27/9/21

DBMS (2CSE301)

Date
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(1) Given schema,
Student (enrolment number, enrolment-year, course enrolled)

(i) ALTER TABLE Student
ADD PRIMARY KEY (enrolment_number);

(ii) ALTER TABLE student
MODIFY (enrolment_year VARCHAR(4) DEFAULT '2021');

(iii) ALTER TABLE student
MODIFY (course enrolled VARCHAR(50) ~~CHECK~~
CHECK (course enrolled IN ('Database Managment system', 'data structure', 'Object oriented Programming'));

(2) SELECT * FROM Employee INNER JOIN Department ON Employee.emp-id = Department.EMPID
GROUP BY Department.DEPT_NAME;

(3) (i) DELETE FROM `corona warriors`;

(ii) DROP TABLE `corona warriors`;

(iii) ALTER TABLE `corona warriors`
MODIFY (id VARCHAR(10));

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(4) There are 4 kinds of users of Database. They are :-

(a) Native users
(b) Application Programmers
(c) Sophisticated Users
(d) Specialized Users.

(a) Native user :- Native users are basically clients, or the person who use the database through menu driven program. They are not aware of backend process of database.

Eg :- Tinder, Instagram users.

(b) Application Programmers :- This users work for backend process of database system to develop the application programs for clients.

(c) Sophisticated Users :- This people have knowledge of database. They interacts with system with writing codes but by just using SQL queries. They can also develop their own database.

(d) Specialized Users :- This users develops specialized database application for backend as required.

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Database Administrator :-

- The person responsible for all the management and administration of database.

Responsibilities are :-

↳ Installing & updating database ~~&~~ servers.
↳ Designing and Implementing structure of database
↳ checking performance of database servers.
↳ Transferring database from one place to other.
↳ ~~Back~~ Backing up & restoring the databases from servers.
↳ Security of the database servers.

(5) (i) $\Pi_{Title}(\sigma_{AName='Amish\ Tripathi'\ AND\ Address='Mumbai'}(authors \bowtie has\text{-}written \bowtie books))$

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(ii) $\Pi_{Title,\ publisher}(\sigma_{StId='3'\ AND\ Date='26\text{-}Sep\text{-}2021'}(books \bowtie borrows))$