(20 CSO12) B.N. Provodila

SJUN TOL

Patabox creato

· Command based . · au Based of one y america solony

Create natabase plangeds Use dename

-) Create Table create Table Name (Attribute) materiore (value), value, -) dan solia 200 godin

- Insert

as your little work along insert "noto table Name Valeus

- selecti Delete select * Ann Table_wave

relete from Table Name where and , condn o, ---

DOL:

the gold war (colors) detailing not well ? ? wed to defred an after the structure of de items 33989 create, ALTER, DROP, RENAME, TRUNCATE, COMMENT. comes Einer DOL (Data definite Language)

Om1: - (manufidam)

for accessing monepulating data in do

- select, Insert, UPdate, Delete, MERGE - conjundor DM

* DROP Table Table Nove

of Where.

to specity cond' while fetching data from single table or by Joining with multiple tables JJUN POL MICHIEUE

select idemmi, -- a Column . from Jable name where [condn];

(30000) Operation ... AND: MONTH MARCH Column 1, -- Column N From Table Name where Condition (Cord 2) AND :- AND (Cords DELETE: Delete from Table ware whom [candr]; ALTER? Makes man adopt - Curtilacs 1 the 18th At allaws on to add, modity, dolotte column two existing to ATTER table table-wave OPOP Glumn column-Name; NOT NULL: constraint enterces a column to NOT accept NULL volum CHECK: Mare (colors) datatigne NOT NULL,) ibertion of b To check whether value entered into a neard. Table wave [Column datatyre CHECK [condn], contribution 2 datatyre Create Table

Unique:

entured that there are no chyplicale value present in column.

C'heate table Table ware Calcimo 1 datatype Unique, Column 2 datatype,

uniquely identified cach row in a table

MOT NULL (MIQUE l'okay)

More hen l'idea >1 unique lang only ,

Mot null

desplicates - Can accepts NULL com accept NULL com accept NULL

ALTER, determine year new on the dela To add, delete lang, modity column. Alter - ADD: ALTER Table Table none ADD Edemo nane_1 data type, 2 dotely, ---; ALTER-Dry? -modity, Atter table table none. Acter table labe name one alamn column none; Alter column edermon none dotatype; TRUN CATES and to mak the entents of a bable for deallocate Compty for reak. TRUNEATE Table table name; RENAME:

EXEC Sp. rename "old nane", 'New name"; (Table) Exec Sp. remare (Tablerane. Old Coleumname), I New Colom rare!, (Coleumn);

Somment.

Single line: - - single like on bomb of mator . amosturas

multifire: 1# multiple #1 +0 salt posts and some salt

Inline: selectitum (* cartons; *) month; letern ments part et dete

OCL Control)

used to grant & take back automity from any database user. GRANT, REVOKE:

Grant.

Grant privileger-named ON table name TO Wet; REVORE:

REVOKE Privileges - names ON Table name From Wer;

DOL: (quem) for perterning queries on the data within scheme objects - include settet commander select columns, colonn 2 pun table mare; fele of & Amo table nort; Data type. men dold they Value represent : INT, CHAR, DATE, VARCHAR Space framery occupy: Fixed or variable STADW Datatype > Memerical data type (See years) String data type mon start start start Date of Time dotatyse for Date of Time data type, 1- DATE DIFF 2. GET DATE 3. abtute DATE: Rotain he corner UTC date of Time 4. SYSDATETIME: Return date of the Of SOL server 5-DAY: return dost of mother for date 6. MONTH: return month part of dote 9- YEAR: reten year part of dato. act to grant a take bell ant DoteDiff (interval, deck 1, date 2) actorite () Pay (date)

To calculate age trons nos: Upnate Table-name SET year-differ = Pate ditt (year, dos, evero ATE()) where don IN CSELECT. don From Table name) SELECT CONVERT (varchar (1.0), CONVERT (DATE, deb, 165), 105) Aggréfate Funch perform a calculate on a set of values as returns a single value Alla LIAR COUNT_BIG Approx count_ oistinct CHECKSOM AGS COUNT MIN GROUPING sum max Approx-caut-distinct() GroupINA_ID (uncupit 10 1 1. returns approximate no of unique normal values in agrip select __ (columname) AS Alios- name FRom Table_Name; often started steaded obvide of all vollaris spring Count! to count no of vows in de Select count (*) From table rove; select court (column nane) From table Mone, select Cout (*) From TB where [cordn]; most malignorm and felect count (distincy column name) From Table Nove) felect Court_Ma (*) From TR; Sum; * ACCILL) SCREET ASCH Corbe Volum Cot Rest most select rum (Columnare) From TB; felect sum Cookimn_nage) From TB where (candn);

to telephone and there work. Allaci. Select Alta Coolumn none) From TR; MIN (1: (1) amount only 6907 10/5 this Select MIN Column nand) From TR; MAY; (wir ag 1 100) will be about a complete to many CHECK SUM - AGG(): select checkson_AGG (column_name) From TB) mymas district Grouping: maken a calculation on a set of A specified edemin expression in a Group by list is aggregated as Comply return 1 for gangates The 0 for non aggre in rout set telect anapire Column name) From TB grup by Column nave; Crociping_lo 11. whenever explored to our standard verment is concatends he of pours Funco applied to all down STO EV (): MOIN MON COMA LA CHON MONDO return statistical standard deviate of all values in specified expussion select STDEN (column_name) From TR; Sclott Count (+) FRATE bubb now WAR (): returns variance of all valers (200 and 1) 1000 1000 String manipulate funde, compliante and month to the sold It is a built in function which take an oilp string of returns ALCO COUNTRIA CX FRANTES String or numeric value. * ASCIIC): seturs ASCII Coda vola Ot left most characte * CHARIT: returns Single byte Character wim speciated integer code * Char Inden(1: Select ASCII (Colonnome) AS Alice-news From TB;

