

Database Properties

field

Record	Roll	Name	Age
→	9012	Rahim	21
→	9005	Kanim	22
→	1023	Jabbar	21

cell → value

row → record

column → field

Tables and Keys

field → key

key through search
we value may
not

Roll	Name
1	Rahim
2	Kanim
3	Rahim

Key

Primary key

Composite
Primary
Key

Foreign
key

Coin Change (PP)

1 3 5

target \rightarrow 6

Database Properties

field \rightarrow

Roll	Name	Age
9012	Rahim	21
9005	Karim	22
1023	Jabbar	21

Record \rightarrow

cell \rightarrow value

row \rightarrow record
column \rightarrow field

Tables and Keys

field \rightarrow key

key from search
value m3H
no,

Roll	Name
1	Rahim
2	Karim
3	Rahim

Key

Primary key

Composite
Primary
Key

Foreign
key

Primary key:- ગાંઠ Data table 9 ઠવ field
 12 unique

Composite Primary key:-

Course Name	University	Credit
CSE 101	DV	3
DBMS	BUBT	3
CSE 101	BUBT	4

ગાંઠ Name 9 course 2.7 આઠ
 કિંતુ 2.7 કિંતુ University 10 after 2.7
 ફરક, 12 12 unique 12 identity 9 12

Primary \rightarrow (CSE 101, BUBT)
 key

or \rightarrow (CSE 101, DV)

ગાંઠ field use 12 primary key 12
 ફરક, 12

Foreign Key:-

Class

Roll	Name
1	Rahim
2	Karim
3	Rahim

↑ primary key

Foreign Key
 Library

bookName	Who-hires
abe	2
xyz	1
pqr	1

↑

ମୂଳ Table ଓ ଅନ୍ୟ table ଓ primary
key use ହେଉଛି ଏ foreign key.

DBMS and RDBMS

DBMS → Software

Advantage:

- Create Table
- Rename Table
- Delete
- Update
- Query → Searching

→ Organised data storing

→ fast search

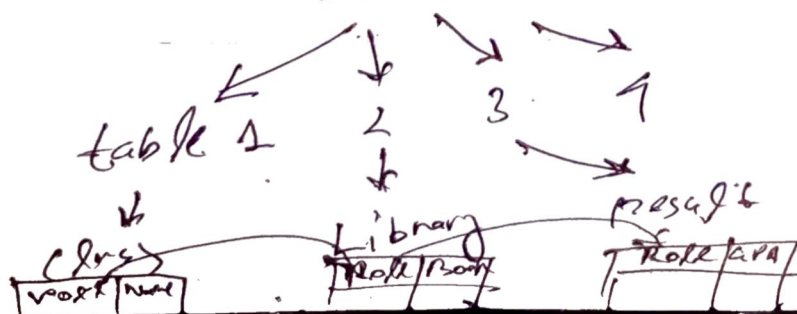
→ parallel access (ମୂଳ ଓ ଅନ୍ୟ ଡାଟାବେସ୍
access ହେଉଛି ଏକାଠି)

Usage:

- Ticket Purchasing
- Library
- Educational system

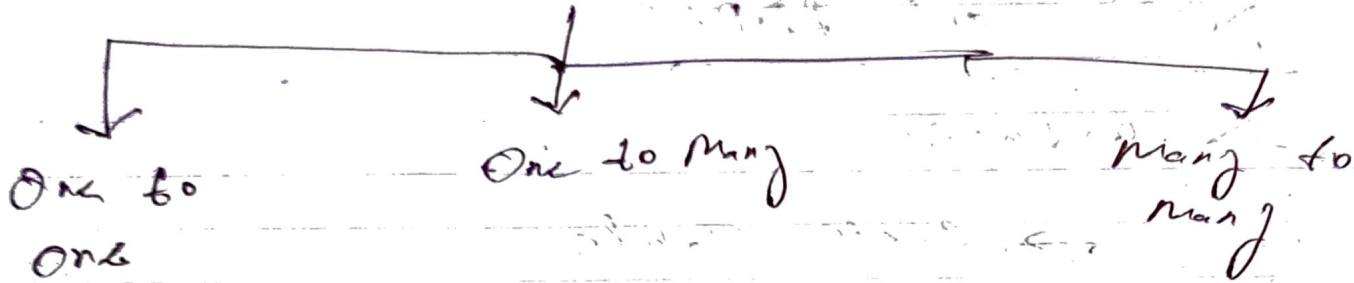
RDBMS → Relational DBMS

Database → college

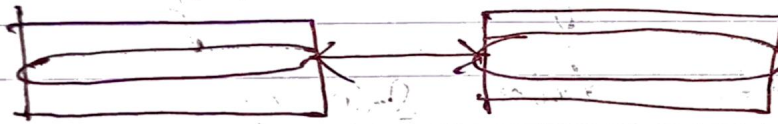


Database Relation

Relation



One to One



Class Table

Roll	Name
1	Rahim
2	Karim
3	Rahim

Contact Info Table

Roll	Phone
2	027
3	016
1	017

જાણીએ, અહીં Table ૧ માં ૩ records છે
 જોઈએ Table ૨ માં ૩ records છે અને

One To Many
Many To One

Class

roll	Name
1	Rahim
2	Rahim
3	Rahim

Library

Book	Who-hired
abc	2
xyz	2
mno	1
qrs	3
tuv	1

Many To Many

Patient

Name	id	age
Mift	1	50
Nigam	2	40
Riza	3	20

Doctor

id	Name	Degree
101	A	4
105	B	7
109	C	2

many



many

Patient \rightarrow Doctor \rightarrow Patient \rightarrow Doctor \rightarrow Patient \rightarrow Doctor

Doctor \rightarrow Patient \rightarrow Doctor \rightarrow Patient \rightarrow Doctor \rightarrow Patient \rightarrow Doctor