Day-59 Task

MongoDB, Data Models & Architecture

1. What are different types of data models in MongoDB? Explain.

➢ Flat schema: It consists of a single, two-dimensional array of data elements. All members of the provided column are assumed to be similar.

➢ Star schema: Data is organized in facts and dimensions, diagrammed by surrounding each fact with its associated dimensions.

➢ Hierarchical schema: Data is organized in a tree-like structure, where each record features a single parent or root.

➢ Relational schema: Data is sorted into tables, also referred to as relations, each of which consists of columns and rows.

➢ Object-relational schema: It allows designers to include objects into the familiar table structure.

2. What are the terminologies used in relational schema?

The following are commonly used terminology in relational schema:

➢ Relation: Table consisting of columns and rows

➢ Attribute: Name of a column in a relation

➢ Domain: Set of acceptable values for one or more attributes
➢ Tuple: A row in a relation

3. What are benefits of object relational Schema?

The benefits of object relational schema are as follows:

➢ Extensibility: You can extend inbuilt features by defining things like data types, user-defined patterns.
➢ Complex types: You can combine user-defined data type to one or more existing data type.
➢ Inheritance: You can define properties existing in another object and can add new properties specific to this object.