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| Data Analysis and Visualisation Project  Data Vis and Comms CA – Report | |
| Module code : B8IT107 | |
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# Project Overview

## High Level Description

This document covers the design, implementation and observations on all parts of the March 2020 CA for the Data Visualisation and Communications module (BTIT107).

Brief business description and background…

## Environment Assumptions

Reporting dashboards were developed and presented in PowerBI. A number of EXCEL worksheets build up...

The...

The entire reporting process, with outputs, is described in Section 5 of this document.

To summarise, the key software components used in development of this project were;

* One
* Two
* Notepad++ v7.5.8 (for SQL script development)

## Project Execution Instructions

The project…

# Part 1: Understanding The Business Drivers

## Business Objective

The..

## Subject Area for Analysis

In this assignment I have chosen to focus on an analysis of**..**.

## Primary Goals and Objectives for the Data Visualisations

The ...

## Building Blocks for the Quality Assurance Dashboards

When a..

### Charting Development vs Production Metrics

A..

### KPIs

To start with definitions;

A **Key Performance Question** (KPQ) is a management question that captures what a manager needs to know in order to better understand the performance of the company or organisation.

A **Key Performance Indicator** (KPI) is a measure to provide managers with the most important performance information required to enable them, or their stakeholders, understand the performance of the business.

For this project, I have identified the following KPIs to assist stakeholders in understanding the data visualisations;

**One KPI**

KPI 1: Measures ..

**Two KPI**

KPI 2: Measures ..

### Geographical and Component Data – Pinpoint Focus Areas

This project ..

## Key Stakeholders

The reports produced in this project are...

The key stakeholders for the type of reporting produced in this project are therefore;

* **Senior Management.** The...
* **Mid-level Management.** The...
* **Partners.** The...
* **Employees.** The...

# Part 2: Data Preparation

## Collating Excel Data

The ...

## Preparing the Production Defect Data Extract

The .

# Part 3: Data Ingestion and Manipulation

## Data Ingestion Using PowerBI – Query Builder

The ..

## Data Manipulation in Power BI – Post Query Editor

The..;

# Part 4 : Data Analysis / Visualisation

## Dashboard One Design – Title 1

The..

**Dashboard 1: <Dashboard One Title>**

|  |  |
| --- | --- |
| **Dashboard Component** | **Visualisation** |
| **Tile 1** | … |
| **Tile 2** | .. |
| **Tile 3** | .. |
| **Tile 4** | .. |
| **Tile 5** | .. |
| **Tile 6** | .. |

The first dashboard is a..

### Tile 1.1: <Tile One Description>

This tile..

<screenshot>

#### Purpose of Visualisation

The..

#### Visualisation Process

The..

<screenshot>

#### Why This Type of Visualisation?

The..

#### Relation To Other Tiles in Dashboard.

The..

<screenshot?>

### Tile 1.2: <Tile Two Description>

This tile..

<screenshot>

#### Purpose of Visualisation

The..

#### Visualisation Process

The..

<screenshot>

#### Why This Type of Visualisation?

The..

#### Relation To Other Tiles in Dashboard.

The..

<screenshot?>

### Tile 1.3: <Tile Three Description>

This tile..

<screenshot>

#### Purpose of Visualisation

The..

#### Visualisation Process

The..

<screenshot>

#### Why This Type of Visualisation?

The..

#### Relation To Other Tiles in Dashboard.

The..

<screenshot?>

## Dashboard Two Design – Title 2

The..

**Dashboard 2: <Dashboard One Title>**

|  |  |
| --- | --- |
| **Dashboard Component** | **Visualisation** |
| **Tile 1** | … |
| **Tile 2** | .. |
| **Tile 3** | .. |
| **Tile 4** | .. |
| **Tile 5** | .. |
| **Tile 6** | .. |

The second dashboard is a..

### Tile 2.1: <Tile Two Description>

This tile..

<screenshot>

#### Purpose of Visualisation

The..

#### Visualisation Process

The..

<screenshot>

#### Why This Type of Visualisation?

The..

#### Relation To Other Tiles in Dashboard.

The..

<screenshot?>

### Tile 2.2: <Tile Two Description>

This tile..

<screenshot>

#### Purpose of Visualisation

The..

#### Visualisation Process

The..

<screenshot>

#### Why This Type of Visualisation?

The..

#### Relation To Other Tiles in Dashboard.

The..

<screenshot?>

### Tile 2.3: <Tile Three Description>

This tile..

<screenshot>

#### Purpose of Visualisation

The..

#### Visualisation Process

The..

<screenshot>

#### Why This Type of Visualisation?

The..

#### Relation To Other Tiles in Dashboard.

The..

<screenshot?>

# Conclusions

## Interpretations from the Quality Assurance Visualisations

In the..

## Challenges in the Quality Assurance Data Visualisations

In the..

# Appendices

## Appendix 1 – Appendix Title

In the

# References

## Reference One

The article..