**Data Warehousing Project**

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**Problem Statement – Choosing the best BI tool for Hot Wheels Automobile Care & Spares**

**Requirements for choosing a BI Tool:**

* The company must define clear business objectives during the selection process. This will guarantee that the execution or disappointment dimensions of the task can be adequately estimated.
* Projects where we must compare and select a software are based on the company’s business needs and technical capability. Characterizing an effective business knowledge technique and related undertaking objectives should contain details of the specialized, business and hierarchical parts of the venture.

* If we define the criteria it can mostly simplify the process of choosing a software. It can also help in reducing the time and cost complexity and get better results. It also helps us understand which people from the company would support the product and which people won’t.

Criteria that identify with design, information sources, organization, data transmission, UI, report advancement, execution, user-defined content, planning and analysis should be included when selecting BI tools. When characterizing a task 's prerequisites, individuals and offices should weigh the criteria that are indicated by their needs.

We should know

* what features should be there within the tool
* what features can be used as addons later

Factors which drive the decision-making process here are:

* Personal preferences of project leaders, influential external consultants or enterprise management;
* Software vendors or systems integration companies that are well established within the company;
* The selection process itself prescribes time and budget constraints.

When undertaking objectives have been characterized and necessities recognized and weighted, the real assessment of the BI tool can start.

The evaluation process for the BI Tool has three distinct steps as described below:

1) A general market assessment of the BI tool will distinguish between conceivable and reasonable sellers offering BI tools and using it on a company basis.

2) Once the reasonable merchants are recognized, the sellers are shortlisted based on both the business and the specialized preconditions

To comprehend the assessment procedure, we are contrasting and assessing the accompanying BI Tools to decide the best one based rule, for example, highlights, ease of use and the price.

Requirements to implement the BI tool in the company to solve their problems

* There must be abundant data available from the past such as sales data, returned products and product sales based on type of product to create useful viz.
* All employees must have basic knowledge of computers, graphs and how to use Power BI just to interact with dashboards as needed.
* Controlled access of sensitive information to authorised personnel only.

# TABLEAU

Tableau is an intuitive data visualization product that Christian Chabot, Pat Hanrahan, and Chris Stolte, in Mountain View, California, established in January 2003. The organization currently has its headquarters concentrated on business knowledge in Seattle, Washington, United States. Tableau comes in two versions i.e. Desktop tableau, and web tableau.

From association through coordinated effort, Tableau is the most dominant, secure, and adaptable start to finish examination stage for your information. Lift individuals with the intensity of information. Intended for the individual, yet scaled for the endeavour, Tableau is the main business knowledge stage that transforms your information into bits of knowledge that drive activity.

* Patented technology from Stanford University.
* Toggle view and drag-and-drop.
* List of native data connectors.
* Highlight and filter data.
* Share dashboards.
* Embed dashboards within.
* Mobile-ready dashboards.
* Data notifications.
* Tableau Reader for data viewing.
* Dashboard commenting.
* Automatic updates.
* Security permissions at any level.
* Tableau Public for data sharing.

Remarkable convenience, from this rundown it's considered the best of simple to-use tools. Considering these features, its most useful case is the revelation of organized information through outlines, diagrams, and other types of perception. No other BI tool can make this simpler than tableau, giving its customers the amazing opportunity to visualize data according to their needs

The pricing for tableau per month is listed as below.

* Tableau Desktop Personal, $35
* Tableau Desktop Professional, $70
* Tableau Server, $35
* Tableau Online, $42. Under the old model, a license, with annual maintenance, cost $999 for Desktop Personal and $1,999 for Desktop Professional

# QLIK

Qlik is a product organization established in Lund, Sweden in 1993 and now located in King of Prussia, Pennsylvania, USA whose primary items are QlikView and Qlik Sense, both programming for business knowledge and representation of information.

* Drag-and-drop visualizations.
* Fast and reliable connections to multiple data sources.
* Smart Search feature.
* Data storytelling functionality.
* Access to real-time analytics anytime, anywhere.
* Self-service simplicity.
* Progressive Creation.
* Shared Object Library.
* Ability to create a map from different perspectives and with varying geographic features.
* Connects to enterprise data governance software, or provides integrated data governance features to avoid misuse of data

Qlik view is free whereas QlikSense is $1500 per month

# POWER BI

Power BI is a business intelligence software used for aggregating, analysing, visualizing and sharing data. Data analysts and business intelligence professionals use Power BI to generate data models. It is a product of Microsoft.

Following are the features of Power BI

• The Power BI includes a built-in tool for accessing data from various external sources.

• Multi-platform Works

• Allows users to communicate verbally with the app, using Cortana

• Allows users to integrate PowerBI code and APIs from other software.

• Models and visualizations may change in appearance and external tools may be imported

• Consists of modelling view which allows the user to break data models and display data models according to the user’s choice

Power BI helps connect, transform and clean data and we can generate data models, charts, and graphs to provide visuals of the data. Most of the data inside the company can be exchanged with users. This data it is used to find insights. Power BI provides managers with executive dashboards to provide them more information about divisions. The interface is simple to use and is the easy to drag and drop to create charts.

Power BI has 3 levels of users: Power BI Desktop, Power BI Pro and Power BI Premium. The desktop version is free and the Pro version costs $9.99 per user each month.

**BI TOOL SELECTED**

**POWER BI**

Reasons for choosing Power BI

* Ability to associate with practically any sort of information source, either a physical one or a cloud-based one. Integration with other Microsoft items. Built-in Visual Library is gigantic and offers an extraordinary GUI Last however not the least, it is Microsoft Product which makes it dependable.
* If you're a salesperson on the road meeting with customers, or you're a vacationing CEO and want to get a quick update on sales, Power BI brings the updates to your smartphone or laptop.
* Native apps are designed for iOS (iPhone and iPad), Android, and Windows devices and are available. Wherever you have internet access, you'll be able to instantly view your reports.
* With the Power BI Pro version, you can schedule your data refresh to be daily or even hourly.
* Rather than learning complicated query language, you can type simple sentences to get a quick analysis.

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| Requirements of Hot wheels | Power BI |
| Create sales reports and dashboards so that every employee can view it directly on their mobiles or tablets | Power BI allows you to create interactive dashboards and view them on mobile phones or tablets. |
| Can easily be implemented in the existing computers and devices (mostly Microsoft PCs) | Power BI is a Microsoft product and can be easily integrated into the existing devices without replacing or updating them. |
| Can be easily used by non-IT staff and management without much training. | Power BI has the easiest UI and dashboards are very easy to interact and play with. |

References

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