CONSTRAINT Order-FK FOREIGN KEY COID REFFENCE CUSTOMERCIA)

ON DELETE CASCADE

ON UPDATE CASCADE

)

Set default: * Lustomer table created by same commad

CREATE TABLE orders (

Order-id INTEGER PRIMARY KEY,

CIA INTEGER, don't write NOT NULL because

CIA INTEGER, don't write Not NULL of white cid white have into NULL of the delety.

Order-date DAJETIME NOT NUIL DEFAULT CURPENT-

CONSTRAINT order-FK FOREIGN KEY (Cid) REFRENCE CUSTOMEN (Gid)

ON DELETE SET NULL,

ALTER TABLE COMMAND

The Alter Table statement in SOL is rused to modify the structure of an existing table. Some of the things than can be done vising the Albertable Statement include

- 1. Add Wumn
- 2. Delote columns
- 3. Modify columns

VARCHARL LIS) NOT & # ALTER TABLE Customers ADD COLUMN password NULL, add column in enisting table # ALTER TABLE customers ADD COLUMN PAISMOND VARCHARLIST) NOT NULL [AFTER name] - An me Add column at specific place austoniers ALTER TABLE ADD COLUMN Pam-number VARCHAR (255) AFTER MISMANNE, # 0 ADD COLUMN Joining-date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP Add multiple column at specific place # ALTER TABLE customers DROP COLUMN Pan-number Ly Delete endoting column in a table ALTER TABLE unstoner # DROP WWWN paismord, DROP COLUMN joining-date Ly Delete multiple column

Modity

ALTER TABLE automen

SURNIGIME INTENGR MODIFY COLUMN change type

· Der Sante Selfe

Cs modify single or multicolumn

Editing and Ocleting Constraints

- Add ALTER TABLE customes ADD CONSTRAINT Customer-age (HECK (age>13)
- 2. Delite > ALTER TABLE WHOM DROP CONSTRAINT whome age
- 3. Edit not > Not edit constrain > first delete then add

Adols If you adding any constraint then firstly check column value match the constraint condition

rame age > Already have column with value and add constraint than age value

is not less than 10 less abrendy value is less than 10 then produce error, so, first charge value.

Insut INSERT INTO Database-Name. Table-name of Cherrid, name, email, Values (NULL, Initish", 'nitish@gmail.com', '1234') VALUES # ansert without column name:

INSERT INTO Batabase-Name. Table-name VALUES_(NULL, 'aukit', 'aukit@gnail.com', 12345')

Insut in specific column INSERT INTO Database-Name. Table-name - (name, emerle)

VALUES (ramit!, 1 amit@gneil. Lam')

* Order of columns is not important while inserting the data. we can calso write (email, name).

Twent Multiple Values INSERT INTO Compris. ensers VALEUS

(NULL, I rishabil, I rishabil@gnail.com', 12345'), (NULL, 'robit!, l'robit@gnail. cent, (105481),

(NULL, robon!, Brohan@gnail.com!, (12344')

select all select all, optional write # select all hows and columns. WHERE I carupus. smartphones SELECT & FROM database Table not applying any all wlumm condition or all nows Filter 7 chahiye Select some columns and all rows SELECT model, price, rating FROM Campus. Smarphone Column name alia -> Remaining colo oldnam of # Rename Column name AS 'operating system', model, battery-capacity as mA4 FROM campus. Smathons men name of Column Create expression rising colo # Create mathematical enpusion SELECT model, squt (resolution_width * resolution_width) + resolution_width * everigent * revolution-height)/strem-size AS (ppi) PROM campous. smartphones # Create new column and write value of new column SELECT model, (smartphone) As 'type' from Campus smartphone model Smather

- Distinct (unique) value from a column	T
SELECT DISTINCT (brand-name) As 'All brands'	6
FROM Campus. smartphones	
- Distinct Combination	
# Entract runique combination	6
SELECT DISTINCT brand-vary, processor_name?	6
FROM Campus - smartphones	6
	6
- Filter grows where Clause all columns SEIECT & FROM Campus. smartphone	Ē
SEIECT (F) FROM Campus smallprushe	•
WHERE beand_name = 'Sommering' Sameny in wand_	(C
WHERE beand_name z 'Samsung' Sect Mose nows which Loutain Samsung in Wand_	Ĉ
nane colemn.	
- Between	Ĉ
com lambus. amai pro	(E
WHERE price > 100001 AND price 2200001	(
OY	
SELECT * CROM Campus. martphones	(
SELECT * CROM Campus.	
SELECT * CROM Campus. NOTICE PRICE BETWEEN 10000, AND 120 800,	(
as a second control of the second control of the second control of the second control of the second control of	0
- Order of Owny Execution	(
	1
From > Jain > WHERE-> Group by > Having > SELECT >	
Distinct -> Order by	d
	11
	Ŋ

