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CSCI 3287

Homework 3 – SQL

1.

SELECT city FROM offices;

	city	
►	San Francisco	
	Boston	
	NYC	
	Paris	
	Tokyo	
	Sydney	
	London	

2.

FIRST - SELECT officeCode, city FROM offices;

Then - SELECT EmployeeNumber, LastName, FirstName, Extension
FROM employees
WHERE officeCode = '4';

	EmployeeNumber	LastName	FirstName	Extension	
►	1102	Bondur	Gerard	x5408	
	1337	Bondur	Loui	x6493	
	1370	Hernandez	Gerard	x2028	
	1401	Castillo	Pamela	x2759	
	1702	Gerard	Martin	x2312	

3.

SELECT ProductCode, ProductName, ProductVendor, quantityInStock, ProductLine
FROM Products
WHERE quantityInStock BETWEEN 100 AND 1000;

	ProductCode	ProductName	ProductVendor	quantityInSto...	ProductLine	
	S18_2248	1911 Ford Town Car	Motor City Art Classics	540	Vintage Cars	
	S18_2581	P-51-D Mustang	Gearbox Collectibles	992	Planes	
	S18_2795	1928 Mercedes-Benz SSK	Gearbox Collectibles	548	Vintage Cars	
	S32_1374	1997 BMW F650 ST	Exoto Designs	178	Motorcycles	
	S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	Red Start Diecast	814	Trucks and Buses	
	S32_4289	1928 Ford Phaeton Deluxe	Highway 66 Mini Classics	136	Vintage Cars	
	S50_4713	2002 Yamaha YZR M1	Autoart Studio Design	600	Motorcycles	
	S700_1938	The Mayflower	Studio M Art Models	737	Ships	
	S700_3167	F/A 18 Hornet 1/72	Motor City Art Classics	551	Planes	
►	S72_3212	Pont Yacht	Unimax Art Galleries	414	Ships	

4. `SELECT ProductCode, ProductName, ProductVendor, BuyPrice, MSRP
FROM Products
WHERE MSRP = (SELECT MIN(MSRP) FROM Products);`

ProductCode	ProductName	ProductVendor	BuyPrice	MSRP
S24_1937	1939 Chevrolet Deluxe Coupe	Motor City Art Classics	22.57	33.19

5. `SELECT ProductName, (MSRP-BuyPrice) AS Profit
FROM Products WHERE (MSRP-BuyPrice) = (SELECT MAX(MSRP-BuyPrice) FROM
Products);`

ProductName	Profit
▶ 1952 Alpine Renault 1300	115.72

6. `SELECT country, COUNT(customerName) as 'Customers'
FROM customers
GROUP BY country
HAVING COUNT(customerName) > 10
ORDER BY COUNT(customerName) asc;`

country	Customers
▶ France	12
Germany	13
USA	36

7. `SELECT Products.ProductCode, Products.ProductName,
OrderDetails.quantityOrdered as OrderCount
FROM OrderDetails
INNER JOIN Products ON OrderDetails.ProductCode=Products.ProductCode
WHERE quantityOrdered = (SELECT MAX(quantityOrdered)FROM
OrderDetails);`

ProductCode	ProductName	OrderCount
▶ S12_4675	1969 Dodge Charger	97

8. First to find the employee number of the supervisors –
`SELECT employeeNumber, firstName FROM employees WHERE firstName = 'Diane' OR
firstName = 'William';`

employeeNumb...	firstName
▶ 1002	Diane
1088	William

THEN ...

```
SELECT EmployeeNumber, CONCAT(FirstName, ' ', LastName) as Name
FROM employees
WHERE reportsTo = '1002' OR reportsTo = '1088';
```

	EmployeeNumber	Name
▶	1056	Mary Patterson
	1076	Jeff Firrelli
	1611	Andy Fixter
	1612	Peter Marsh
	1619	Tom King

9.

```
SELECT EmployeeNumber, LastName, FirstName
FROM employees
WHERE reportsTo IS NULL;
```

