Revise Couse of Data Modelling done on Coursera

<https://www.interviewbit.com/dbms-interview-questions/>

<https://www.geeksforgeeks.org/commonly-asked-dbms-interview-questions/>

<https://www.simplilearn.com/dbms-interview-questions-and-answers-article>

<https://www.javatpoint.com/dbms-interview-questions>

1. Data
2. Database
3. Database Management System
4. **Mention the issues with traditional file-based systems that make DBMS a better choice**
5. **Explain a few advantages of a DBMS over traditional file-based systems**

### **Understand ER Model**

### **What do you understand by Data Model?**

### **Define a Relation Schema and a Relation.**

### **What is a degree of Relation?**

### **What are the three levels of data abstraction?**

### **What is the difference between an entity and an attribute?**

### **How do you know which database model to choose while creating a database?**

### **What are the different levels of data abstraction?**

1. **Explain different languages present in DBMS.**

**DDL , DDL, DCL, TCL**

1. **What is meant by ACID properties in DBMS?**
2. **Are NULL values in a database the same as that of blank space or zero?**
3. **What is Data Warehousing?**
4. **What is meant by an entity-relationship (E-R) model? Explain the terms Entity, Entity Type, and Entity Set in DBMS.**
5. **Explain different types of relationships amongst tables in a DBMS**

**One to One Relationship:**

**One to Many Relationship:**

**Many to Many Relationship**

**Self Referencing Relationship**

### **Explain the difference between the DELETE and TRUNCATE command in a DBMS**

### What is meant by normalization and denormalization?

### Explain different types of Normalization forms in a DBMS.

First, Second, third, bcnf

### Explain different types of keys in a database.

Candidate, Super, Primary, Unique, Alternate, Foreign, Composite

### Explain the difference between a 2-tier and 3-tier architecture in a DBMS

1. **What is the difference between having and where clause?**

### **24. If an attribute doesn’t have any value, would you assign it a blank space, a ZERO or a NULL value?**

### **28. What should you do when you do not have any primary key for a table?**

### **What do you understand by query optimization?**

1. Joins