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 CECS 323 LAB
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Practice SQL Lab 18-24

18. Display every order along with the details of that order for order numbers 10270, 10272, 10279 (23)

Hint: this can be done two ways. Try both of them. Which is easier if you have a large number of selection criteria?

```
Select o.orderNumber, ORDERDETAILS.* from orders o
NATURAL JOIN orderdetails
WHERE o.ordernumber = 10270 OR o.ordernumber= 10272 OR o.ordernumber= 10279;
```

15	10272	S18_4027	25	126.39	5
16	10272	S32_3207	45	56.55	6
17	10272	S50_1514	43	53.89	4
18	10279	S18_4933	26	68.42	1
19	10279	S24_1046	32	68.35	5
20	10279	S24_2766	49	76.33	3
21	10279	S24_2887	48	106.87	2
22	10279	S24_3191	33	78.76	4
23	10279	S24_3432	48	95.30	6

19. List of productlines, the productline's text description and vendors that supply the products in that productline ordered by productLine and productVendor. (65)

```
SELECT DISTINCT productLine, textDescription,products.PRODUCTVENDOR FROM
ProductLines
NATURAL JOIN Products
ORDER BY productLine, productVendor;
```

#	PRODUCTLINE	TEXTDESCRIPTION	PRODUCTVENDOR
51	Trucks and Buses	The Truck and Bus models are realistic r...	Welly Diecast Productions
52	Trucks and Buses	The Truck and Bus models are realistic r...	Welly Diecast Productions
53	Vintage Cars	Our Vintage Car models realistically port...	Autoart Studio Design
54	Vintage Cars	Our Vintage Car models realistically port...	Carousel DieCast Legends
55	Vintage Cars	Our Vintage Car models realistically port...	Classic Metal Creations
56	Vintage Cars	Our Vintage Car models realistically port...	Exoto Designs
57	Vintage Cars	Our Vintage Car models realistically port...	Gearbox Collectibles
58	Vintage Cars	Our Vintage Car models realistically port...	Highway 66 Mini Classics
59	Vintage Cars	Our Vintage Car models realistically port...	Min Lin Diecast
60	Vintage Cars	Our Vintage Car models realistically port...	Motor City Art Classics
61	Vintage Cars	Our Vintage Car models realistically port...	Red Start Diecast
62	Vintage Cars	Our Vintage Car models realistically port...	Second Gear Diecast
63	Vintage Cars	Our Vintage Car models realistically port...	Studio M Art Models
64	Vintage Cars	Our Vintage Car models realistically port...	Unimax Art Galleries
65	Vintage Cars	Our Vintage Car models realistically port...	Welly Diecast Productions

Inner Join

20. select customers that live in the same state as one of our offices ordered by customerName (26)

```
SELECT customers.CUSTOMERNAME FROM customers
INNER JOIN offices ON customers."STATE" = offices."STATE"
WHERE customers."STATE"= offices."STATE"
ORDER BY customers.CUSTOMERNAME;
```

13	Men 'R' US Retailers, Ltd.
14	Microscale Inc.
15	Mini Classics
16	Mini Creations Ltd.
17	Mini Gifts Distributors Ltd.
18	Mini Wheels Co.
19	Muscle Machine Inc
20	Online Mini Collectables
21	Signal Collectibles Ltd.
22	Technics Stores Inc.
23	The Sharp Gifts Warehouse
24	Toys4GrownUps.com
25	Vitachrome Inc.
26	West Coast Collectables Co.

21. select customers that live in the same state as their employee representative works (26)

```
SELECT customers.CUSTOMERNAME from customers
INNER JOIN employees on customers.SALESREPEMPLYEENUMBER =
employees.EMPLOYEEENUMBER
INNER JOIN offices on employees.OFFICECODE = offices.OFFICECODE
WHERE customers."STATE"= offices."STATE"
ORDER BY customers.CUSTOMERNAME;
```

1	Auto-Moto Classics Inc.
2	Boards & Toys Co.
3	Cambridge Collectables Co.
4	Classic Legends Inc.
5	Collectable Mini Designs Co.
6	Collectables For Less Inc.
7	Corporate Gift Ideas Co.
8	Diecast Collectables
9	FunGiftIdeas.com
10	Gifts4AllAges.com
11	Land of Toys Inc.
12	Marta's Replicas Co.
13	Men 'R' US Retailers, Ltd.
14	Microscale Inc.
15	Mini Classics
16	Mini Creations Ltd.
17	Mini Gifts Distributors Ltd.
18	Mini Wheels Co.
19	Muscle Machine Inc
20	Online Mini Collectables
21	Signal Collectibles Ltd.
22	Technics Stores Inc.
23	The Sharp Gifts Warehouse
24	Toys4GrownUps.com
25	Vitachrome Inc.
26	West Coast Collectables Co.

