

Velagapudi Ramakrishna Siddhartha Engineering College

Kanuru, 520001



BUSINESS INTELLIGENCE HOME ASSIGNMENT - 1

Code : 20IT7403 A

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Submitted To :

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Question – 19 :

Customer's growing business, recent acquisitions, and evolving data and analytics landscape (including cloud migration) required a change in how its staff leverages data and derives actionable insights. The existing data analytics setup had too many moving parts; the company's strategy needed an overhaul. Moreover, expectations regarding data and analytics were higher than ever before.

<https://www.infocepts.com/resources/case-studies/accelerated-data-provisioning-improves-time-to-value/>

Solution :

The importance of data and analytics in driving business success has never been higher, and companies that fail to adapt risk falling behind their competitors. In this context, it is not surprising that a growing business, recent acquisitions, and an evolving data and analytics landscape have forced a company to re-examine its data strategy.

One of the key drivers for change is likely the sheer volume of data that modern businesses generate. As more and more aspects of our lives move online, companies are collecting more data than ever before on their customers, their operations, and the wider business environment. This presents both an opportunity and a challenge. On the one hand, data can be a powerful tool for gaining insights into business performance, customer behavior, and market trends. On the other hand, processing, analyzing, and interpreting all this data can be a daunting task.

For a growing business, this challenge is compounded by the need to integrate data from multiple sources. In addition to data generated by its core business operations, the company may also have acquired data from other businesses as part of recent acquisitions. These datasets may be in different formats, stored in different systems, or have different levels of quality. Bringing them together in a coherent way is a significant undertaking.

The evolving data and analytics landscape is also a key driver for change. The move towards cloud computing has revolutionized the way data is stored, processed, and analyzed. The scalability, flexibility, and cost-effectiveness of cloud-based solutions make them an attractive option for many businesses. However, migrating to the cloud is not a straightforward process, and requires careful planning and execution.

All of these factors combine to create an environment where the existing data analytics setup may no longer be fit for purpose. As the company has grown and evolved, its data needs have changed, and its data strategy must adapt accordingly. This means re-evaluating the tools, processes, and skills that the company uses to derive insights from its data.

DataSet

Year of Transaction Date	Quarter of Transaction Date	Month of Transaction Date	Spend Category	Department	Employee Name	Expense Type	Payment Type	Transaction Date	Approval Status
2017	Q3	July	Meal	Sales	Rosie O'Donnell	Lunch	Cash/Out of Pocket	Thursday, July 13, 2017	Approved
2017	Q3	July	Meal	Sales	Rosie O'Donnell	Lunch	Cash/Out of Pocket	Friday, July 14, 2017	Approved
2017	Q3	July	Meal	Sales	Rosie O'Donnell	Lunch	Cash/Out of Pocket	Monday, July 17, 2017	Approved
2017	Q3	July	Meal	Sales	Rosie O'Donnell	Lunch	Cash/Out of Pocket	Tuesday, July 18, 2017	Approved
2017	Q3	July	Meal	Sales	Rosie O'Donnell	Lunch	Cash/Out of Pocket	Wednesday, July 12, 2017	Approved
2017	Q3	July	Meal	Sales	Rosie O'Donnell	Lunch	Cash/Out of Pocket	Sunday, July 9, 2017	Approved
2017	Q3	August	Meal	Sales	Ali Larter	Lunch	Cash/Out of Pocket	Wednesday, August 30, 2017	Approved
2017	Q3	August	Meal	Sales	Ali Larter	Lunch	Cash/Out of Pocket	Sunday, August 27, 2017	Approved
2017	Q3	August	Meal	Sales	Ali Larter	Lunch	Cash/Out of Pocket	Saturday, August 26, 2017	Approved
2017	Q3	August	Meal	Sales	Ali Larter	Lunch	Cash/Out of Pocket	Thursday, August 31, 2017	Approved
2017	Q3	August	Meal	Sales	Ali Larter	Lunch	Cash/Out of Pocket	Wednesday, August 16, 2017	Approved
2017	Q3	August	Meal	Sales	Ali Larter	Lunch	Cash/Out of Pocket	Wednesday, August 23, 2017	Approved
2017	Q3	August	Meal	Sales	Ali Larter	Lunch	Cash/Out of Pocket	Monday, August 28, 2017	Approved
2017	Q3	September	Meal	Sales	Sarah Michelle Gellar	Lunch	Cash/Out of Pocket	Wednesday, September 13, 2017	Approved
2017	Q3	September	Meal	Sales	Sarah Michelle Gellar	Lunch	Cash/Out of Pocket	Saturday, September 16, 2017	Approved
2017	Q3	September	Meal	Sales	Sarah Michelle Gellar	Lunch	Cash/Out of Pocket	Monday, September 18, 2017	Approved
2017	Q3	September	Meal	Sales	Sarah Michelle Gellar	Lunch	Cash/Out of Pocket	Tuesday, September 19, 2017	Approved
2017	Q3	September	Meal	Sales	Sarah Michelle Gellar	Lunch	Cash/Out of Pocket	Saturday, September 23, 2017	Approved
2017	Q3	September	Meal	Sales	Sarah Michelle Gellar	Lunch	Cash/Out of Pocket	Monday, September 18, 2017	Approved
2017	Q3	September	Meal	Sales	Scarlett Johansson	Lunch	Cash/Out of Pocket	Tuesday, September 5, 2017	Approved
2017	Q3	September	Meal	Sales	Scarlett Johansson	Lunch	Cash/Out of Pocket	Friday, September 22, 2017	Approved
2017	Q1	March	Meal	Sales	Scarlett Johansson	Lunch	Cash/Out of Pocket	Monday, March 13, 2017	Approved

