Numeric Data type

INT (whole number) BIGINT (very large cohole number) small INT (small viange) (-32,1768 to 32,768) TINYINT (way small (0 to 255) NumERIC (712) | DECIMAL (712) eg: (12345.67) FIOAT -> Folating point number eg: (3.141592) REAL -> Louler - Precurios FLOAT Money -xwrency (accurate to 4 decemal placem) 09: (1999.99) SMAII MONEY

CHAR (1) -> Fisced length gtring String Data type. VARCHAR (n)-> variable - cenqth ASSII 1 He110 TEXT -> Deprecated large fest (ure voncHAR (MAX)) NCHAR (n) ? - 7 unicoole string.

NVARCHAR(n) eg: N' 5 LIX'

J. Same

J. Same

N. Gostingon'

NVOICHAR (MAX)

N' Gostingon' Create Table 91 (Name NVARCHR(10)) INSERT INTO SI value (N'modification)

Data and Fime Data type DATE > Stores only data <u>09</u>- '2025 - 04 - 22' TIME -> Stoves only Time 14:30:00 DATE TIME -> Date and fine (regary type) 12025-04-22 14:30 DATE TIME 2 :-> High precimon 2025-04-22 14:30:00.1234567 SMAILDATE TIME -> Roundled data fime 2025 - 04-22 14:00

Binary Data type

BINARY (n) -> Fixed - length binary. eg: plags ibitmaps. VARBINARY (n) - variable - longth binar Files, images. van Binary (max) - Large binary Horage DDFS, videos, pictures. B9T -> Boolean (0 ov1)
eg: 1= Trul & 0 = Fache. spoual potatype Unique DENIFIER -> unuque e9: 6F21AB-CIAZX-BAZO-012A XML - TO Store PXPNL Formattle CHEOCHRAPHY I CHEOMETYY L) For spatial data like moup. 09:- coordinates procetions

SQL-Variant - van stone dutberent data types in 1 coloumn - used to vierrerent Hierachual Data. HIERARCHYID

SQL Query types

DDL - Data Depenition Language Lywed to depine and modity the esteructure of database

On CREATE -> create new tables 1 Databare 1 indens commands: Databare, indems, etc

ALTER - modity crunting databall

DROP -> delete Objects 19ke tables or databall.

TRUN CATE > Remail ou pous brom a fable quickely

REName -> Remame databare obsect (varies by son d'alert).

example:

ALTER TABLE SI Add M3 NumERIC

To add a coloumn

PLTER Table SI DROP COLUMN TOTOL

to oremoul a column SP_RENAME 'SI' 1'8+D'

-> TO Rename the table Store moverage of

ALTER TABLE STD ALTER COLUMN SNO NUARCHAR(20) Tochange the soutatype Li numberile Int can conver to string or chair

But Text can not convert to

DROP TABLE STD; oremore the table DROD DATABONE Student; TO oramoul the parabarli DML - Data manspulation language L) wed to manipulate data invide energing fables. commands: Elica de co e la constitua SELECT -> Retrieve data. INSERT -> Add new records uppate -> modibly exitinting records. DELETE -> persone orecondis

example:

INSERT INTO STO (IDINOME)
value) (II Tom')
L) TO INSERT Value.

SELECT * FROM STO!

L) TO SELECT The table

UPDATE STO SET Name = 'AOM'
Where id = 1.

L) To update a table

DELETE FROM STO Where

ID=1

L) TO delete a fable.

UPDATE STD SET TOTAL = MI+M2

Sonotron onemple won upporte

SELECT *FROM STOD whose have

Sto get should only.

DELETE & whose wed only.

SELECT

DELETE FROM STUD Ly Delete all orecord.

DELETE FROM STUD WHERE

L) Oldlete upeitie SNO = 1

recode

SELECT * From STUD WHERE

MI = 90 AND M2 = 80.

SELECT * FROM STUD WITHERE

MZ = 80 OR M2 = 90