## SQL Assignment - 01

- What are the advantages of a database management system (RDBIMS)?

  What are the advantages of a database management system over a file system?
  - A Relational database management system is a program that allows us to create, updata and administer a relational database. Most RDBMS systems use the SQL language to accept the database
    - . Advantage of DBMs over file system
  - 1) Data Redundancy and inconsistency
    The file system cannot control the Mediandancy of data
    where as DBMs controls mediandancy by maintaining a single
    mepositomy of data and is accessed by many users.
  - 2.) Data sharing

    The file system does not allow sharing of deta or sharing is too complex, whereas in DBMs, data can be shared easily due to curralized system.
  - 3) Data searching for every search operation performed on the file system, a different application program has to be written, while DBMs provides inhuilt scarching operations.
- and system crashing of the system will be no excovery of data that is been lost in file system. but in DDMS we have a necovery manager which beteriores the data
- 5.) Easily Main Lamany
- 6) Backeny
- 7) Interface of provide different new tiple user interface like graphical user diff interface and application user interface.

auson en a DBM, explain the ACID peroperties? - In order to maintain consistency in a datalose, befor after transaction, certain peroperties are bollowed. They are called ACD peroperties. -> The entire transaction takes play at one or doesn't happen at all > C = Constituy -> The database must be consistent by and after the transaction ACID > 1 = Isolation -> Mustiple transaction occurs indefende neithout interface > D = Durability -> The change of a successful transaction occurs even is the system bailure occurs puro3 Explain the concept of normalization - 9. Normalization is the process to demicrote climinate data redundancy and enhance data entiglish in the talk · It also helps to organize data in the database It is a multistep perocess that rets the date ento touter tabular boun and evenoues the diplicated data ferome the relational tables areay Explains the many type of quay languages wed in arelational dalacase, DQL, DML, and DDL Query languages. Dara Query Data Contol Dala Definition Data Manipulation Cauguage lang vege lanjuage languege

- Oceate Table

Select

- Jusers

- Update

2 Revoke

of which of the sal commands that can to used to define the define surely surely to define the

1.) Creating Table

"column" "data type",
"Column" "data type",
"Column" "data type",
"lolumn" "data type");

2.) Alter Tobie

ALTER TABLE table name ADD columname datatype; ALTER TABLE
table name

Drop columname
datatype;

Dar stolements are used for performing queries on the data naturing schome objects.

School \* belon " Toble nouni"

9t deals with the manipulation of data present in the database

- Insert

Inser into "table name"

(first column, ... last column) values (first value, ... lost value)

o update for munico e has browning stop a seem deem

update "table name" set "columname" = "new value"

[, "next colum" = " new scalir &" ] where

"column name" OPERATOR " value" [ and lok "column"

Operator "value" ];

delete from "tolk name" where "column name" operator
"value" [and ] or "column" operator "value"]

key ? give intoury of now periorally key and a compaint

- Primary key

A primary key constraint uniquely identifies coul necost in

A Primary keys column must contain unique values and launot have mult values

A Table can have only one primary key, which may const

## composite key

A composite key is a combination of two or more columns in a trable that can be used to uniquely identify each now in the table when the columns are combined uniqueness is quaranted But when it taken individually it does not guarantes unique

## Syntax

Primary key

(reste table "table name"

(columns, data types,

columns data types,

(columns data types,

primary key (column-name)

composite key

cueate table table\_nare (
column) datatype!,
column) datatype!,
column) datatype!,
pulmary key (columnsiane)
columnsiane;

Ours de a column unique constraints in sal

create Table student (

Student\_id int not null,

Student\_name varchar(50) unique,

age int,

gender varchar(1),

locatation varchar(100),

PRIMARY KEY (student\_id)

);

altor table students

altor location set default Idellii;