Daniel Kim

Homework 3

1

SELECT city, country

FROM customers

WHERE country = 'Australia'

ORDER BY city ASC;

	city	country
١	Chatswood	Australia
	Glen Waverly	Australia
	Melbourne	Australia
	North Sydney	Australia
	South Brisbane	Australia

2.

SELECT employeeNumber, lastname, firstName, extension

FROM employees C, offices O

WHERE city = "Sydney" AND C.officeCode = O.officeCode;

	employeeNumber	lastname	firstName	extension
Þ	1088	Patterson	William	x4871
	1611	Fixter	Andy	x101
	1612	Marsh	Peter	x102
	1619	King	Tom	x103

3.

SELECT productCode, productName, productVendor, quantityInStock, productLine FROM products

WHERE quantityInStock BETWEEN 4000 AND 5000;

	productCode	productName	productVendor	quantityInStock	productLine
١	S18_2238	1998 Chrysler Plymouth Prowler	Gearbox Collectibles	4724	Classic Cars
	S18_2625	1936 Harley Davidson El Knucklehead	Welly Diecast Productions	4357	Motorcycles
	S18_2949	1913 Ford Model T Speedster	Carousel DieCast Legends	4189	Vintage Cars
	S18_3029	1999 Yamaha Speed Boat	Min Lin Diecast	4259	Ships
	S24_1444	1970 Dodge Coronet	Highway 66 Mini Classics	4074	Classic Cars
	S24_3191	1969 Chevrolet Camaro Z28	Exoto Designs	4695	Classic Cars
	S24_4258	1936 Chrysler Airflow	Second Gear Diecast	4710	Vintage Cars
	S72_1253	Boeing X-32A JSF	Motor City Art Classics	4857	Planes
	NULL	NULL	NULL	NULL	NULL

4.

SELECT ProductCode, ProductName, ProductVendor, BuyPrice, MSRP FROM products

WHERE MSRP = (SELECT MAX(MSRP) FROM products);

	ProductCode	ProductName	ProductVendor	BuyPrice	MSRP
•	S10_1949	1952 Alpine Renault 1300	Classic Metal Creations	98.58	214.30

5.

SELECT productName, MSRP, buyPrice, (MSRP - buyPrice) AS margin FROM products

WHERE (MSRP - buyPrice) = (SELECT MIN((MSRP - buyPrice)) FROM products);

	productName	MSRP	buyPrice	margin
•	1939 Chevrolet Deluxe Coupe	33.19	22.57	10.62

6.

SELECT country, Count(customerNumber) AS 'Customers'

 ${\sf FROM}\ {\sf customers}$

GROUP BY country

HAVING COUNT(customerNumber) > 5

ORDER BY COUNT(customerNumber) DESC;

	country	Customers
Þ	USA	36
	Germany	13
	France	12
	Spain	7

```
7.
```

SELECT C.productCode, C.productName, O.quantityOrdered AS OrderCount

FROM products C, orderDetails O

WHERE C.productCode = O.productCode

ORDER BY OrderCount DESC LIMIT 1;

	productCode	productName	OrderCount
•	S12_4675	1969 Dodge Charger	97

8.

SELECT CONCAT(m.firstname, ' ', m.lastName) as Manager, CONCAT(e.firstname, ' ', e.lastName)
as Employee

FROM employees m, employees e

WHERE m.employeeNumber = e.reportsTo

ORDER BY m.firstname ASC;

Manager	Employee
Anthony Boy	v Leslie Jennings
Anthony Boy	Leslie Thompson
Anthony Boy	y Julie Firrelli
Anthony Boy	Steve Patterson
Anthony Boy	Foon Yue Tseng
Anthony Boy	George Vanauf
Diane Murph	y Mary Patterson
Diane Murph	y Jeff Firrelli
Gerard Bond	ur Loui Bondur
Gerard Bond	ur Gerard Hernandez

9.

SELECT CONCAT(m.firstname, ' ', m.lastName) as Manager, CONCAT(e.firstname, ' ', e.lastName)
as Employee

FROM employees e

LEFT OUTER JOIN employees m ON e.reportsTo = m.employeeNumber

ORDER BY m.firstName ASC LIMIT 1;

	Manager	Employee
•	NULL	Diane Murphy

10.

