Project Title: *Database Management Current Industry Practices for Safeguarding Medical Personally Identifying Information.*

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Project Problem:

One of the most sensitivetypes of personally identifying information (PII) databases are medical records.  In the digital age it is vital to quickly be able to pull patient data and compare it with other relational databases to determine intelligent disease clusters and anomaly detection.

Therefore it would be highly inefficient to protect patient PII through purely carbon data storage but even with the most sophisticated network security; PII is vulnerable to exposure when it is being pulled by databases and mixed with other datasets.

With a concise analysis of tactics to safeguard medical PII data across database queries, this project seeks to establish a set of best practice procedures for securing personal data through socially responsible data definition and manipulation.

Research Methodology:

Through a combination of scholarly sources and interviews with leading database managers at the University of Utah Health Services, we will create an inclusive, though not wholly comprehensive, analysis of required security measures when querying medically significant datasets that contains PII data.  We will validate these measures with

Work Related Problem:

The University of Utah Health Services which boasts $356 million in grants during the fiscal year 2018 acts as a hospital and clinic while simultaneously functioning as a academic institution. It is vital for their academic institution to both utilize the clinical data gathered and protect the private information of its patients.

Research Plan and Schedule:

Resources Needed: No additional resources have been identified at this time.