Average - Price 1	or Mustains Most	4 17 - 15 - 10130 - 10 - 10 - 10 - 10 - 10 - 10 -	Carragedus Abus Waldedz Brammuz . N	Busey - 1 - Reference the	(Med of a solot seek of whole a	To OL S SOFIU	Presto Restaubach French
Food Phradise From Tosby Treaks	5	and the second	With Eubspar 1865	Retained the total restance generally	(Uc) OT.	2 levot ca (02 + 117 - 02	

Mimi- To objecti pertorm advanced query processing and test if tensistics by designing optomited complex querics

1. Join Queries

-bouging consponer, a vagere around migh the carries -

400

15-10-2501

7004 - ten

SELECT & oxder-ID, o. oxder-Date, o. Order-Total

C. CUST-Name

FROM Order Table . O

JOZN Sustames c ON o cost -ID = c: cust -ID;

Query-2',- Reboves all . Menu-items along with the restaurant name that offers them

SELECT m. I tem Name , m. Price , r. Rest Name

FROM Meru-Ibams. m

JOIN Restaurant + ON m. Rest\_ID = Y. Rest\_ID;

Query-3,- Rebaives all order and their delivery state

SELECT 0:0xdex-ID:0.0xdex-Total, d. Delivery -

Status de Delivery - Time

FROM OrderTable . o

G. Order-ID!

by doughou way informati

Ordex-IO	Order-Date	Order-Total	cust-No
1	2025-01-20	800	thice
2.	2025-01-21	500	806
3 1	2025-01-21	7 700 JABA	chastic

Ibem-Name Price Rest\_Name Pizza 450 Food Pasadisc 240 Busges FOOD Paradise sushi 720 TOSTY TREATS Pasta 360 Food Paradise 315 estoog Global Eats.

Ordex-Io	Order Doke	Ordered about	Delivery - Time
1 =	1800	Delivered	2025-01-20 NI:30:00
2	200	Rending	LULL
, 3	605	Delivesed	2025-01-22 16:00:00
201-	-28		-1120 98

The program bas enoughed sussepuly

INNER 20IN An Imer Join rebailes becards that have motching values in both tables Quexy, - Rebrieves all oxders along with their customer Rames SELECT 0.089CX-ID ,0.089CX-DAKE, O.08GCX-LOFOX, c.cust-Nome FROM OxdexTable o INNER 2011 compounds C ON. O. comp-ID=C. Comp-ID; 131/A Sugar FELL ORPER 2010 20116 D# 209 An 16th outer Join rebrives all records from the left bobble and the mached occords from the right table, if no math is · hund, NULL is returend for colowns from R.T Bood - Revoluce all customers leven those who haven't SELECT C. cust Name, 0.0 rdex Ip, 0-order-Total Placed any orders FROM Eustomes C LEFT JOIN cordex Testre o ON e-cast\_ID=0. Cast\_ID; Right Outer JOINDOOF 030:48 it rectives age records from right table matched records

is rectives and oxders and rame of cust who winds

include order-to. o. Order-Total, c. Cust-Nome SELECT 0.08dex-to. 0.08dex-Total, c. Cust-Nome

FROM Oxdestable o

BIGHT 2011 CONFORMER CON.O. CORPTD = C-CORP-1D",

1 md 6	202.5-01-20	0 0	· Mice
ď	12-10-2505	-	
	-	200	989
3	20 25-01-22	400	Chox12
Section Section	John war a	Specie de	Selston " Edine
		me is rouge	market Commen
PACT - 1.10017	2 6.07 2	24.0000	Jerry Linas
			1100 - 1001
Custo-Name		0x4ex-10	Order-John
Alice		1	FOLL 0198
- 1080P	50 × 02 - 03	50 CONGO.	30 0 00 CO
chastic	Air	0	400
ato chien prolo	100	2-113-01-40 CA 60 CA 60719	Sact 1 1 2169
	" Her	rotto that smon	nor dinsender
0	0.4 A.O.	They sould soing a good wast Line	and Lat. Trend
		M. emdz.unsts	
25-408.7-		OI-40A. TO UD Y Jus	TOIN Restourent
Ordex-10	180	.ordex-Tobal	Cus b-Name
- GOOM	WIND OWN	200	Alice
6 Stilled.	12. 6. Loto - 5 366	0: 37-8	98000d
3	+	700 mil - Com	- Charlie

1847 3811 Belivery & ON 0.00068-10 =

9 54903-20.