SELECT productName

FROM products P

WHERE productLine = "Classic Cars"

AND substring_index(productName," ",1) BETWEEN 1960 AND 1969;

	productName
•	1962 Lancia A Delta 16V
	1968 Ford Mustang
	1969 Corvair Monza
	1968 Dodge Charger
	1969 Ford Falcon
	1969 Dodge Charger
	1965 Aston Martin DB5
	1969 Dodge Super Bee
	1966 Shelby Cobra 427 S/C
	1969 Chevrolet Camaro Z28
	1961 Chevrolet Impala

11.

SELECT MONTH(orderDate) AS Months, YEAR(orderDate) AS Years, COUNT(orderNumber) as Total

FROM orders

GROUP BY Months

ORDER BY Total DESC LIMIT 2;

	Months	Years	Total
١	11	2003	63
	10	2003	31

12.

 ${\tt SELECT\ employees.firstName,\ employees.lastName}$

FROM employees LEFT JOIN customers

ON employees.employeeNumber = customers.salesRepEmployeeNumber

WHERE jobTitle = "Sales Rep"

AND customers.salesRepEmployeeNumber IS NULL;

	firstName	lastName
١	Tom	King
	Yoshimi	Kato

13.

SELECT customers.customerName

FROM customers LEFT JOIN orders ON customers.customerNumber = orders.customerNumber

WHERE country = "Switzerland"

AND orders.customerNumber IS NULL;

	customerName	
Þ	BG&E Collectables	
	Precious Collectables	

14.

SELECT customerName, SUM(quantityOrdered) as Total

FROM customers C, orders O, orderdetails OD

WHERE (C.customerNumber = O.customerNumber AND O.orderNumber = OD.orderNumber)

GROUP BY customerName

HAVING (Total < 500);

	customerName	Total
•	Atelier graphique	270
	Cambridge Collectables Co.	357
	Clover Collections, Co.	490
	Auto-Moto Classics Inc.	287
	Boards & Toys Co.	102
	CAF Imports	468
	Royale Belge	278
	Bavarian Collectables Imports, Co.	401
	Microscale Inc.	381
	Frau da Collezione	272
	Double Decker Gift Stores, Ltd	357

15.

CREATE TABLE LowCustomers

```
(CustomerNumber int NOT NULL, ContactDate DATE NOT NULL, OrderTotal decimal(9,2) NOT NULL, OrderTotal decimal(9,2) NOT NULL,
```

CONSTRAINT LowCustomer_PK primary key(CustomerNumber));

```
16.
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```
INSERT INTO LowCustomers(CustomerNumber, ContactDate,OrderTotal)
    SELECT c.CustomerNumber, curdate(), SUM(priceEach*quantityOrdered) AS Total
    FROM customers C, orders O, orderdetails OD
    WHERE (C.customerNumber = O.customerNumber AND O.orderNumber = OD.orderNumber)
    GROUP BY customerNumber
    HAVING Total < 50000;

17.

SELECT *
    FROM LowCustomers</pre>
```

ORDER BY orderTotal DESC;

	CustomerNumber	ContactDate	OrderTota
•	447	2020-02-21	49967.78
	189	2020-02-21	49898.27
	344	2020-02-21	46751.14
	211	2020-02-21	45480.79
	475	2020-02-21	43748.72
	487	2020-02-21	42570.37
	347	2020-02-21	41506.19
	173	2020-02-21	32198.69
	415	2020-02-21	31310.09
	489	2020-02-21	29586.15
	456	2020-02-21	29230.43
	381	2020-02-21	29217.18
	473	2020-02-21	25358.32
	103	2020-02-21	22314.36
	198	2020-02-21	21554.26
	219	2020-02-21	7918.60

18.

ALTER TABLE LowCustomers

ADD OrderCount INT NOT NULL;

19.

UPDATE LowCustomers

SET OrderCount = FLOOR(RAND()*(18-0)+0);

20.

SELECT *

FROM LowCustomers

ORDER BY orderCount DESC;

	CustomerNumber	ContactDate	OrderTotal	OrderCount
•	219	2020-02-21	7918.60	17
	415	2020-02-21	31310.09	15
	447	2020-02-21	49967.78	14
	475	2020-02-21	43748.72	14
	103	2020-02-21	22314.36	13
	347	2020-02-21	41506.19	12
	473	2020-02-21	25358.32	10
	198	2020-02-21	21554.26	7
	456	2020-02-21	29230.43	7
	489	2020-02-21	29586.15	7
	173	2020-02-21	32198.69	5
	189	2020-02-21	49898.27	4
	211	2020-02-21	45480.79	4
	381	2020-02-21	29217.18	3
	344	2020-02-21	46751.14	2
	487	2020-02-21		2
	NULL	NULL	NULL	NULL

21.

DROP TABLE LowCustomers;