Chapter 5:	- Structure ( SQL	Puery Language	19889
SELECT E Dist FROM < table	tinic] < Gl. list>	(15-10-2018)	18.8
L WHERE (G	anditions 7		-
E ORDER BY	< Gl. List> ]	[ ] افتاری	4
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	and the second second	Sleep & the stand	
EX Sailors (sid, snar	me, Maring, agel	A A A A A A A A A A A A A A A A A A A	
Shines while Early a start			
Boats (bid, name, color)			
			•
Reserve ( <u>sid</u> , bid, date)			
2015 0-	e R	0	
SELECT Sisneme		SELECT sname	
FROM Sailors S	اعادة سمية	FROM Sailows,	
compiler start for hela			•
SEIECT DISTINCE FROM Scalows	and the second se	SFLECT Sname FROM Sailours, ;	

Note Distinc works on Explos 2 يذا تتكتبها كليش لأذم تعوا Asume A 18 A 19 DISTING A 18 A? SELECT Sige Sishame Sishame the FROM Sailors S 19 SELECT DISTINIC S. Sname, Singe Reult S.age FROM Sailons S S. smame A 18 WHERE Singe > 18 AND Strating <9; A 19 SELECT DISTINIC Sisname As FullNome, Siage as age FROM Sailors WHERE 3 Result Sage >18 AND Strating L9 FullName age A 18 A \* Default these ascending 19 .... ORDER BY desc ORDER BY Sige, Sisname 3 -ORDER BY Smithing desc ---3

3 How to make doin? Ind sailors who reserve at least 1 Boat? Ans SELECT Sisname TT ( Q ) FROM Sailors S. Revere R WHERE Siscl = R.s.d B SELECT S. Sname FROM Sailows & Join Reserve R on Sisid = Risid; الاستامر الى محنوا خارب أهو X SELECT S. Sname FROM Sailons S, Revenues R, Boats B. Where Sid = Risid AND R.b.d = B.b.d AND B. color = 'red'; Note Join Conditions = No. of the Join Takles -احار الاشفاص إى حفرا خارب الحر أو الجنع Ex Select . S. snome from Sailors S, Reverve R, Boats B Where I.B. color = i red OR B. color - green'l,

H 8 SELECT S. Sname FROM WHERE UNION SELECT WHERE green' ; Ex Assume we add salary to sailors a sailors ( , salary) For View SELECT OIL & S. Salary As Tax ما يعدّل على الدان FROM Sailons WHERE Size > 18 WHER Sige > 1 2\* Sirating i A productor is tell and youngy A Ex SELECT S. Snome capitale Letter FROM Sailory S WHERE S. Sname LIKE ' A%' ; M matches a or more char Care Servitite · Ashd' > Ahmed - Ad -

3 'A ' S. Sname LIKE 150 A 2 like '\_a'l' chan only Matcher one S. Sname الحرف الثاد المسماء الاستفاص الحت 'A\_ %d' A in Ali آع من على الألك ٣ حردت راح وكلان الآم

(22-10-2018) Sailons (Sid, sname, aage, rating Boats (bid, bname, colon) Reserve (sid, bid, day) Ex List Names of sailons and with rating [1 on 2 on 3] Answer Select S. Snome from sailors S where strating IN (1,3,5) or select Sisname from Sailons s where s. rating = 1 on s. rating = 3 on s. rating = 5 or select S. Sname from Sailors 5 where sireting IN (solect S2. rating from sailors se where S2. rating = 1 OR S2. rating = 3 OR SZ.rat.ny = 5) PREVIOUS Called "Nested SQL"

EX اسماء عسمانه الى جزوا خارب أجمر بدون منه 2 Me Select S. sname From sailors s Where ( Select R.s.d S.s.d in FROM Reserve R Where R. bid In 1 select B: bid Compiler From Boats B Where B.color = 'Fed' The Annalas ): Ans By using join Select Sailors S, Resolve R, Boars B FROM S.sid = R.sid and Where R. bid = B. bid and B. color = 'red',

3 Select S. Sname IN = OR From Sailor S Not oR = and where S. rating Not TN (1.3.5) 5 8 1 7 3 4 بعب كلس عزهم => and (S. rating <>1 and s. rating <>3 and s. rating <>3 مع أسماء الانتخاص التي ما حجزوا قوار عمر عمل Select Sisname From suilers where s.s.d in (select R.s.d FROM Revenue R where R. bid Not In ( select B. b.d From Boats B where B. color = red' ] 1: anon E F. الإشخاص الحت ما محتوا ولا غارب Sdect S.Sname From suilory where sid Not In Select R.s.d From Reserve R)

Agregate Functions : JET who who Ex Lind minimum age 2 EWI is what! There is a Junction in mysel called min (...) Annuer Select min (sage) FROM Sailons S, A Another function Max & To find max value. 60000000 e to Find Average ANg Sum of all Sum: to find the summation Count : to Court # of tuples 4444 Ex Lind # of sailors کانه کی د بوشن Select Count (\*) = Count (ssid) FRom Sailors S; > combination of alumny Es : const usque age ? Sdect Gunt (Distinct Singe) 21-19 cm 1881 ilin From Sailors S; 3 pld 20 19 21 E SP ENS Box X just واحد Ft & Select SZ sname FRam seilers \$2 where spage = the r ( select. Min (s.ye) select Min Isingel , Sinone FROM SAILONS SJ FROM Sailor S, the

Common mistake Note where min lagel ع فقل مح Select Empire abelle ∉ Nested queres easier than Join !

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1 24-10-2018 Ex Find Aug Rare of sailows with Making 7 Ans select AVG (age) from sailons s where similing = 7; Ex Find Number (count) of sailons with age greater than 18 on equal. Select Count (\*) from Soilons s where sage >= 18 \* Group By : Used when you seen (for each) in the question. Sid age raing Seloct from Sailons S Group By Siteting 19 7 2 17 9 3 Results 4 19 7 S 20 8 4 - Groups 6 21 8 7 18 7 Mating = 7 8 9 5 8 17 9 1 3 5 6 9 19 8 2 8 9 4 7

2 Select Ayg (sage), strating from Sailors s \* graub by srating by sraking order Avg(s.age) Means First column Which is Avg(s.aget which is Avg (age) S. rating 7 ` 185 17 9 19.5 8 21 5

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3 Ex Find Sailors who reserve all Boats Ans select Sisname from Sailons Where Not Exisit ( select Bid for Boats B where Bid Not IN (select Distaic Ribid from Reserve R where Risid = Sisid)

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Ø jour & [Group By Kals> [Having K conditions > ]] H Sclect S. Nating, Aug (S. yel FROM Sailons S Group By snaking Hoving Court (A) > 2 ; where (' tuples ' l csr dim Having شط على المحموعة while Find the name of soilors who have recoved at least 2 But, Any sdect Signame as names From Sailous S, Reverse RI, Reverve R2 where s.s.d = Risid And s.s.d = R.sid And R1. b.d <> R2. bid ; Ex Diplay and Inclement for the nating of persons who share sailed two different boats in the some day? select from salars 5, Recove R., Rueve Re where S.s.d . R. s.d And ssid = Rz. sid And R. b.d 1= Rz. b.d And R. Date - Rz. Date