Database ---

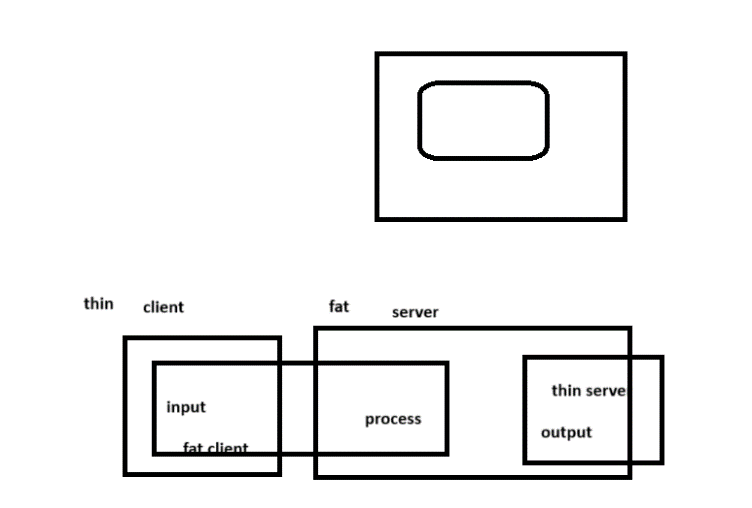
Normal – Traditional

DBMS - Foxpro, Dbase, Clipper –

EF Codd - Relational Theory --- 12 Rules

Relational Database Management Systems - is a software follows minimum two tier architecture and follows Codd rules.

SqlServer --- Microsoft



System databases –

Master,model,msdb,tempdb

Create database <dbname>

Table / relation( two dimensional array)

Create table <tablename>(<column1> <datatype>,…..)

* String --- char,varchar,text,nchar,nvarchar,ntext
* Date – date,datetime,smalldatetime,longdatetime ,timestamp
* Numeric – int,smallint,tinyint,bigint,decimal,float,real etc
* Binary - image,binary,varbinary

Alter database <databasename> add file(

Name=’name’,

Filename=’physicalfilename’,

Size=10,

Filegrowth=1,

Maxsize=100

alter database hitha modify file(name='hitha',size=10)

alter database hitha add file(

name='hitha1',

filename='d:\\emphasiz\hitha1.mdf',

size=10,

maxsize=100,

filegrowth=1)

)

Alter database hitha remove file hitha1

create database hitha

on(//datafile details)

log on(//logfile details)

items

itemcode itemname price qty

1 bingo 12 100

2 lays 12 34

Orders

Orderid customername customeraddress

1 shivani UP

2 varun RR Nagar

Orderitems

Order id itemcode qty price

1 1 1 12

1 2 2 12

1 5 4 45­­

2 2 3 10

2 5 4 12

Select \* from <tablename>

Select [ <column>/expression,<column>/expression]/\* from <table>

Select name, from stock

Select 10 + 20

JOIN - retrieve data from two or more tables as it is coming from a single table

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Equi

Outer

Cross join

Cross join syntax

Select table1.column1,table2.column1,…/\* from table1,table 2,.. --- cartesian product

Equi join syntax:

Select table1.column1,table2.column1,…/\* from table1,table 2,.. where/on <joincondition>

And to join n tables there should be minimum n-1 join conditions required

Data integrity - ensuring correctness of data

For these use constraints

1.check

2.unique

3.primary key

4.foreign key