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What is the difference between relational data model, object based data model and physical data model?

**Relational data model** – represents data as tables (relations) with rows (tuples) and columns (attributes). It uses primary and foreign keys to define relationships and is managed using SQL.

**Object-Based Data Model** - represents data as objects, similar to Object-Oriented Programming (OOP). It supports classes, inheritance, and encapsulation, allowing complex relationships between objects.

**Physical Data Model** - describes the data in terms of collection of files, indices

and other storage structure.