IST722: Class Exercise 9

**This is an individual assignment.**

**Before you begin, please make sure you’ve read and understand 1) our class honor code, 2) course policies on late work and 3) participation policies as posted on the syllabus. “I didn’t know” is not an excuse.**

**You should cite your sources in a standard format like MPA or APA and include a list of works cited.**

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# Instructions (Refer Unit 9)

Answer each of the following questions as concisely as possible. More is not necessarily better. Please justify your answer by citing your sources from the assigned readings from our textbooks, our class lectures, or online if directed to do so. Be sure to cite in text and include a list of works cited. Place your answer below each question. When you’re finished, print out this document and bring it to class as part of your participation grade.

# Questions

[1] Search for “business intelligence without a data warehouse”? How well do you think these products can deliver on this promise?

**It can put a strain on transactional databases, reduce performance and increase loading time by not combing data sources and they can prove less efficient and can lack accessible historical information.**

[2] Summarize the differences between Operational, Tactical, and Strategic BI.

**Operational BI manages daily operations; Tactical BI conducts short-term analysis to achieve strategic goals whereas strategic BI achieves long-term organizational goals.**

[3] What are the 6 categories of Business Intelligence? Give an example of each.

**Reporting + Direct Access Query: Direct access query is Power Users who have access to software and write their own queries. Reporting is presenting information in matrix, charts or tabular.**

**Analytic Applications: Based on DDS which use facts tables and dimensions.**

**Data Mining + Machine Learning: A process of data exploration with the intent to find patterns, relationships or insights with the help of machine learning.**

**Dashboard + Scorecards: Interfaces which provide high-density of information and visual representation of data.**

**Alerts: Notifications to business users that an event has happened.**

**Portals: Provides access to BI and data.**

[4] Explain the terms: OLAP, ROLAP, HOLAP and HOLAP.

**OLAP means Online Analytical Processing; ROLAP means Relational Online Analytical Processing; HOLAP means Hybrid Online Analytical Processing. MOLAP, ROLAP and HOLAP are three main types of OLAP.**

[5] What is the difference between Slicing and Dicing in MOLAP?

**Slice is filtering on one dimension; Dicing is filtering on more than one dimension to make a subset of the cube.**

WORKS CITED:

**Professor Fudge’s slide and video.**