Quiz-1 Total = 10pts.

Name\_\_\_\_\_\_\_\_\_Cayden Dunn\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What are the database-related courses that you have taken so far (undergrad or grad) [2pts]

I have taken data base management in undergrad where we used MySQL and PostgreSQL this is the only grad level data base course I have taken

1. Given the set of projects that are stated by the instructor, which topic would you be interested to do your project on? Why (Give two reasons)? [3pts]

Dr. Ghosh and I have already settle on a project he would like me to complete for this class Automated Construction of Malware Families

1. What do you expect to learn from this course? [1pts]

I expect to gleam a deeper understanding of databases as a whole and become more familiar with best practices for data management

1. What are your future goals after you graduate with a masters degree? [1pt]

I am interested in pursuing a career in machine learning

1. Name three database technologies that you have heard (but not learnt) that you would be interested in learning? [3pts]

* Hadoop
* Snowflake
* Vector databases ( probably outside the scope of this course)

2. Give two reasons of using DBMS when compared with File systems. Please be precise in your answer. [2pts]

-DBMS enforce integrity constraints and check whether input data follow predetermined rules

- DBMS protects data from systems failures as well as providing a high level interface to interact with the system as a whole which is more friendly than a traditional file system

3. Does the DBMS contain only the database? [1pt]

No a DBMS doesn't just contain the database. It also includes the software tools needed to define manage retrieve and secure data from a database

4. In case of a power outage, which software handles crash recovery in a database? [1pt]

The DBMS itself handles crash recovery. It uses a component called a transaction log or a write-ahead log to keep track of all changes to the data. In the event of a power outage or system crash this log is used to restore the database to a consistent state