Multi-join

22. select customerName, orderDate, quantityOrdered, productLine, productName for all orders made and shipped in 2015 (444)

```
SELECT customers.CUSTOMERNAME, orders.ORDERDATE,
orderdetails.QUANTITYORDERED,products.productLine, products.productname
FROM customers
INNER JOIN orders ON customers.CUSTOMERNUMBER = orders.CUSTOMERNUMBER,
INNER JOIN orderDetails ON orders.ORDERNUMBER = orderdetails.ORDERNUMBER,
INNER JOIN products ON orderDetails.PRODUCTCODE = products.PRODUCTCODE,
INNER JOIN productLines ON products.PRODUCTLINE = productLines.PRODUCTLINE,
WHERE orders.SHIPPEDDATE <= '2015-12-31' AND orders.SHIPPEDDATE >= '2015-01-01';
```

#	CUSTOMERNAME	ORDERDATE	QUANTITYORDERED	PRODUCTLINE	PRODUCTNAME
430	Extreme Desk Decorations, Ltd	2015-05-16	40	Motorcycles	2002 Yamaha YZR M1
431	Salzburg Collectables	2015-05-17	12	Classic Cars	1968 Ford Mustang
432	Salzburg Collectables	2015-05-17	10	Classic Cars	1968 Dodge Charger
433	Salzburg Collectables	2015-05-17	34	Classic Cars	1970 Plymouth Hemi Cuda
434	Salzburg Collectables	2015-05-17	32	Classic Cars	1969 Dodge Charger
435	Salzburg Collectables	2015-05-17	38	Classic Cars	1993 Mazda RX-7
436	Salzburg Collectables	2015-05-17	37	Classic Cars	1965 Aston Martin DB5
437	Salzburg Collectables	2015-05-17	39	Classic Cars	1948 Porsche 356-A Roadster
438	Salzburg Collectables	2015-05-17	34	Classic Cars	1995 Honda Civic
439	Salzburg Collectables	2015-05-17	55	Classic Cars	1999 Indy 500 Monte Carlo SS
440	Salzburg Collectables	2015-05-17	35	Classic Cars	1992 Ferrari 360 Spider red
441	Salzburg Collectables	2015-05-17	43	Classic Cars	1948 Porsche Type 356 Roadster
442	Salzburg Collectables	2015-05-17	15	Classic Cars	1982 Lamborghini Diablo
443	Salzburg Collectables	2015-05-17	55	Classic Cars	1971 Alpine Renault 1600s
444	Salzburg Collectables	2015-05-17	70	Classic Cars	1956 Porsche 356A Coupe

Outer Join

23. List products that didn't sell (1)

```
SELECT products.PRODUCTNAME from products
WHERE products.productCODE NOT IN(SELECT ORDERDETAILS.PRODUCTCODE From
orderdetails);
```

#	PRODUCTNAME
1	1985 Toyota Supra

24. List all customers and their sales rep even if they don't have a sales rep order by customerName (122)

```
SELECT customers.customername, employees.firstname, employees.LASTNAME from
customers
Left Join employees on
employees.EMPLOYEENUMBER=customers.SALESREPEMPLOYEENUMBER
ORDER BY customers.customername;
```

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#	CUSTOMERNAME	FIRSTNAME	LASTNAME
1	ANG Resellers	<NULL>	<NULL>
2	AV Stores, Co.	Larry	Bott
3	Alpha Cognac	Gerard	Hernandez
4	American Souvenirs Inc	Foon Yue	Tseng
5	Amica Models & Co.	Pamela	Castillo
6	Anna's Decorations, Ltd	Andy	Fixter