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**Instructions: Do an investigation and answer the following questions with your words.**

1. What is database normalization?

**Is the process of organizing of data from a database.**

1. What is the normalization of databases for?

**To protect data, making it flexible in this way, redundancies and inconsistent dependencies are eliminated.**

1. What are the objectives of normalizing a database?

* **Protect the data integrity**
* **Facilitate the interpretation and access of data**
* **Reduce the complexity and time of reviewing a database**
* **Avoid redundancies**
* **Storage optimization**
* **Reduce data update problems**
* **Prevention of unwanted data deletions**

1. What are normal forms?

**The rules to normalize a database.**

1. Describe the first normal form.

**A table were all key attributes are defined and all others depend on the primary key.**

1. Describe the second normal form.

**When a table is in the first normal form and contains no partial dependencies.**

1. Describe the third normal form.

**A table that it is in the second normal form and does not contain transitive dependencies.**

1. What is a partial dependency?

**When an attribute is partially dependent on a part of a multiple attribute primary key.**

1. What is a transitive dependency? **Is when an attribute is functionally dependent on another non-key attribute.**