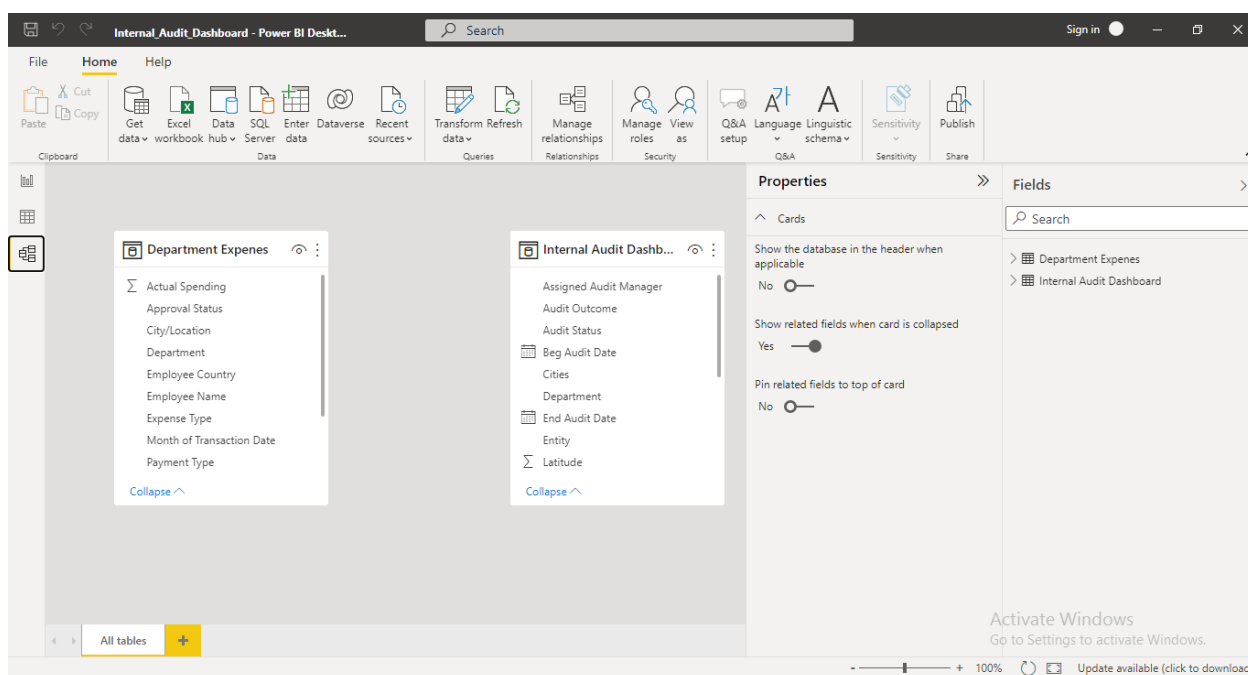
Table: Department Expenses (10,000 rows) Column: Year of Transaction Date (1 distinct values)

A successful data strategy should start with a clear understanding of the company's business objectives. What are the key drivers of value for the business? What are the most important metrics for measuring performance? What are the biggest challenges facing the company? By answering these questions, the company can begin to develop a set of data-driven goals that align with its broader strategy.

Once the goals have been defined, the company can then begin to look at the tools and technologies that it needs to achieve them. This might involve upgrading or replacing existing systems, investing in new analytics platforms, or migrating to the cloud. Whatever the solution, it should be tailored to the specific needs of the business, and take into account factors such as data volume, complexity, and security.

However, technology alone is not enough. The success of a data strategy also depends on having the right people with the right skills. This means hiring or upskilling staff who can work with the latest data tools and technologies, and

Data Tables



who have a deep understanding of the business and its data needs. It also means creating a culture that values data-driven decision-making, and that encourages experimentation, collaboration, and continuous learning.

Finally, a successful data strategy requires a focus on governance and compliance. As the company collects and processes more data, it must ensure that it is doing so in a responsible and ethical way. This means having clear policies and procedures in place for data privacy, security, and management, and ensuring that all staff are trained in these areas.

In conclusion, the growing importance of data and analytics, coupled with a changing business environment, has forced a company to re-evaluate its data strategy. By starting with a clear understanding of business objectives, and then developing a tailored solution that takes into account factors such as data volume, complexity, and security, the company can create a data-driven culture that drives business success. However, this requires not only investing in the right technology, but also in the right people and processes, and a focus on governance and compliance. The result is a data strategy that is fit for purpose, that enables the company to derive actionable insights from its data, and that supports its broader business objectives.

One of the key benefits of a data-driven approach is the ability to make more informed and effective decisions. By analyzing data from different sources, companies can gain a more complete view of their business, their customers, and the wider market. This, in turn, allows them to identify new opportunities, mitigate risks, and make better strategic decisions.

Another key benefit of a data-driven approach is the ability to personalize the customer experience. By collecting and analyzing data on customer behavior and preferences, companies can tailor their products and services to individual customers, improving customer satisfaction and loyalty. This can be particularly valuable in industries such as e-commerce and retail, where the customer experience is a key competitive differentiator.

Finally, a data-driven approach can also help companies to stay ahead of the curve in a rapidly evolving business environment. By analyzing market trends and emerging technologies, companies can identify new opportunities and threats, and adapt their strategy accordingly. This can be particularly valuable in industries such as technology and finance, where disruption is the norm.

In conclusion, the growing importance of data and analytics is forcing companies to re-evaluate their data strategy. By developing a tailored solution that takes into account business objectives, data volume, complexity, and security, and by investing in the right people and processes, companies can create a data-driven culture that supports business success. The benefits of such an approach are clear, including more informed decision-making, personalized customer experiences, and a better ability to adapt to a rapidly changing business environment.

Audit Dashboard

