

31 MAY, 2023

DATA NORMALIZATION

WHY SPLIT DATA INTO TABLES? } space management & convenience  
data redundancy also taken care of.

removing redundancy brings in the concept of normalization → quick & efficient data manipulation

Are the tables storing logical groups of data  
can make change in single table rather in many tables for the same info.

JOINS

pull data from more than one table!

PRIMARY KEY

cannot have duplicates

then it is a COMPOSITE PRIMARY KEY!  
can also be made by joining 2 columns together!

FOREIGN KEY

to relate two tables together!

- 1. CREATE TABLES
- 2. FILL TABLES
- 3. ALTER TABLE 'tablename'  
ADD CONSTRAINT 'xyz'  
PRIMARY KEY / FOREIGN KEY ( )  
REFERENCES 'table name' (col);

ALIASES

AS

INNER JOIN  
LEFT JOIN  
RIGHT JOIN  
CROSS JOIN  
OUTER JOIN  
CARTESIAN PRODUCT

intersection  
left table & matches  
can't be implemented in MySQL

FILTERING!! can do AND operator!!  
much faster than writing a WHERE CONDITION!