**Índice**

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# **Video: History of Database Applications**

[Video](https://youtu.be/-bMiKvZRzwk) for the activity

1. What is the Hierarchical System? What is it about?

A hierarchical system is a way to sort the information using a tree-like structure beginning in the root. It has differents levels. This levels are situated above and below in each one. Was created by IBM in 1960.

1. What are its problems, its drawbacks - regarding queries development and data updates, and programming interfaces?

Was not very flexible to develop new queries also reorganizing new data was impossible. Another drawback it provided only programming language interfaces wich made it spend a lot of time and was expensive in fact.

1. What is a RDBMS?
   * What is the language it arrived with RDBMS

Relational databases was the next way to do databases. The high level query language arrived with the RDBMS.

* What are the advantages of RDBMS compared to the previous systems - Hierarchical?

It can organize data in tables wich can be linked with another table or tables.

It was more easier and quicker to write than the Hierarchical systems. It provides flexibility to develop new queries and can reorganize the new database.

* + How was improved the performance of RDBMS?

Developing new storage and indexing techniques doing better query processing.

1. What are Object Oriented Databases?

Is another way to do database oriented on interchange data between user and database.

* + Mention 3 OO - object oriented - features it incorporated

Large network interconnected computers by WWW.

Users can create HTML documents for do queries to the Web servers

This HTML documents can be linked to another clients or users.

* + Mention 2 uses of these database systems

Engineering design or manufacturing systems.

Scientific applications or storage and retrieval of images, videos, etc.

1. What is the most dominant type of database systems?

Object Oriented

1. What is the relationship between XML and e-Commerce?

Iterchanging data between web applications and databases

For what is XML a primary standard

For interchanging data

1. Mention examples of DB applications

Spacial weather information, storage and retrieve images and videos, daily sales information.

* + What is Data mining?

To analyze large amounts of data.

1. Mention some reasons why the Basic relational database model was not enough the most recent applications of our time

Relational databases are not suitable for recent applications because we need more complex data structures were needed, new data types, new query language and new storage and indexing techniques were required.