Class - Keys

Azenda

Keys: Primary Key Foreign Key

(DSuper Key, Candiate Key, Composite Key

- 26th Holiday

→ Contest + Evoluation

SOIL MOCK Int.

Key: marks batch Id hanse bs b 80 lo Naman 20 70 Amit Achan 42 13 st id=1 marks of Naman as 85.

ambiguity.

student

Name

Name X

PSP X

marks X

(psp , marks) X

Emai l

Super-keys

Phone No

Email /

Phone No V

(Name, Phone No)

(Email, Phone ND)

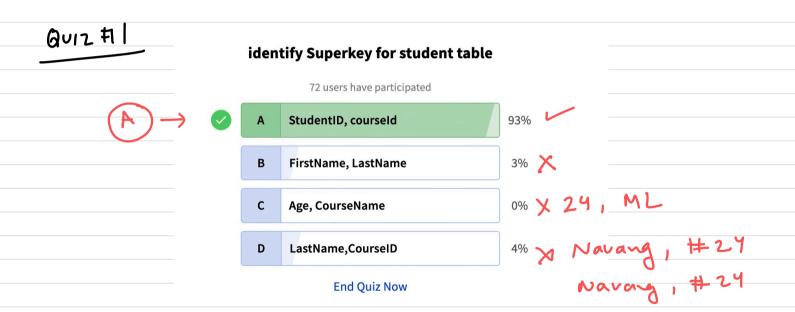
PSP

(Name, email) -

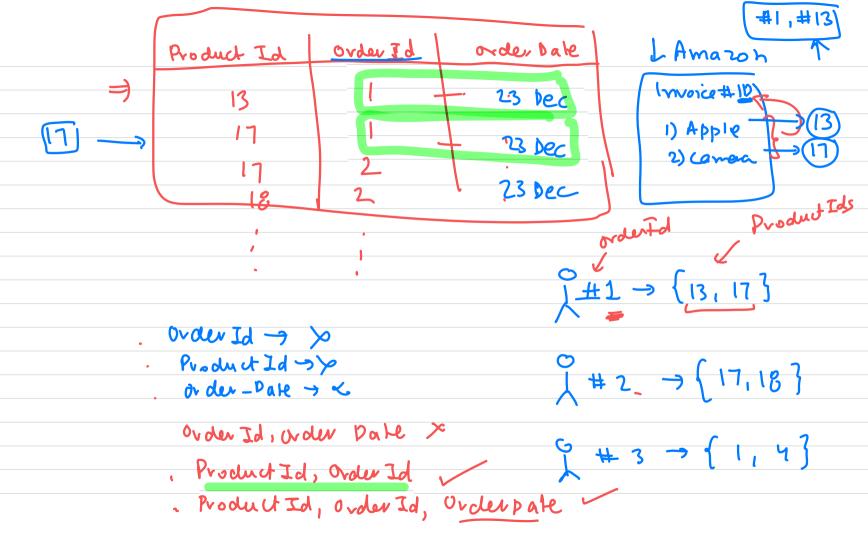
mav14

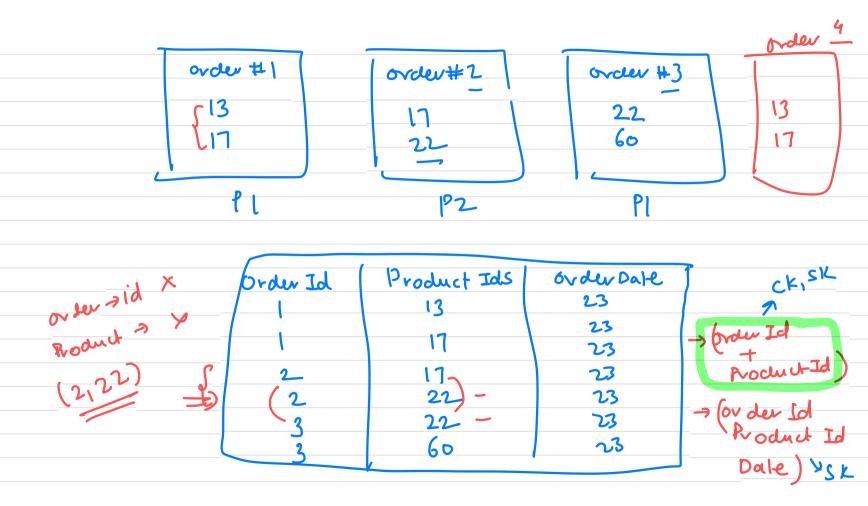
(Email, 95) ~ (Email, psp, marls) ~ (all' cols) ~