	EmployeeNumber	LastName	FirstName
▶	1002	Murphy	Diane

10.

```
SELECT productName
FROM products
WHERE productLine = 'Classic Cars' AND productName LIKE '197%';
```

	productName
▶	1972 Alfa Romeo GTA
	1970 Plymouth Hemi Cuda
	1976 Ford Gran Torino
	1970 Triumph Spitfire
	1970 Chevy Chevelle SS 454
	1970 Dodge Coronet
	1971 Alpine Renault 1600s

11.

```
SELECT MONTHNAME(orderDate) AS Month, COUNT(orderNumber) AS Total
FROM orders
WHERE EXTRACT(year from orderdate)= '2005'
GROUP BY Month ORDER BY Total DESC Limit 1;
```

	Month	Total
▶	May	15

12.

```
SELECT employees.firstName, employees.lastName
FROM Employees
LEFT OUTER JOIN Customers ON
Customers.salesRepEmployeeNumber=employees.employeeNumber
```

```
WHERE employees.jobTitle = 'Sales Rep' AND
Customers.salesRepEmployeeNumber IS NULL;
```

	firstName	lastName
▶	Tom	King
	Yoshimi	Kato

13. SELECT Customers.customerName
 FROM Customers
 LEFT OUTER JOIN Orders ON
 Orders.customerNumber=Customers.customerNumber
 WHERE Customers.country='Germany' AND orders.customerNumber IS NULL;

	customerName
▶	Natürlich Autos
	Messner Shopping Network
	Franken Gifts, Co
	Der Hund Imports
	Cramer Spezialitäten, Ltd
	Kommission Auto
	Stuttgart Collectable Exchange
	Feuer Online Stores, Inc
	Warburg Exchange
	Mit Vergnügen & Co.

14. SELECT CustomerName,sum(quantityOrdered)
 FROM Customers c
 JOIN Orders o on c.customerNumber = o.customerNumber
 JOIN OrderDetails od on o.orderNumber = od.orderNumber
 GROUP BY o.customerNumber
 HAVING sum(quantityOrdered)>1700;

	CustomerName	sum(quantityOrder...
▶	Australian Collectors, Co.	1926
	La Rochelle Gifts	1832
	Mini Gifts Distributors Ltd.	6366
	Euro+ Shopping Channel	9327
	Muscle Machine Inc	1775
	AV Stores, Co.	1778

15. CREATE TABLE TopCustomers (CustomerNumber Integer NOT NULL,
 ContactDate Date NOT NULL,
 OrderTotal Decimal(9,2) NOT NULL,
 CONSTRAINT CustomerNumber_PK PRIMARY KEY (CustomerNumber));

16. INSERT INTO TopCustomers (CustomerNumber, ContactDate, OrderTotal)
 SELECT c.CustomerNumber, CURDATE(), sum(priceEach*quantityOrdered)
 FROM Customers c
 JOIN Orders o on c.customerNumber = o.customerNumber
 JOIN OrderDetails od on o.orderNumber = od.orderNumber
 GROUP BY o.customerNumber
 HAVING sum(priceEach*quantityOrdered) > 140000;

✓ 188 09:08:27 INSERT INTO TopCus... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

17. SELECT * from topcustomers ORDER BY OrderTotal desc;

	CustomerNumb...	ContactDate	OrderTotal
▶	141	2019-10-13	820689.54
	124	2019-10-13	591827.34
	114	2019-10-13	180585.07
	151	2019-10-13	177913.95
	119	2019-10-13	158573.12
	148	2019-10-13	156251.03
	323	2019-10-13	154622.08
	131	2019-10-13	149085.15
	187	2019-10-13	148410.09
	450	2019-10-13	143536.27

18. ALTER table topCustomers
 ADD COLUMN OrderCount integer;

19. UPDATE TopCustomers
 SET OrderCount=floor((rand()*18));

20. SELECT * FROM TopCustomers ORDER BY OrderCount desc;

	CustomerNumb...	ContactDate	OrderTotal	OrderCount
▶	119	2019-10-13	158573.12	17
	124	2019-10-13	591827.34	15
	114	2019-10-13	180585.07	12
	148	2019-10-13	156251.03	10
	187	2019-10-13	148410.09	8
	151	2019-10-13	177913.95	7
	131	2019-10-13	149085.15	6
	141	2019-10-13	820689.54	2
	323	2019-10-13	154622.08	1
	450	2019-10-13	143536.27	1

21. DROP table topCustomers;