



SNS COLLEGE OF ENGINEERING



Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

**COURSE NAME : 23ITB204-MODERN DATABASE
MANAGEMENT SYSTEMS**

II YEAR / III SEMESTER

Unit 1- Relational Databases

Topic 5 : Relational Database

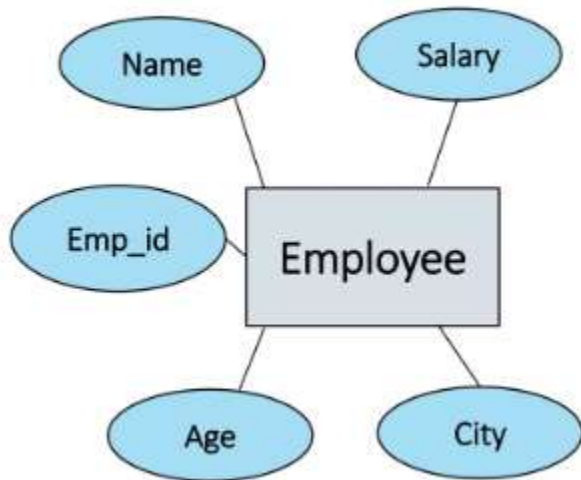


Relational Database

Relational Database

- A Relational Database is a collection of data items which are organized in the form of tables of information, which can be easily accessed.
- This concept was introduced by E.F.Codd a researcher at IBM in 1970 .
- In Relational Databases the data is stored using rows and columns in the form of a table.

Name	Age	City	Salary
Santosh	29	Mumbai	34500
Rupali	30	Pune	30000
Kalpana	45	Delhi	50000
Monali	28	Surat	35000
Hemant	41	Mumbai	55000



Employee Table: Relation

Columns: Attributes

Emp_id	Name	Salary	Age	City
101	Kavita	18800	21	Mumbai
102	Piyush	21000	23	Pune

Rows: Entities





Relation

- able which contains rows and columns of related data

Entities(Rows)

- They are items about which some relevant information is stored in the database.

Attributes(Columns):

- They are the qualities of an entity that are stored as information



Relationship

- A relationship is a connection between the data stored in one relational database table and another.

Stock Table

Stock_id	Supp_id	Stock_name	clstock
1301	001	Soap	234
1102	002	Shampoo	153
1203	003	Toothpaste	105

Supplier Table

Supp_id	Supp_name	Phone_no
001	Hiten & Co.	9914326571
002	Manu & Co.	8114456572
003	Raj & Co.	9942156992





Join

- A join is a connection between two tables where the data from them is merged together based on a field(column) that is common to these tables, creating a new virtual table.
- To create a join it is necessary that the tables have a relationship

Stock_id	Supp_id	Stock_name	Supp_name	Phone_no.
1301	001	Soap	Hiten & Co.	9914326571
1102	002	Shampoo	Manu & Co.	8114456572
1203	003	Toothpaste	Raj & Co.	9942156992



Thank You