



DBMS TOP INTERVIEW QUESTIONS PART 1



 /soumyadip-chowdhury



Mention the different languages present in DBMS

- **DDL(Data Definition Language)** - Consists of commands which are used to define the database.
- **DML(Data Manipulation Language)** - Consists of commands which are used to manipulate the data present in the database.
- **DCL(Data Control Language)** - Consists of commands which deal with the user permissions and controls of the database system.
- **TCL(Transaction Control Language)** - Consist of commands which deal with the transaction of the database.



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Differences between a DBMS and RDBMS?

DBMS : Provides an organized way of managing, retrieving, and storing from a collection of logically related information.

RDBMS : Provides the same as that of DBMS, but it provides relational integrity



What are the advantages of DBMS ?

1. Sharing of Data
2. Integrity Constraints
3. Redundancy Control
4. Data Independence
5. Provide Backup & Recovery Facility



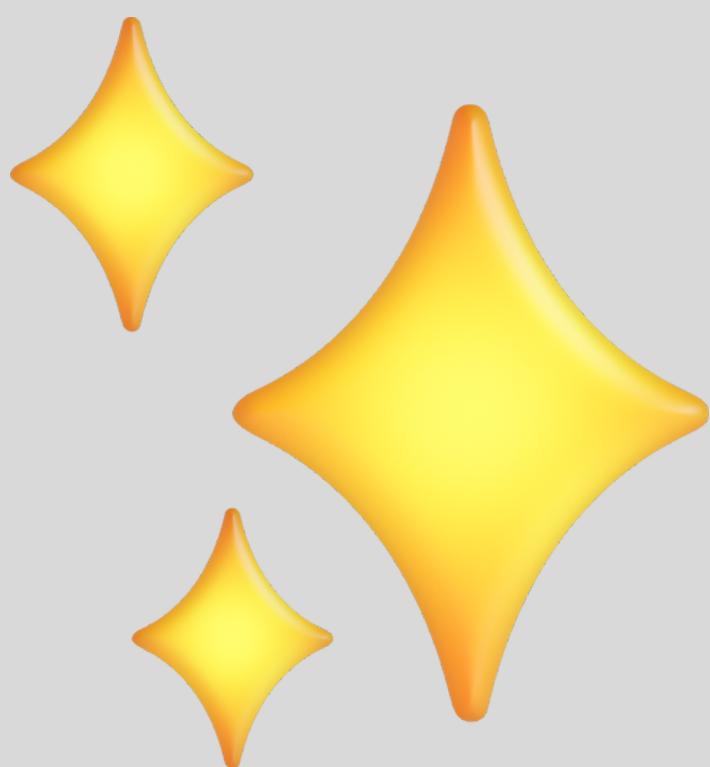
What do you understand by query optimization?

The query optimization phase finds the evaluation strategy with the lowest estimated cost. When there are numerous algorithms and techniques available to do the same objective, this step is necessary.



What are the different levels of abstraction in the DBMS?

- **Physical Level:** It is the lowest level of abstraction and describes how the data is stored.
- **Logical Level:** This is the next level of abstraction after the Physical level. This layer determines what data is stored in the database, and what is the relationship between the data points.
- **View Level:** The View Level is the highest level of abstraction and it describes only a part of the entire database



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What do you understand by the terms Entity, Entity Type, and Entity Set in DBMS?

Entity: An entity is a physical object with attributes, which are nothing more than that object's specific traits. An employee is one type of entity.

Entity Type: An entity type is nothing more than a group of entities with similar characteristics. An entity type often refers to one or more connected tables in a certain database.

Entity Set: In a database, an entity set is a collection of all the entities that belong to a specific entity type.

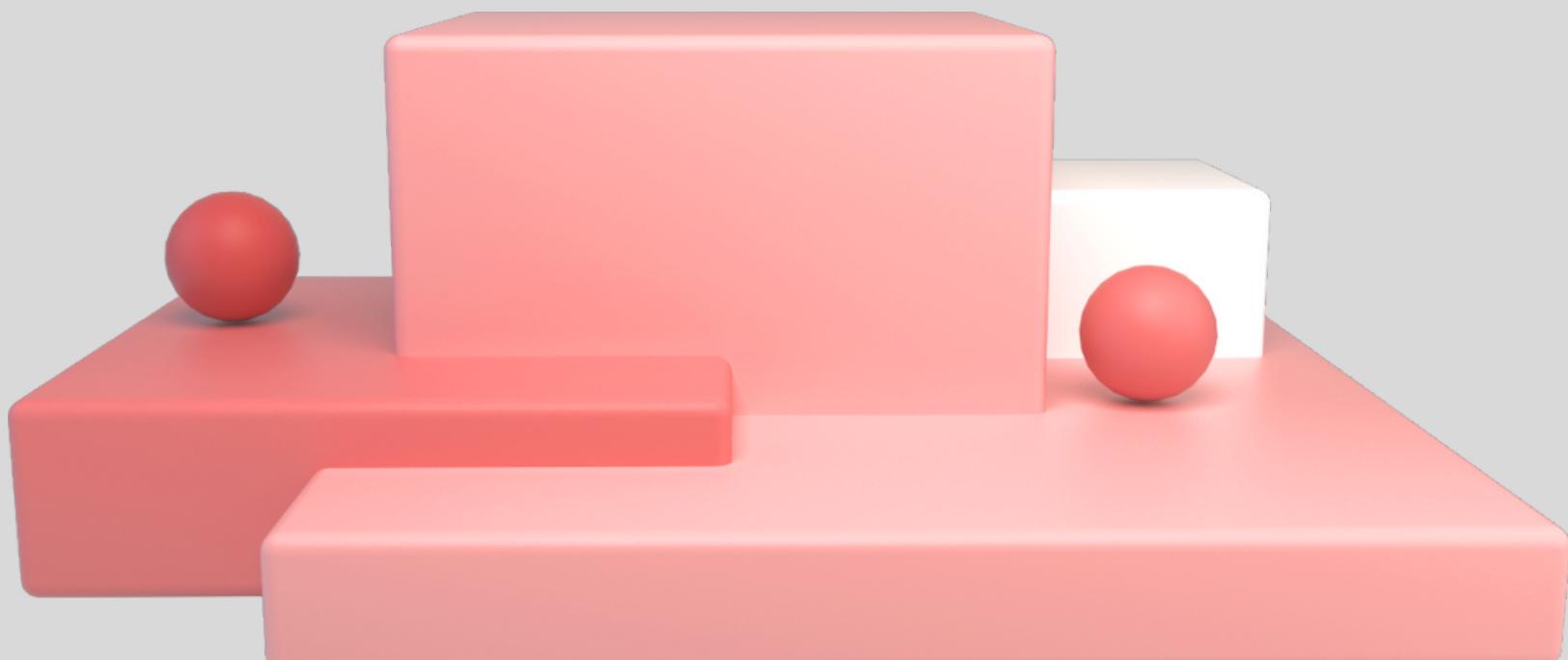


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What is an entity-relationship model?

It is a diagrammatic approach to database architecture in which relationships between real-world things are depicted as entities. This method makes it simple for the DBA team to comprehend the schema.



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What is concurrency control?

This is a method of controlling concurrent database activities to protect the integrity of the database. The two methodologies used in concurrency control are as follows:

an optimistic strategy that uses versioning
Pessimistic strategy - entails locking



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Soumyadip Chowdhury

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