- IN and NOT IN SELECT * FROM campus. Smartphone WHERE processor-brand = 'snapdrayou' OR processor-beaud = rengnos Campus. Smartphone SELETT * FROM WHERE processor_brand (IN L' snapgragon', 'enyon') cons, Value present in processor-brand smartphone SELECT * FROM Campus. NHERE prousor-brand NOTIN (snapdragon', 'engonos') those where surpolagon and engines not present in perocessor - brains - Update UPDATE Campus Somart phone SET processor-brand = 1 snapdragon' WHERE processes brand = 1 dimensity # Multiple Column UPDATE campus. Smart phone SET email= "nition@yahoo.con", password=1234(8) WHERE name = 1 nitish'

100

- Deleti FROM Campus. Smartphon DELETE WHERE Price > 2000000 Types of function in SQL SQL Function reses defined Built in name 840 Scaler Aggregate 11 12 T (mound) 6.21+6 (summary) Stulliple Ag = 14 Gingle Value value Aggregate Aggregate function + MAN/ MIN SELECT MAX(Price) From campus. Smartphone MIPHUL) SELECT AV9 (Rile) From Campus. Smartphone + ANCY WHERE brand-name = 'apple'

•

•

P

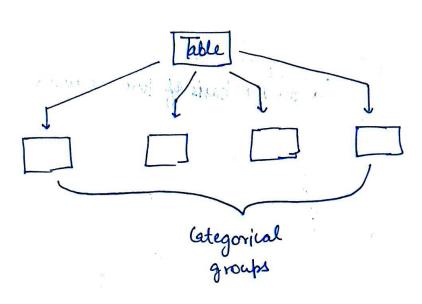
SELECT sum (price) FROM Campus smartphone # Sum WHERE brand-name = lapple, # count SELECT COUNT(*) From Campus. Enrutphone NHERE brand_vame = (apple) SELECT COUNT (DISTINCT CIPTOCERO-brand')) FROM Carps. South # Count (DISTINCT) # STD (Standard Deviation) SELECT STD (Screen- 8121) FROM Campus. Smertphons. SELET VARIANCE (Screen-812e) from Confus. Smart. # Variana Scaler Function -> ABS -> all the values are positive SFRECT PBS (price- (00000) as Herp' From Campus Smooth → Round 28.1042/2 28.10 SELECT model, -ROUND (Price, 2), 2 decinde FROM Campons, Emartfolione Convert into sigh digit = 28.10421 = 28

-> CEIL / FLOOR befor inter nent integr 4.9 > 4 4.9 + 5 4.1 34 4.175 CEIL LScreen- Size) FROM Campry. Snortphone YFLOOR Setting SELELT * FROM campous. smartphones nother brand-name P = 'Sampliny' suem-size ORBER BY y descending Set limit of rows WHERE beaud-name * FROM Campu. smartphones z 18amuny! LIMIT 5

Great fine lines show your Schem-size DESC ORDER BY only 2 how Select model, battery-capacity FROM campus. Smartphones battery-capacity DESC LIMIT 1,1 ORDER 0-4 skip 1000 -I skip - 0 start nent a now print

Sort one the basis of Two Column

SELECT brand-name, price FRON campus. Smoutphones ORDER BY brand-name, price ASC



according to brand-name of phone and count of Group by phones.

SELECT beaud-name, COUNT (*) As 'num-phones'

FROM Campus. Smartphones GROUP BY brand-name ^ DESC

Les brigher count

multiple column. On the basis of single column Group by

brand-name, SELECT

_2 columns (*) As 'num-phone', COUNT

ROUND (AUGI (paice)) As 'cong-paice'

FROM Carupus. Smartphones

GROUP BY brand name -, single column base

numphone DESC LIMIT 5 ORDER BY

Group by of multiple column on the basis of multiple column SELECT beaudmanne, processor- name, (OUNT (*) AS (num-phones), ROUND (AVG [Primary_cam_reso) As ag_cam_reso' FROM Campus. Smartphones GROUP BY beaud-name, prounor-name Is on the basis of two column Having - filtering on Geoupy and WHERE- Filtering on normals Cys: - find the any rating of smartphones brands notich have more than 20 phones. SELECT beaud-name, COUNT (*) AS (count), AVG (prote) As avg-perce, PROM campus. smartphones GROUP BY brand-name HAVING count > 20

Ques find the top 3 beauty with the brighest and sam that have a refresh rate of at least 90 Hz and Fast charging available and don't consider brands which have less than 10 phones.

(A) _ SELFET brand-name, COUNT(*) AS 'Cound', ROUND (AUGIC Lam-capacity)) As 'aug-earn' FROM campus. smartphones NHERE refresh_rate >= 90 AND fast-Charging-available=3: 7 GROUP BY brand name HAVING court > 10 -3 ORDER BY aug-ram DESC LIMIT 3 Que: - Aind the aug price of all the phone beauds with any rating > 70 and rum phones more than lo among all 5g enabled phones SELECT bland-name, Avor (price) As 'ang-price' FROM Campus. Emantphones WHERE has-59 z 'True' GROUP By brand-name HAVING AVGC nating)>70 AND COUNT (*)>10 Practice 1. Find the top 5 batsmas in IPL 2. Find the 2nd brighest 6 britter in IPL 8. Find vinat koheis performance against all IPL teams 4. Find to 10 botsman with Conturies in IPL 5. Find the top 5 batsman neigh brighest strike rate who have played a min of too balls