OF CAMP INDEX!); Searches for 1 character express c inside a second character -

when , when all , Intered DATNOER;

Jetur stort position of first occurren of a notion in specifical express or zeros if the pattern in not found

select column-name Charinden (enp to find, enpto leave) From TOS

* CONCAT():

Diring of almore string value in an end-to end namor

* Select CONCAT (Column none 1, 11, Column nave 2) As Alice None

* OIFferen():

* LEPTE):

RICH SET ONG LOT seturs the left part of character string with specified no of IN BETWEEN LIKE, CX characters. search to specified rather mostly and balon

Scielt LEFF (colom nave, 3) AS Alice-nave From TB) Lower - retain there enp after contests uppar can to laner can

LTRIM ():

seter a character exp after it removes leading blanks could do get value belta in RTRIM(1) Index applied the amount will all one a should

a u u trencale all trailes speece

select them (colors - nove) Form This FIRIM

TRIM! 1

server May Character Character or other specifical Character Erro Start & End of Aris Held trim Coolem nave) As Alicy - nave from th;

SET operates

Union. Junian au , Intere at.

select Coolemnan, 2, - 1 Fmm takel.

Coolamn-none 1, 2, --) Pm Table 2.3

EXCEPT:

returns any distinct value from left select query that are not a found on right select green

select column 1, column a From toll-1

excem select colom1, u a u-2

RICH- Fet operator

IN , BETWEEN, LIKE, EXISTS, IS NULL, SOMELACL JANY

IN! search to specified value matches any value in let at multiple values was the last

select column-name co From TR where column now IN Chelect Statement); has a first quarter of the

Between:

cored to get values with in a range

select it From the whove Column - name bothern valed | And value; LIFE, some which he wanted

server stars there the transition of once specifical

SQL constraines

NOTNULL, Unique, -- 10 kg, --

SUB Query:

a court for norpers of perferring three or wred to seturn data that will be used in main guess as a condo to further restrict data to be retrieved

Grant By Water

select column_none (5)

From TRG)

where column name operator

-, (1), >= , <= , | N, D| were (select colons_novels)

(an table nare(s) ter our by voller lead to work bear

[abor corder] migus while of could landed; a could, notely (

stice (does have to than its country their up (NED. HILL)

WITH Class allow you to give a Rib-Revy block a name which can be referenced in servord places within the main sgl quers. ALLAIES (AS) would be a control of the same of the same

are used to give a table, or a column in atto tase, a temp new E OP LAID (NULLIB) P.

beyond wild to eliminate all chaptical records a feel this only

Fliet DISTANCT Column naves (5) From TB;

I thed to among identical data into graps with my help a some temons.

Tused usually to purpose of performing closers and

a conden to started nestant state of nome a select coss from TB anuppy count nave(s)

Group by Balapi

In add to group by, it "rolls up" results into subtotals grand totals.

· For grup by volley (a16) he results how groups for unique valay of (a16), (a1 NULL); 4 (NULL, NULL);

felect colon name(s) tran TB Group by Roll up (NCS), HTM

Croup by Cupting and a sole of the hadle would AThe

Crectes grups for all possible combinators of columns (2A) 13/ALL

For gov, (a16) (NOIL, b), (a, NULL), & (NULL, NULL),

SELECT CN(S) From TB Grup By CURE (CNCS)) the Hard like the change of the Harden

HAVING

specifics search condu to agre of agreed.

Order by.

- of Borts data returned by query in 191 server
- By default, order by lorts the data in ascends order
- where can und beyond DESC to MA M data in descenden order & Kenwall Asc to lord in attenda

SELECT CONCS) FOR TO OPPER BY EN ASC DEG

wheel to specify a condo while fections data from a street table to by Joinn's with multiple tables

selet color-nove (s) From to the condo.

JOINS

Joins, helps us to combine almone tables to portain variety

-) without SQL Dins, there is no concept of data normalizare his one have to stare the entire data in 1 table.

6 types

1) INNER JOIN: SEE MICH 1500 IL WILL HARD TO THE

return rows preset in both the Last table of right band only if there is a match. other wise 3en.

SELET CNCS), From TB INNER JOIN TB ON CONDO

21 LEFT COUTER DIN:

return all nows in LETT Hable of matching nows from Right.

SELET CN (S) From TR LEFT JOHN TB on Condo

3) PLANT (OUTED) JOW:

Some or above . _ | Dailed over dashard up a dast

S



PIGH DIN



(410) 715) C

De le la colle

PFOLL OUTER JOIN!

Peters read contain row Grow LEFT & RICH!

SELET SELECT INT From T; FULL OUTER DIN JAM 2 ON

DOIN_predicate.

1) reit Din:

relet select list to TI INNER DIN TI on Ph-Par

WHOP

6) Choss birty of the style of the open and and the

produces contession produces of allower tooken select select list time to cross sorn T2;

UPtate Join: It is both that will in though work with

Join clause done with update statem INNER JOIN ! left outer pin is used in update pour

De le te join:

enner punt, autor Din used in delete our.

DELETE table A for table A [INNER] LEFT] TO IN TABLE ON Predict where pudicle;