Any color any set cols that can uniquely identify a now is a Superkey/Key.



Identify superkey of student table 73 users have participated A StudentId, FirstName 10% B StudentId, Age 1% C StudentId, LastName 4% D All 85% End Quiz Now





student (name, email, bsb) Superlays => (cmail) -> CK, SK A candki's a super-key from → (name, email) -> SK which no als an be (name, psp -> > removed and it still has property of (name, email, psp) >SK uniquely identify a Row.

Student_id class_id atten dance 100 100 100 100 100 100 # 6 CK is Student-id & (St-id, class-id) -> SK, CK Subset class - 1'd (St -1d, class-id, at+) > SK SIL

Is a candidate key always a super key?

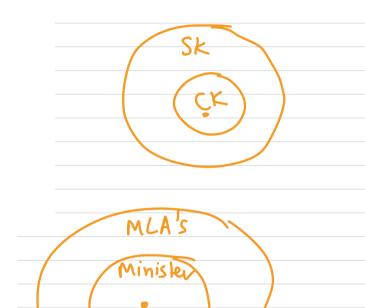
73 users have participated



Is a super key always a candidate key?

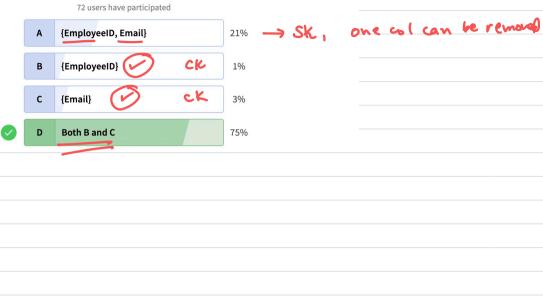
76 users have participated

A	Yes	17%
В	No	83%



Which of the following is a Candidate Key for the Employee table? 76 users have participated {EmployeeID, Department} Α В {Email} {FirstName, LastName} C {LastName, Department} D

EmployeeID and Email are unique for each employee, which of these could be a Candidate Key for the Employee table?



PRIMARY Key

Database Table

- 1) Table is sorted acc to PK.
- 2) Display/Query Table

4 Result one also sorted acc

10 PK.

3) DB weaks an in

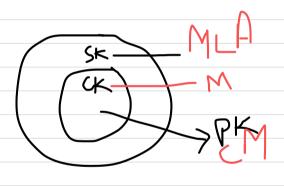
DB creates an index based upon primary key by default. (Index as data structure for faster searching in table)

Ideal of PK:

- 1) should be fast to sort on. For example for student -> roll no will be faster than email.
- 2) have smaller size (index size will be also be smaller)
- 3) should not change.

For because of above reasons, every table needs only 1 key to Be used as primary key.

A primary key is candidate key that is chosen to be the key for the table



Student Table

Roll No, Name, Email, Phone No

Candidate Keys:

RollNo (PK, CK, SK)

Email (CK, SK)
PhoneNo (CK, SK)

Composite Keys (general term) Folines Ly any key which is having more han one col (composibe Kay Cat tiger Name X (home | phone) -> SK prod-id order-date SK, > (order-id, prod-id,)

SK

order-dak

PK

Comp. V

CK'CK'bK Can be either Single Key or composite keey 7 Composite key FOREIGN Keys SK student batch name sid bname SQL ML DSA =) foreign Key b-id in student table is Foreignley not is linking me to batch table student b name can batch also become name brank sid brane PK. AZO SQL