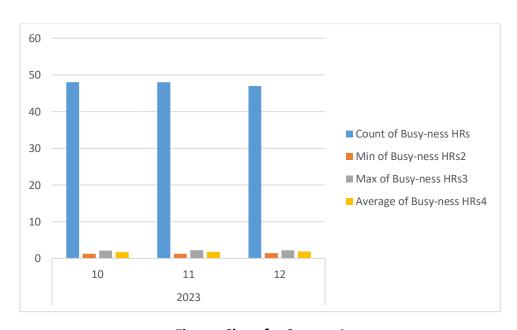


Figure: Chart for Season 4

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Vats Sanghvi - 8923105 Student Name Student ID #

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- I confirm I will not access any unauthorized resources while completing this assessment.

By signing this form, I affirm my agreement to the above statements.

VATS

Student Signature Date

REFRENCES

Library & Learning Services: Academic Integrity: Statement of Commitment. (2024). Conestogac.on.ca. https://lib.conestogac.on.ca/academic-integrity/statement-of-commitment