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HI-I
Fash Mahajan SEIT-B 191061 Roll No - 04 Subject - DBMS
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the Entity adoptionals (ES) data model was
What is data me doyou meanby data modelling?
What is data me doyou nearly data modelling? Discuss different types of data models.
the orbita in an about in the honder word start
I data model is the underlying structure of a
database, it is a collection of conceptual tools for
describing data, data relationship, data.
semantico and consistency constraints.
The different types of data models are:-
- applywhail
D Relational data Model:
The relational model was a collection if tables to refresent both data and the relationships among
represent both data and the relationships among
those data. Johall stay bounded
Each table has multiple columns, and each column
has a unique name Tables are also known as
resolutions and forth attains abouting
Adventages: - : applications and
· d relational data model is simple than
hierarchical and network model
like SQL to avoid complex database navigation.
having to change any application.
having to change any application.

Dis adventages:

• & majeor constraint of relational database is with

large number of tables, machine performance is less.

• Jeigher memory consumption.

2) Entity Relationship Model: -The Estity relationship (E-R) data model was a collection of objects only as estition and relationship among these objects. is distinguishable from other objects ddvartages: -· Better insual representation · Easy conversion to any data model · Effective communication tool lisadiratages:-· finited constraints and spicifications · Delicult to represent data manipulation. 3) Object Based Data Model The object lossed data model is laced on object-oriented programming, associating methods with directs that can benefit from class hierarchies. The object - relational data model extends the relational data model by providing oricher type system, including complere data lypes and object orientation The direct - oriented data model supports diect - oriented type system and allows direct access to the data from an object oriented programming language. ddiartoges: secure of the inharitance property we can se-use the attributed and functionalities.

Disadvartages: -. It is not widely developed and complete to use in database eystems.

34) some-structured data model. The semi-structured data model permits the specification of data where individual data items of same type may have different at of attributes

JSON and Entensible Marky Language CXML) are widely used semi-structured data representations.

advantages:

· The data is not constrained by a fixed schema · It is percible and the schema can be changed easily. · Data is portable

Disadvantages: -

· lack of fined rigid schema · Juries are less efficient.