Course Project – Why Doesn't Your Report Look Right?

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**Course Project – Why Doesn't Your Report Look Right?**

It is regretful that you have found errors in the report David. You are absolutely right that poor data can lead to a wide variety of issues including wrong results. Increase resilience upon network data always introduces new challenges. I wanted the main issues we always need two addresses. Dirty or bad data. This causes missing in your accurate information that resides in abundance and aggregation of data within any organization.

Unfortunately, there all always going to be some underlining issues in data quality. It is an ongoing process that requires full attention and implementation. However, with proper safeguards in place. We can implement a solution that will advert these issues in the future into becoming major problems than could possibly cripple the entire organization (Health, 2006).

Here are some of the main issues bad data can have. Creating a diverse and direct effect to XYZ Healthcare organization are as follows.

* Impacts the quality of care.
* Introduces privacy and other civil liberty concerns.
* Increases costs and inefficiencies.
* Creates liability risks; and Undermines the reliability and benefits of information technology (IT) investments, including the potential to streamline service delivery, accounting, and billing.

As you know these concerns are particularly important in the medical / health industry. Where data problems represent the wrong side of the tremendous potential offered by the adoption of health IT systems. We can establish what the fundamental requirements of good information systems are by outlining the main criteria used to measure good data quality.

**There are 6 main criteria used to measure data quality:**

* **Accuracy:** for whatever data described, it needs to be accurate.
* **Relevancy:** the data should meet the requirements for the intended use.
* **Completeness:** the data should not have missing values or miss data records.
* **Timeliness:** the data should be up to date.
* **Consistency:** the data should have the data format as expected and can be cross reference-able with the same results.
* **Security and privacy:** Data should involve security measures between applications of data sources (Hintopn, 2016)*.*

Given this information I would like to share a case study directly related to your health care industry below. To put in to perspective how we can solve data quality issues.

**Case Study (NZ Health Sector)**

In 2007 the New Zealand (NZ) health sector had to develop an internal framework to handle their bad data issues. The realized they had data quality issues from data allocated and collected since 1996. They found that over 5% of other overall data was poor quality. Costing them on average of upwards 10% loss in revenue (Stockdale, 2007).

They realized that these diverse interlocking data requirements and decisions ensure that health care organizations and their relationships are inherently complex and demanding. Also, that they were all linked to Information Systems which were increasingly information-driven Services.

The current research developed a data quality evaluation framework for the New Zealand health sector to provide data users with extensive data quality information and a consistent assessment tool across the national health information databases and registries That outlined a data quality framework which they implemented.

This framework does a quality analysis on the database what is with data quality criteria check to match any data quality care of characteristics and reference those characteristics to the six data dimensions we discussed above (Stockdale, 2007)*.*

Building this framework, they were able to outline the specific main criteria. They found that the framework facilitated meeting their goals. Playing an important role in solving some very important data issues.

**NZ Health Sector Framework Solutions**

* Quality strategy by outlining the critical quality dimensions to reflect how the organization's data was used.
* Implemented document processes & supporting tools
* **Implement business rules & standard operating procedures**
* Guideline manuals to track level and experience intended users
* Developed application routines to check data consistency reducing data redundancy
* All while involving all stakeholders to ensure common standing and direction of the organization full circle.

While this was a full-fledged application framework applied across the major scale with the major budget. We can use this case study as a guideline of best practices for developing an internal framework for XYZ Healthcare Company. This will assert the value of the quality standards of data and avoid pitfalls and costly implementations caused by bad practices or no practices causing poor data quality.

**10 Recommended safeguards of data qaultiy:**

1. **Focus on the data being expose to customers, regulators, and others outside your organization.** Take a careful look at your system of controls. Not only that the right controls are in place, but that you are actually using them. Also, p**romote information use at the local level, where data is collected** (Greene, 2015)***.***
2. **Define and implement an advanced data quality program.** Making sure data is being handled and proceed into metrics correctly (Guess, 2011)*.*
3. **Include data quality in training to all personal and employees who handle data. Crete internal systems to build on. Also, ensure proper training and systems on new Technologies Incorporated into the organization** (Spotless Data, 2020)***.***
4. **Changes in data collection forms, harmonization of forms ensure that the data being collected is applied to a set of pre-defined metric it can be tested against. This ensures the data being collected and processed will be of value** (Brisaboaa, 2015)***.***
5. **Establish business rules, standard operating procedures, and document control procedures, to ensure the integrity of the data and practice being implemented on a day to day. This might include grading data quality** (Journey to Data Quality, 2006)**.**
6. **Use failure data analytics showing how this data will be used to help the company stay in business** (Cragg, 1994)**.**
7. **Use correct technology infrastructure that will facilitate in being aligned with the core business rules** (Syniti, 2014)***.***
8. **Challenge professionalisms implement agile methods and practices across each department to keep them in collaboration and connected. When departments become self-sufficient, we endure data issue because practice and procedures are not hem same across the board** (Greene, 2015)**.**
9. **Automate process use technology to implement machine learning and AI automated processes to reduce human errors and manual entry information.**
10. **Perform consistent data process audit and utilize gatekeeper roles** (Greene, 2015)**.**

I strongly believe by implementing these safeguards and best practices XYZ Healthcare and reduce overtime the amount of errors and inconsistencies that cause poor data quality.

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