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Computer Science Engineering / IT Toppers Handwritten Notes Database Management System By-Ravi sir

- Theory
- Explanation
- Derivation
- Example
- Shortcuts
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Database Management System:

- 1. Integrity constraints and ER Model 1-2 marks
- 2. Narmalization 2-4 mains
- 3. Quiries (vulational algebra. SQL, vulational calculus)
- 4. File organization and Indexing (B/B+ True) 2-4 months
- \$ 5. Transactions and concurrency control. 2-4 mounts
 - Reference Books -

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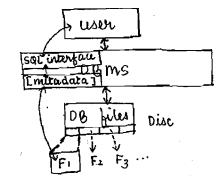
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- 1) DBMS Raghuramakushan
- 2) DBMS Navathe
- → Introduction:
 - Database structured collection of related data which is stored in computer system to access data when it is origined.
- O University DB students into [coelection of files]

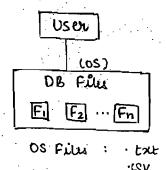
 Course into etc.
 - · Database management system application software to define, manipulate and access data from database.



- J Interface blio user and PB files
- · metadata data about data
- also called aata aictionary
- Farmat of file
- Format of now and column
- All stonage info related to DB files

- ·Flat file System [OS files] user manage database file without using DBms.
- Small doltabase is managed

Flat file system fails to manage hugé DB.



Unitations of Flat File System

- i) Too complex to manage apph purgnams complete into of the purgnam should be managed by <u>user</u>. (DBA
- ii) more I10 cost (and access cost) to access orequired data from ab files

· end user)

- "" less degree of concurrency
- iv) too complex to maintain non-redundant data
- V) Too complex to maintain different levels of access Contral

Adv. of DBMS File System

- i) Easy to develop apph programs
 because of <u>data independency</u>:

 (changes of file structure is not
 affective for user apph, user
 can use ab files without knowing
 storage lnfo)
- indexing.
- "") more degree of concurrency
- iv) easy to maintain non-judundant data by using normalization.
- can maintain different muls

based on RDBMs madel → Intigrity constrainti > connectness of data · Data model - logical structure of DB files : · is unidely used * RDBMs (in synabus) · Codos dolta model (By Efcodd) → ODB MS -D NW DBMS codd proposed 12 sulli — o Hierarchiai DBMs : design RDBMS software. (ROBMS quidelines) · RDBMS Guidelines -(but of norms & colo) i) data in db files must be in tabular format. 🔭 🏗) no two nows of the table should be same. "ii) Every ROBMS table mill have atleast one candidate ky iv) Every attribute of RDBMs table must be single valued (atomic) cid - multivatued Sid \ Iname { C1, C23 allowed \ {C2, C33. in Robms O v) Number of columns for each evolve and no of nous for each col must be same vi) name of one column is called attribute (or field) is called record on Tuple vii) Name of now ONE (1) (a) of the table is called <u>relational instance</u> viii) Set of all records **O** (or snapshot) Attribute field : set of all neconds Sname Sid Stud DOR **3** of DB Table <u></u> Si А Tuple 2000 \[
 \omega
 \] ړ ⊇ vulational В 2000 cardinality : 4 instance writy : 3 Sz 2002 ્ 🍪 Sy \boldsymbol{q} 2004 (8)

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