#### DDL:

in a database

create table table name columnname data type,

);

after: This query is used to add new column in a table.

after table table name add column\_name datatype

Drop: This query is used to drop/delete the column or table.

drop table table name;

Rename: This query is used to change the name of the column or table.

Select ald-column as new column from table non;

#### DML:

Insert: This query is to add new row are record in a table.

insert into table-name values (value 1, value 2, ...);

- Update: This query is used to change or edit

  Specific column or more than one column

  value. In respect of without any condition

  or with a specific condition
  - 1) Update table name set formula
  - 2) update tablename set " where condition

delete: This query is used to delete a specific row or record within a table or all the record within a table.

- i) delete from table name;
- 2) " " where condition

Select: This query is used to fetch on retrieve a single record on more than one record in respect of without any condition

# legical operatore

- and

and: This operator is use to effect more than one condition If all the condition are true or satisfied then the output will be executed.

or: This operator is use to check only a single condition with in many condition. If the condition is satisfied then the output will displayed or query will be executed.

not: This operator will retwer opposite of the condition.
i.e. output will be displayed opposite of the condition will not use individually. It can be used with the other operator.

Between: It is range operator to check a condition within a given range.

not between: It is a stange operator. Which is used to check the condition except given stange.

equal(=): It is used to check a condition in respect
of a specific match.

not equal (<): It is used to check a condition in suspect to except the specific match.

in: It is alternate process of an operator. Use to check whether a specific condition is true within many condition.

2,

not in: It is alternate process and operator which is used to check whether all the condition

like: It is a substraine operator. Which is use to check whether a specific letter or more than one letter is present with in a strang.

many letter checking
Single

not like: It is a substraing operatore. Which is use to check except a specific letter.

## , what is database?

to store the data in systematic and sequencial manner is known as database.

Frample: Student information management system
Reilway time table.
Flight Reservation system
Audit table

### components of DBMs

Entity, Atribute, file, relationship, medule, macro

### what is DBMs?

It is a software which is used to add, insert, edit, update as well as delete the record with in the relation (table).

Example: Oracle, Mysq.l, Sql Server, MengeDB, DB2, D.Beve, FOXPRO, FOX &P Bevse, MS Accers

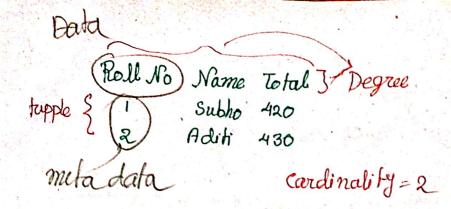
#### · Tupple

with in a relation each row is known as typple

Attribule: With in a relation each column is known as Attribute

ea with in a relation total number of typple is known as rardinality

with in a relation to tel number of Altribute known on degree.



Data Dictionary: with in a database borganised the Databere and structure of the database is defined within the data dictionary.

data dictionary is present with in a system table.

System fable: In built table which are already defined at the time of & installation of database engine is known as System table.

are predefined.

meta data characteris, Desta about Data is known as

It's present with in data dictionary. It's used to describe itself. It will store wer data.

Domain: Properpy of an atsibute is known as domain. That means of the calumn is known as domain.

Total, Roll No - imteger doman Name - Yarchare patabase instance: Schema of the database (Structure of table) is within database instance

Database 3 chema: Structure of the data book is known as database schema

Create table Student

( Roll-No int not null Joinary Key,
8- Name varchare (20),

Total int.
);

Data constraints: To prevent enter duplicate data with a table database constains is used.

-logical constraints - Intiguity constraints - Entity Intiguity

constrains

Perferencial - 
Foreignkey n

L Physical constraints:

- Hey constraints - Primary key
- Fameign key

- Alternate Key - Super Key - candidate Key with in a DBMs table the key which is used to uniquely identified the tupple is known as primary key:

It's must be unique and not null.

This key constraints is used to prevent duplication with in a table with in a table only one column can be used as primary key.

Candidate key: All the runique and not null calumn with primary key is known as primary candidate key.

Cundidate key can be more than one column with a table.

Alternate key. Except Primary key all the other and wright and not null columns know as possible rate key Alternate key must be unique and Prof null.

Note: Candidate is not present with in an primary very, but primary very is present with in candidate very.

FIR PK . Roll No Name Total Reg. No Cert. no. Pditi 420 RO01 0001 DK =1 Wditi 430 ROO 2 C002 CK=3 Sucho 440 R003 c003 CR Roll + Rey No

+ contino

AK=CK-PK

= 3-1

Subset with in a super set is known as super key
It's must be unique and not null that means no
duplicate subset is allowed.

```
{ Roll 3

{ ", ", " total 3

{ ", ", ", Regn No 3

{ ", ", ", ", cert No 3

{ Rame 3

{ ", Rall No 3

{ ", Rall No 3

{ ", Rall 3

X 1 ", Rall 3
```

Foreign key is used to linkup between two ar more table.

If a specific column is present as primary key within the first table and that column if present within the seand table then it's used or fareign key.

foreign vey can be not unique and null. There can be more than one fareign skey in a single table.

Note: primary vey and foreign vey and be sume, there data type must be same.

rje			110 0	
Rell No Frame Total	Par la Cont No.	1 Name		1 No
Aditi 420	Romi COO	Janel	Sall port 2	
		Mallick	Kestopur 1	
3 Sucho 440	2002 coo2	Miona	Salt/alle	

Data integrity on Data consistancy or non-duplication within a DBMS table, If we set primary key with in a specific column then no duplicate record can be enter with a table.

That means data redundancy can be avoided.

Pall No Name Cetal 1 Vditi 420 2 Aditi 430

As primary key applied from here so data redund.

within a DBns table if we don't set primary key - men duplicate data can be onler within the a table. It's known a data redundancy.

Roll No Name Total
L Vditi 420
2 Aditi 430
2 Subho 240

strong Entity / Hubute Relationship within a DBMs table if we set primary key within a specific Column then that whem is known as strong adbubute. If a single primary key is present with in a table then that table is known as strong entity. . If a primary key present of first table is present as forceign Dey of second table then that relationship is known as strong relationship. strong entity ER Hagram strong Attribute Entity Relationship Dia-Strong Relationship 2 Name Roll FName Jana Aditi Mallick J Vditi student Flam Koll Student Info Wame