IIITD

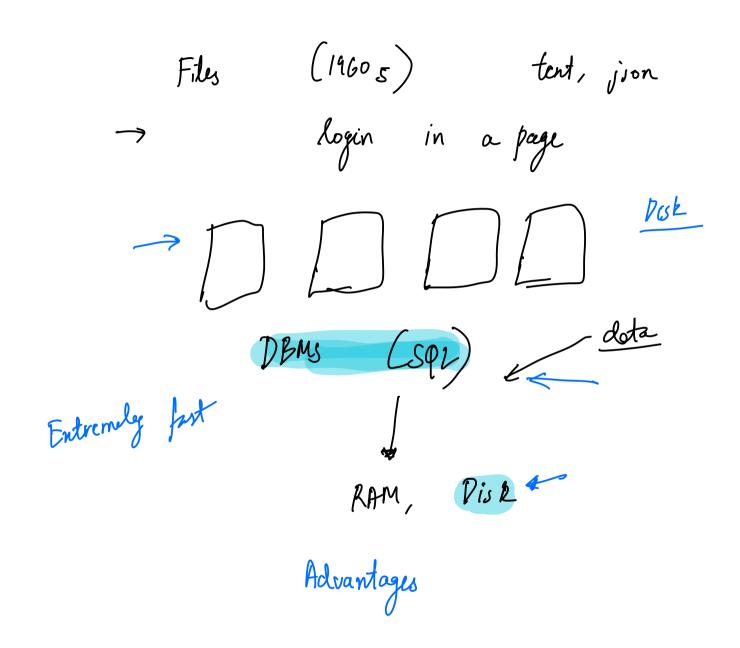
Amozon SDE 2

DBMS 1 DBMS 2 -> What? -> Normalization → Why? DBMS3 -> Examples - Transactions locks -> Petails DBMS 4 -> ER diagram - querie

Relational Databases (SQL) No-SQL (project) (HLD)

What is DBMS? My SQL -> ? Database?

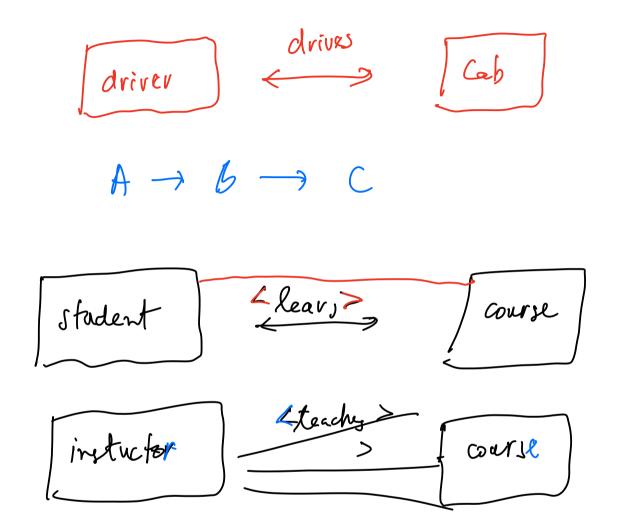
Database Management systems Why! Grin 2 minos Inis 3 menos 0



in butting, deleting, updating It helps and letruing date Security wher bo Gongs youted none boppers -> Cogn -> SI, Sloo Party -> 53, 52 => walking -> 52,54

Key words related to DEMS -> Entity: Coro properties of the data or identities of the or the nours of the data cabs, rider, drivers, UBER -> payments, bookings legrours, instructors, course SCALER ->

attributes -> data that entities store drivers driverid -> name → mob no. -> Lating relation ships: The relation held b/w two entities / rider / - Cob



Attui hutes

stand alone attriblere → Seimple: phone number, rollNo., enployer Id, email Id -> composite attribule: when more then 1 simple attitude is used Full name Fram Sman Lnam -> Rerived attributes: DOB - age reting ->

Melti volued attri hutes: phone No., email addens How is data stored? Student attibutiv contact No Roll No dos Name 1996 Sanyv 000 Sanjiv 1996 (Nane, dob) comperite Row of data

Keys! (Identifiers) set of attributes that accurately define a row Super leg: name: Ashish Kumar College: BPIT

branch: ECE; 25 (Superhy). Nam, phone num ber i Nam, dob Name, dob, phone number ghone No. holl No. holl, dob