FULL OUTER JOIN ONDESTABLE TO ON . CLUST -10 = 0. Co. query r Retrives all possible combinations of custo it admines the castesian products of two table. Quesy: - Retrive all menu beans that belong to the same SELECT C-Cust-Name, m-loca Name, m-Price SELECT C. Custo-Nome, 10. Order-10, 10. Order-10tal it setraines all seconds from Both Tabels B' SELF JOIN Joins a Fable with itself It is useful for Aucry: Rebrives all customess and all orders. if no match is found nous is scorosned T popor June 1 See 1000 CROSS JOIN . Menu-Ibam m, SELF JOIN even if there is no match アンスカイン ついかい 日間 Heardrical (by) comparision darked FROM Customer C restaurant as another item Leners and menuitems FROM Customes C Full Curtes Join CROSS 301N

SELBCT MI-I FEM NOME AS ITEM! M2. I bemN ame is

Iben 2, r. Ress-Nome

FROM MENU-Ibem m.

JOHN HENL IFETH ME ON MI. REST ID = ME REST ID - AND

JOIN RESTAURANTY AND MIRRSHID - r. Rest- 107

m , step\_10 1 = m. Itom\_10

The same of the sa	Brdcy_Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Mary .	Cashon oney	ALCONOMO TIE.	servedes med como sus and	2.70 . Kaning - 12.10	Sport and and so	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Food, Pasodisc. dien	والما يحريب وا	Sugar	odise seebal	7 F. 1.1. 0000	ET 5.42 20%
	· Order-10 ordes	-	3 Teb	Ibem Name price	Burges Contracts	Sushi AL	Merch at med county Nation out to	Burger 112.70	Logob cotron of poster o o sound for o sound of son	01-1end-Heim 20 2102 Aggress	Burger Food, Page	There and Food paradisc and a control of the contro	Pastorio con Food Pa	Pitta ont ti Bad posadis	0 340/23600	CONTRACT CONTRACT
	Cust-Nome.	Mice	Charlie	Cush-Name	Alice And A	.Alice	Alice to mad	0.5	Logo cotra-o.	:01_12m.1 0.01_12m	Piero	distora of de	Burger and to pasterno coo Food Pasadise	Posta tus si lutor winded out to Bad posadis.		, J.T JUID - 95- JUID O THO I SAMPLUS UNOT

2. Equivalent Queries

Query-1: Rebrives all customers who placed orders being a join (equivalent to a subquery)

via gniso

sover pistinct coust-Ham

FROM CLISTOMOS C

JOIN OrdesToble O ON C. Cush -10 - O. Cush-10,

Equivalent subguessi

SELECT RUSH-Name

WHERE CUSE-10 -IN (SELECT - CUSE-10 FROM OrderTable) FROM CLISBERICS

3. Recursing Queries

Quesy-1'r Generabe a recursive guery to kind all oncestors of a given category in a hypothetical "

Henu category" toble

CREATE TABLE Menu-coregory COPLID INT PRIMARY KEY, Cat-Name VARCHAR (SD)

Posenk-cak-10. INT

1NSGRT INTO Mena codegging (cat.10, at. Nome, parent -cot-10) values (1, 100d', 10 wet);

145 GRT 11070 MENU-COREOSE CLOSF-10, COK-NAME

Pasent\_cut-10) VALUES (2, 'I takini, 1);

Parent-Cust-10 TOTAL STEE STOTES OF STATE ASTUD LIOT the statement of original states a water a wish See the second section of the secti ( ) · サーバー !! Lastinasa bou seson 57 10 1 20 20 - 100 11 1 3 000 14 42 W. 3 10 31.92 Smot with a mile MULT COM CS022 2016 Washing all maring the territor of Guera, Prince of the state when were a party to the Live on sti enthone to documental Peter State with LEST and bedieve in it descriptions should evil whether For wolfensel I. son, long to Smoot water in 13335 - 01 - 120 East 300 = 01 108. All MO IN TOST CONT. all works E 41 425 1 of 11 200 10 20 10 10 20 10 " hart to divine a notation sale court. And the second 2 y wordens " mend Lunsin. 1 war I fran 1 CLS 6\_NOME Food I bodion Cust-10

JOIN COREOGOSY Hierachs Ch ON MC-COK-10 SELECT = FROM CORCOGY HIERACKY SELECT MC. COALD , MC. POYENT - COA - 10 BELECT (ab-10, cat - wame, parents - cot - 10 was not see the did - by Ball of the Unite WHERE cob-Name = Prizzel with cobengry Hierachy Asc FROM Meny-cakeogry mc =ch.paxent -cok-10) FROM Menu cakeough UNION ALL

Recursive Query

201-52

VEL TECH - C. RESULT AND ARALYSIS (3) PERFORMANCE (5) VIVA VOCE (3) RECORD (4)