Day Wise Plan - DBMS

Topics to be covered:

1. Introduction
2. ER Model
3. Relational Model
4. Relational Algebra
5. Functional Dependencies
6. Normalisation
7. SQL
8. Misc

## **Introduction :**

1. [Database Basic](https://codersfield.com/log/database-basics-dbms-1/)
2. [Database Model](https://codersfield.com/log/database-model-dbms-2/)

## **Entity Relationship Model :**

1. [ER Model Basic](https://codersfield.com/log/er-model-part-1/)
2. [Types of Attributes in DBMS with Example ER MODEL](https://codersfield.com/log/types-attributes-dbms-example-er-model-part-2/)
3. [Types of Relationships in ER Diagram](https://codersfield.com/log/types-relationships-er-diagram/)
4. [Relationship Constraints in DBMS](https://codersfield.com/log/relationship-constraints-dbms/)
5. [ER Model Entity](https://codersfield.com/log/er-model-entity-dbms-3/)
6. [Identifying and Non Identifying Relationships](https://codersfield.com/log/identifying-non-identifying-relationships/)
7. [Aggregation, Generalization and Specialization in DBMS](https://codersfield.com/log/aggregation-generalization-and-specialization-in-dbms/)
8. [How to draw ER Diagram](https://codersfield.com/log/draw-er-diagram/)

## **Relational Model :**

1. [Relational Model Introduction](https://codersfield.com/log/relational-model-introduction/)
2. [keys and codd rule in DBMS](https://codersfield.com/log/keys-codd-rule/)
3. [ER Model to Relational Model Mapping](https://codersfield.com/log/er-model-to-relational-model-mapping/)

## **Relational Algebra :**

1. [Introduction](https://codersfield.com/log/relational-algebra-introduction/)
2. [Operators in Relational Algebra](https://codersfield.com/log/operators-relational-algebra/)

## **Functional Dependencies :**

1. [Functional Dependencies Introduction](https://codersfield.com/log/functional-dependencies-introduction/)
2. [Functional Dependency inference rules](https://codersfield.com/log/functional-dependency-inference-rules/)
3. [Closure of Attributes](https://codersfield.com/log/closure-of-attributes/)
4. [Equivalence of Sets of Functional Dependencies](https://codersfield.com/log/equivalence-sets-functional-dependencies/)
5. [Find Super Key From Functional Dependencies](https://codersfield.com/log/find-super-key-functional-dependencies/)
6. [Find Candidate Key using Functional Dependencies](https://codersfield.com/log/find-candidate-key-using-functional-dependencies/)
7. [Minimal Sets of Functional Dependencies](https://codersfield.com/log/minimal-sets-functional-dependencies/)
8. [Prime and Non Prime Attributes in DBMS](https://codersfield.com/log/prime-non-prime-attributes-dbms/)

## **Normalisation :**

1. [Needs of Normalisation](https://codersfield.com/log/needs-of-normalisation/)
2. [1NF – First Normal Form start](https://codersfield.com/log/1st-normal-form/)
3. [2NF – Second Normal Form](https://codersfield.com/log/2nf-second-normal-form/)
4. [3NF – Third Normal Form](https://codersfield.com/log/3nf-third-normal-form/)
5. https://www.geeksforgeeks.org/database-normalization-normal-forms/
6. https://www.geeksforgeeks.org/data-base-dependency-preserving-decomposition/
7. https://www.geeksforgeeks.org/database-management-system-lossless-decomposition/
8. https://www.geeksforgeeks.org/lossless-join-and-dependency-preserving-decomposition/
9. https://www.geeksforgeeks.org/how-to-find-the-highest-normal-form-of-a-relation/start
10. https://www.geeksforgeeks.org/denormalization-in-databases/
11. <https://www.geeksforgeeks.org/dbms-data-replication/>

## **SQL :**

1. https://www.w3schools.com/sql/

## **Misc:**

* 1. <https://www.geeksforgeeks.org/concurrency-control-introduction/>
  2. <https://www.geeksforgeeks.org/acid-properties-in-dbms/>
  3. <https://www.geeksforgeeks.org/indexing-in-databases-set-1/>