which is also SK

Candidate ky: smallest subset of superkys is alled

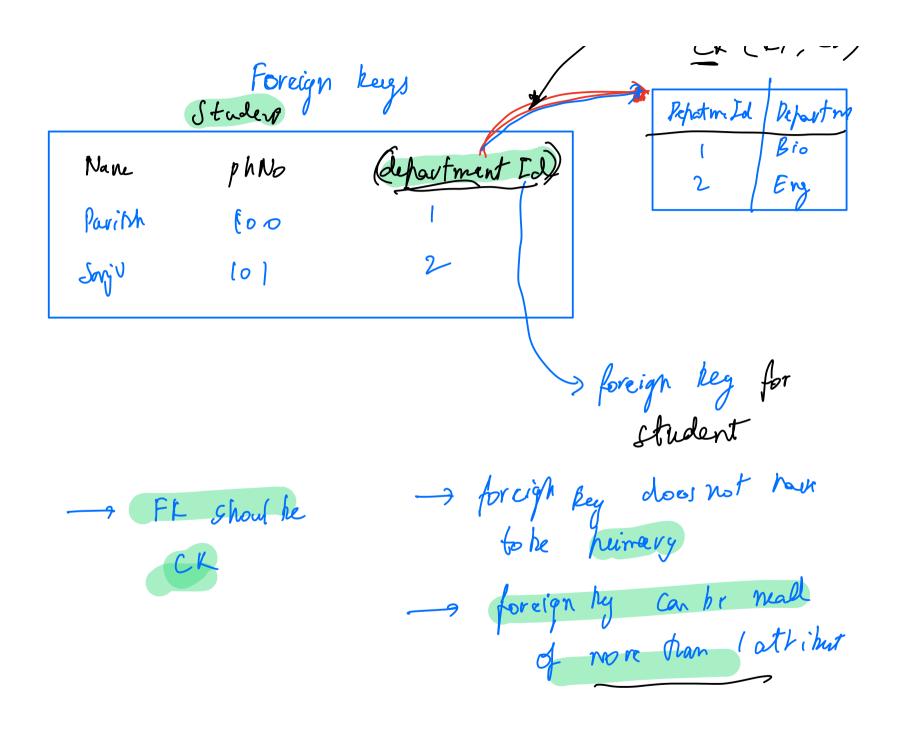
Candidate ky

Nane, phone No., dob — (multiple at - (miltiple attribute) 7 hone No · Poll, Nanc E phone No, Roll No volue out of all Primery Key: condidate 1 chosen values (meltiple attribuli)

· Break! Fnam nance PariMh Pruth Ken laville Purh Singh PK Fram, Lyon

Compaite key: any key male of more tron lattribute

(1) (1) (2)



(numbers) Cardinolity UBER One - One: one driver looking onedliver Mary: Mary - One:

trips

trip

trip

trip

May - May

Riders Drivers

Namy - May

Normalization

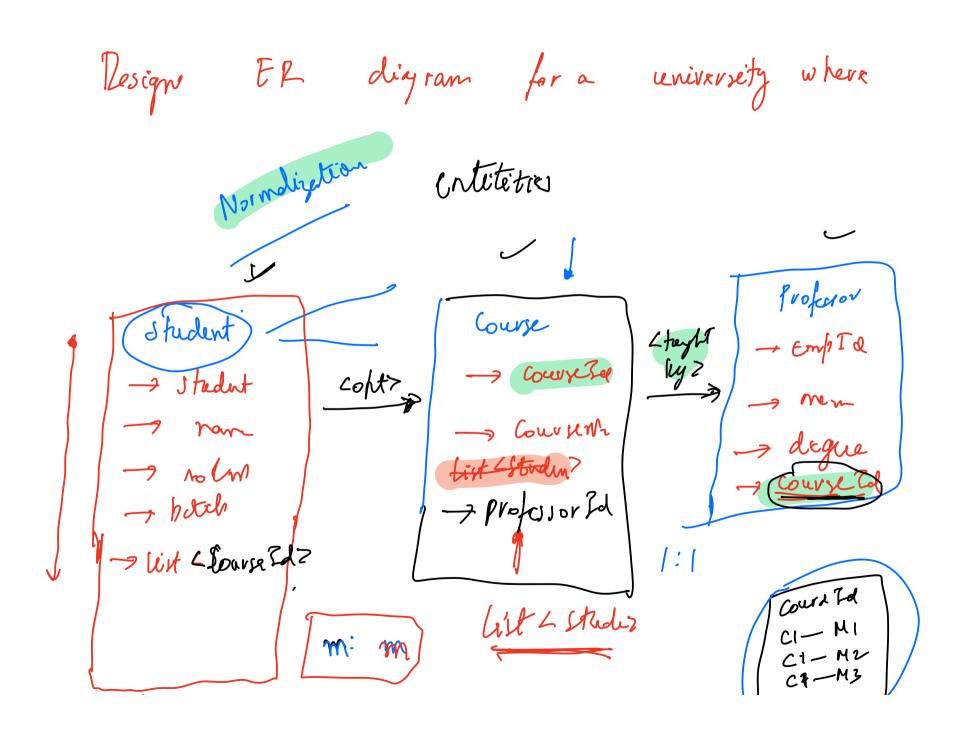
ER Diagram (Entity Relation Diogram)

— Entities list all the entities

— write all relationships

— advirabity

— attitutes t lectargle ->



t Course?

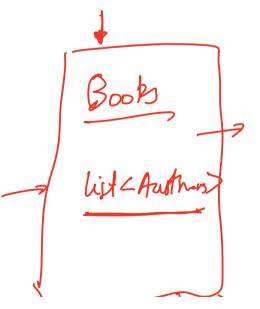
Functial dependencés

(Normalization)

Done!

M: M

Autors List Charles



Nanz

booked

BI BI PG AI AZ AZ

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reach

B1 B2 =