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Normalization

(Lecture
15, 16)

→ Anomalies

- i) Data Redundance
- ii) Insertion
- iii) Deletion
- iv) Updation

Normalization has three steps:-

- i) First Normal Form
- ii) Second " "
- iii) Third " "

→ What is Functional Dependency?

- In functional dependency, one function is determined and by using it we can find out value of other (which is called dependent).

determined → dependent.

→ What is Partial Dependency?

- We have one known part of Composite primary key and we find out other entities by using it.

Transitive Dependency:-

- We use non primary key attribute to find out the value of other non-primary key attributes.

Properties of Relational Data Model:-

- Smallest unit of table is called cell.
- Every cell has atomic value.
- Each column has different name.
- The value of attributes come from same domain.
- Order of column does not matter.
- Each row should be different.

Steps involved in Normal forms:-

1st Normal Form:-

- Remove Multi-value attribute.
- Re-develop primary key.
- Identify partial and Transitive Dependency.

2nd Normal Form:-

- Find partial dependency and draw its table.

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