DBMS

-) Cut is - DB?

-) lat is DBWS: in managing DB.

SQL-Communicate
-6 DB.

-) DB IIS DBIMS.

Types of DB.

SON dB - Relational, Analytical(OLAD)

MOSEL DB - Column-framily, graph, document, key value

-) wit or endexes.

7 How is table scan different from Index scan.

-) pages in DB. - pages are stored in B tree in memory

7 DB pastiltoning

-) PB sharding

-) (Yelusive lock 48 shored lock.

ATR diagrams. to schema

Types of steys in DB.

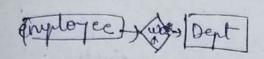
4 primary stey, candidate stey, foreign stey, composite
unique stey, super stey, secondary stey,
surrogate stey

on omolies in DB.

supdate, delete, insert

Normalization

- functional dependency =) Normal forms LACID, BASES, sew very, states. -> Transactions -) R DBMS: Crash Course - Varnsi Bhavani' Imp Teams. -) Relation - table -) Puple - row -) Attribute - column Domain - finite set of values for a attribute -) Schema - design of table -) Degree of relation - no of attribute. -) intension - schema -) extension - table. DOL. - Data Queey Language - select DDV - Data Definition language schema, instance, alter DB, rename, create, drop, truncate DML - Data Manipulation language insert, delete, update, DCX - Data Ctrl language - grant permission or occers, -C-R Model, entity - deal world object. (hours) - person, employee etc. entity set - collection of entities. Attributes - properties of those entitles. Relationship - werb).
- organised attributes :- multiplued, slagle attribute, complex attribute, complex attribute, complex attribute.



y one to one one to many many to one many to many

- Constraints (Restrictions) - Domain of snotname | tho X snotfills | the Nistingle attribute undali) - Referential antegrity - foreign key (null values undochu)

& of previous

· Jandonj phelumining

-) Normalization.

4 points: - non-atomic - multitonger toattine 1 partial dependence, (A,B) april Commide soi B 1 transitive dependence A+B postion depend itte 1 dependence internally tota (A, B) ((C,D): okavela B & (okadani get another meda okati depend ithe

DINF. - non-atomic arrakudadh

2) ONF - INF + per no partial dependen

3) 3NF -) PNF + no transitive depende

-) 3NF + no internal dependen (3.5 NF)

Indexorny: selection of sight block/page becomes farter. mary -) secondary -) clustering based on key (prinary key) of Endexing lyper: fi done ordering (mareldese). Later lace with the training of the later Transactions: Collection of chiff operation. helps to solve single logical unit of work renamed by Francaction (Shu) a markes damaged to ACID properties 1 - Atomicity (all or none.) anni collections jargali ledly enumed by & C - Consistency - convections correct ga undali-wealor grower - convections correct ga undali-money detection Anda additing enewed by +1 - & solation - ye transaction to a transaction cheschoval; enewed by +1 - & solation - ye transaction to a transaction cheschoval; one of the solation of the sol concurrent D - Duraboility operations anni permanent ga undali secovery manager. - Concurrancy ctrl. 4 pld of simultaneously ga multiple transactions of un awader Types of concurrancy et techniques. 1) lock based protocop: \$ 3 simple 10:K * 1 2 phore lock - graph based protocol Ortine storp based protocol of Timestamp ondering of Thomas write rule (3) Multi-granulasity protocol. (4) westion protocol. -) multiser vertion I Phase Lock

+ multivestion timestamp ordering

Simple Kock. - Lock - nead - lock_R L'exclusive lock-write - lock-w. shared exclusi eclusia x

shared ithe malli shared cheyoch kan migatti cheyalen.

2Pt (2 phase lock)) both shared & exclusive will be there -) Ogrowing phose but differ on how we obtain.

* Kovalisma locks ni orquire chemicumtum. Dehrinking phase & akkaglenidh: flocks ki vadhilesidh:

3 yres of 2PL.

- strick cacquire chesina exclusive tocks ni transaction complete ayya vasaku vadalakudadhu.) - rigorous , both exclusive lock & shared lock are not released L'eonservation. until and transaction done

tien before committing we can release to the.