

 ${\tt SELECT\ productCode,\ productName,\ productVendor,\ quantityInStock,\ productLine\ FROM\ products}$

```
WHERE productLine = 'Vintage Cars' and buyPrice <= 60 and buyPrice >= 50 :
```

	productCo	productName	productVendor	quantityInSto	productLine
Þ	S18_2325	1932 Model A Ford J-Coupe	Autoart Studio Design	9354	Vintage Cars
Г	S18_3320	1917 Maxwell Touring Car	Exoto Designs	7913	Vintage Cars
Г	S18_4522	1904 Buick Runabout	Exoto Designs	8290	Vintage Cars
Г	S24_4258	1936 Chrysler Airflow	Second Gear Diecast	4710	Vintage Cars
	NULL	NULL	NULL	NULL	NULL

```
SELECT productCode, productName, productVendor, buyPrice, MSRP FROM products
WHERE MSRP = (
SELECT MIN(MSRP)
FROM products
)
.
```

	productCo productName		productVendor	buyPrice MSRP	
۰	S24_1937	1939 Chevrolet Deluxe Coupe	Motor City Art Classics	22.57	33.19
	NULL	NULL	NULL	NULL	NULL

PROB 5

```
SELECT productName, (MSRP - buyPrice)
FROM products
WHERE (MSRP - buyPrice) = (
SELECT MAX(MSRP - buyPrice)
FROM products
)
;
productName (MSRP - buyPrice)

1952 Alpine Renault 1300 115.72
```

Prob 6

SELECT country, COUNT(*) FROM customers GROUP BY country

HAVING COUNT(*) >= 6

country	COUNT(*)
France	12
USA	36
Germany	13
Spain	7

Prob 7

SELECT productCode, productName, COUNT(*)"Order Count"
FROM products
WHERE productVendor = 'Welly Diecast Productions'
GROUP BY
productCode,
productName

productCode productName Order Count S12_1666 1958 Setra Bus S12_3148 1969 Corvair Monza S12_3380 1968 Dodge Charger 1969 Dodge Charger S12_4675 S18_1749 1917 Grand Touring Sedan 1936 Harley Davidson El Knucklehead S18_2625 S24_3371 1971 Alpine Renault 1600s S700_3962 The Queen Mary

Prob 8

```
SELECT employeeNumber, concat(firstName,' ', lastName) AS Name FROM employees
WHERE reportsTo = '1088'
or reportsTo = '1056'
;
```

employeeNumber	Name
1088	William Patterson
1102	Gerard Bondur
1143	Anthony Bow
1621	Mami Nishi
1611	Andy Fixter
1612	Peter Marsh
1619	Tom King

SELECT employeeNumber, lastName, firstName FROM employees WHERE reportsTo is null

;

employeeNumber	lastName	firstName
1002	Murphy	Diane
NULL	NULL	NULL

Prob 10

SELECT productName FROM products WHERE productLine = 'Motorcycles' and productName LIKE '%199%'

;

productName			
1996 Moto Guzzi 1100i			
1997 BMW R 1100 S			
1997 BMW F650 ST			

Prob 11

Prob 12

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	
•	Tom	King	
	Yoshimi	Kato	

SELECT customers.customerName

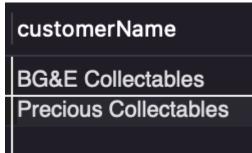
FROM customers

LEFT JOIN orders ON customers.customerNumber = orders.customerNumber

WHERE country = 'Switzerland'

AND orders.orderNumber is null

,



Prob 14

SELECT customers.customerName, SUM(orderdetails.quantityOrdered) FROM customers

INNER JOIN orders ON customers.customerNumber = orders.customerNumber INNER JOIN orderdetails ON orders.orderNumber = orderdetails.orderNumber GROUP BY customers.customerName

HAVING SUM(orderdetails.quantityOrdered) > 1700

;

customerName	SUM(orderdetails.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

CREATE TABLE TopCustomers(
CustomerNumber int NOT NULL,
ContactDate date NOT NULL,
OrderCount int NOT NULL,
OrderTotal decimal(9,2) NOT NULL,
CONSTRAINT TopCustomer_PK PRIMARY KEY (CustomerNumber)
);

Prob 16

INSERT INTO TopCustomers (CustomerNumber, ContactDate, OrderCount, OrderTotal) SELECT customers.customerNumber, CURDATE(),

SUM(orderdetails.quantityOrdered),SUM(orderdetails.priceEach * orderdetails.quantityOrdered) AS total

FROM customers

INNER JOIN orders ON customers.customerNumber = orders.customerNumber

INNER JOIN orderdetails ON orders.orderNumber = orderdetails.orderNumber

GROUP BY customers.customerNumber

HAVING total > 150000

;

Prob 17

SELECT*

FROM TopCustomers

ORDER BY OrderTotal DESC;

	CustomerNumb	ContactDate	OrderCount	OrderTotal
•	141	2022-10-09	9327	820689.54
	124	2022-10-09	6366	591827.34
	114	2022-10-09	1926	180585.07
	151	2022-10-09	1775	177913.95
	119	2022-10-09	1832	158573.12
	148	2022-10-09	1524	156251.03
	323	2022-10-09	1691	154622.08
	NULL	NULL	NULL	NULL

ALTER TABLE TopCustomers

ADD CreditRating int;

Prob 19

UPDATE TopCustomers

SET CreditRating = FLOOR(RAND()*(9-0)+0)

WHERE CreditRating is null;

Prob 20

SELECT *

FROM TopCustomers

ORDER BY CreditRating DESC;

	CustomerNumb	ContactDate	OrderCount	OrderTotal	CreditRating
•	148	2022-10-09	1524	156251.03	8
	141	2022-10-09	9327	820689.54	7
	151	2022-10-09	1775	177913.95	7
	323	2022-10-09	1691	154622.08	5
	119	2022-10-09	1832	158573.12	4
	124	2022-10-09	6366	591827.34	4
	114	2022-10-09	1926	180585.07	0
	NULL	NULL	NULL	NULL	NULL

Prob 21

DROP TABLE TopCustomers;