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## Assignment-03

- Date of Completion: 1 th August 2020
- Date of Dubmission: 14th September 2020.
- \* Pitle: Design Sql queries fou suitable database.
- Puoblem Statement: Design atleast 10 SQL guerres
  for suitable clatabase application using SQL DML
  statements: suserl, select, Update, Deletinitu
  operators, functions and set operators.
  - DML commands.
    - le set operators.
- on given schema
  - Delete mite operators, functions le ret operators.
  - \* s/w and H/w Requirements:
    MySP1, Windows 10 (64 bit), is processor
  - niony:
    creation of database:
    syntan: create database db-name;

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Showing au databases:

Syntaa: ohow databases;

i we database db name;

Tables

- Tables can be created inside a database using this syntax:

> receate table table name ( column nome,

column type)

Other things that can be included are:

- Field outsuibute NOT NULL can be used if

ne clon't want any column to be mull.

- Field attribute AUTO INCREMENT can be

use to recate sequence.

- Keyward PRIMARY KEY can be used to

rolefine a column as a primary key.

CONSTRAINT:

Mysql constraint is used to define sules to allow or restrict what values can be stored in columns

Maureus constraints are:

if NOT NULL- rallows to specify that a rolumn

row not rontain NULL value.

ii) unique - does not allow to misert a chipurcate value in a column

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data for that rolling le reales a unique index for accessing table faster

by one specific column of both tables. The specified rolumn is one table must be a PRIMARY KEY be reflered by column of another table known as PRELIAN KEY.

VY CHECK- determines whether the value is valid or not from a logical expression

vi) DEFAVIT- while inserting a data into a table if no value is supplied to a rolumn, then the rolumn gets a default type value

Syntax

([column name] [data type] ([size]) [column constrain

[ table constraint] ([[column\_name]...])...)

FOREIGN KEY:

syntax!

FOREIGN KEY [rolumn\_list] REFERENCES
[puimary key table] ([rolumn\_list]);

can be used neity create or after statements.

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CASCADE - deletes or updates the sew from parent table containing PRIMARY KEY ) & automatically delete or update the matching sous in the child table
RESTRICT - bars the semonal of or modification of rows from the parent table.
Dropping constraints:  ALTER table touble name DROP [constraint]  [constraint name];
DESCRIBING à TABLE! Syntax: plesc table name;
BROPPING TABLE: Syntan: chop lable tablename;
INSERT PUERY:  - inserting values into a table:  Syntax:  insert into table:name (field!, field2)  values (value!, value2,);
SELECT QUERY!  - Et & used to fetch data  Suntax:
SELETT field!, field2 from table 1, table 2.

of you want all fields you san specify

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- Offset sets from where query new start seturning records by default offset = 0

for can limit the number of returns using the

WHERE Clause:

- rue can use a conditional clause called the where clause to filter out the risults out of select / update command.

o Operators that can be used are:

this neil modify any field value of any
Myspi table.

Syntax:

Applate tablename SET field 1 = new value!,

field 2 = value 2 -- [novere Clause ];

o Deiere puny:

- used to dilete a record from a table

Syntax:

Delete from table name [ where clause];

- used with where clouse and can be used to suplace '=' sign.

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Stitc7 field, field2 from table1, table 2 -- where field! lake condition ( [AND [OR]] field = '-- '; - you can use like slause vistrad of equals to sign.

- if like slause is used along with % sign one it O ORDER BY! - sorts the seconds Syntax: Select fields, fields-from tables, tables, order by fields, [fields-][ASCIDESC]]; O PATTERN MATCHING! - enables you to use - to match any suingle single characters & % to match any number of sharacters. ex to find names beginning with b select & from table name where name like it's · REGEXP Operator: expressions pattern matching based on ugular patterns: 1, \$, ., [...], [1...], p1/p2/p3 ..., etc



