

QUESTIONS AND ANSWER SCREENSHOTS

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Team 5

QUESTION -1 : Create query to use the ORDER BY clause to sort the customers by their last names in ascending order.

```
mysql> select * from customers order by customerName;
```

customerNumber	customerName	city	contactLastName	contactFirstName	phone	addressLine1
addressLine2		state	postalCode	country	salesRepEmployeeNumber	creditLimit
242	Alpha Cognac	Toulouse	Roulet	Annette	61.77.6555	1 rue Alsace-Lorraine
NULL		NULL	31000	France		1370 61100.00
168	American Souvenirs Inc	New Haven	Franco	Keith	2035557845	149 Spinnaker Dr.
Suite 101		CT	97823	USA		1286 0.00
249	Amica Models & Co.	Torino	Accorti	Paolo	011-4988555	Via Monte Bianco 34
NULL		NULL	10100	Italy		1401 113000.00
237	ANG Resellers	Madrid	Camino	Alejandra	(91) 745 6555	Gran Via, 1
NULL		NULL	28001	Spain		NULL 0.00
276	Anna's Decorations, Ltd	North Sydney	O'Hara	Anna	02 9936 8555	201 Miller Street
Level 15		NSW	2060	Australia		1611 107800.00
465	Anton Designs, Ltd.	Madrid	Anton	Carmen	+34 913 728555	c/ Gobelás, 19-1 Urb. La Flori
NULL		NULL	28023	Spain		NULL
0.00						
206	Asian Shopping Network, Co	Singapore	Walker	Brydey	+612 9411 1555	Suntec Tower Three
8 Temasek		NULL	038988	Singapore		NULL 0.00
348	Asian Treasures, Inc.	Cork	McKenna	Patricia	2967 555	8 Johnstown Road
NULL		Co. Cork	NULL	Ireland		NULL 0.00
103	Atelier graphique	Nantes	Schmitt	Carine	40.32.2555	54, rue Royale
NULL		NULL	44000	France		1370 21000.00
471	Australian Collectables, Ltd	Glen Waverly	Clenahan	Sean	61-9-3844-6555	7 Allen Street
NULL		Victoria	3150	Australia		1611 60300.00
114	Australian Collectors, Co.	Melbourne	Ferguson	Peter	03 9520 4555	636 St Kilda Road
Level 3		Victoria	3004	Australia		1611 117300.00
333	Australian Gift Network, Co	South Brisbane	Calaghan	Ben	61-7-3844-6555	31 Duncan St. West End
NULL		Queensland	4101	Australia		1611 51600.00
256	Auto Associés & Cie.	Versailles	Tonini	Daniel	30.59.8555	67, avenue de l'Europe
NULL		NULL	78000	France		1370 77900.00
406	Auto Canal+ Petit	Paris	Perrier	Dominique	(1) 47.55.6555	25, rue Lauriston
NULL		NULL	75016	France		1337 95000.00

QUESTION-2: Create query to use the ORDER BY clause sorts the result set by the last name in descending order first and then sorts the sorted result set by the first name in ascending order to make the final result set.

```
mysql> SELECT *
-> FROM customers
-> ORDER BY contactLastName DESC, contactFirstName ASC;
```

customerNumber	customerName	city	contactLastName	contactFirstName	phone	addressLine1
addressLine2		state	postalCode	country	salesRepEmployeeNumber	creditLimit
363	Online Diecast Creations Co.	Nashua	Young	Dorothy	6035558647	2304 Long Airport Avenue
NULL		NH	62005	USA		1216 114200.00
151	Muscle Machine Inc	NYC	Young	Jeff	2125557413	4092 Furth Circle
Suite 400		NY	10022	USA		1286 138500.00
285	Toys4GrownUps.com	Pasadena	Young	Julie	6265557265	78934 Hillside Dr.
NULL		CA	90003	USA		1166 90700.00
219	Boards & Toys Co.	Glendale	Young	Mary	3105552373	4097 Douglas Av.
NULL		CA	92561	USA		1166 11000.00
362	Gifts4AllAges.com	Boston	Yoshido	Juri	6175559555	8616 Spinnaker Dr.
NULL		MA	51003	USA		1216 41900.00
206	Asian Shopping Network, Co	Singapore	Walker	Brydey	+612 9411 1555	Suntec Tower Three
8 Temasek		NULL	038988	Singapore		NULL 0.00
166	Handji Gifts& Co	Singapore	Victorino	Wendy	+65 224 1555	106 Linden Road Sandown
2nd Floor		Singapore	069045	Singapore		1612 97900.00
376	Precious Collectables	Bern	Urs	Braun	0452-076555	Hauptstr. 29
NULL		NULL	3012	Switzerland		1702 0.00

QUESTION-3 : Create query to select unique last names by adding the DISTINCT clause

```
mysql> select DISTINCT contactL
```

contactLastName
Schmitt
King
Ferguson
Labrune
Bergulfsen
Nelson
Piestrzeniewicz
Keitel
Murphy
Lee
Freyre
Berglund
Petersen
Saveley
Natividad
Young
Leong
Hashimoto
Victorino
Oeztan
Franco
de Castro
Rancé
Bertrand
Tseng
Kentary
Frick
Karttunen
Ashworth
Cassidy
Taylor

```
108 rows in set (0.00 sec)
```

QUESTION-4: Create query to find customers the customers who locate in California, USA, and have a credit limit greater than 100K.

```
mysql> SELECT customerName, city, creditLimit
-> FROM customers
-> WHERE country = 'USA' AND state = 'CA' AND creditLimit > 100000.00;
```

customerName	city	creditLimit
Mini Gifts Distributors Ltd.	San Rafael	210500.00
Collectable Mini Designs Co.	San Diego	105000.00
Corporate Gift Ideas Co.	San Francisco	105000.00

3 rows in set (0.00 sec)

QUESTION-5: Create query to find the products whose buy prices are not between \$20 and \$100

```
mysql> select * from products where buyPrice not between 20 and 100;
```

productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	MSRP
S10_4962	1962 LanciaA Delta 16V	Classic Cars	1:10	Second Gear Diecast	Features include: Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis.	6791	103.42	147.74
S18_2238	1998 Chrysler Plymouth Prowler	Classic Cars	1:18	Gearbox Collectibles	Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed c	4724	15.91	35.3
S24_2840	1958 Chevy Corvette Limited Edition	Classic Cars	1:24	Carousel DieCast Le	Chevy Corvette Limited Edition are particularly delicate due to their precise scale and require special	2542	15.91	35.3
S24_2972	1982 Lamborghini Diablo	Classic Cars	1:24	Second Gear Diecast	rs, superb detail and craftsmanship, working steering system, opening forward compartment, opening rear	7723	16.24	37.7

3 rows in set (0.00 sec)

QUESTION-6: Create a table stats to store the no of products,no of customers and no of orders

```
mysql> INSERT INTO stats (no_of_products, no_of_customers, no_of_orders)
-> SELECT
-> (SELECT COUNT(*) FROM products),
-> (SELECT COUNT(*) FROM customers),
-> (SELECT COUNT(*) FROM orders);
Query OK, 1 row affected (0.02 sec)
Records: 1 Duplicates: 0 Warnings: 0
```

```
mysql> select * from stats;
```

no_of_products	no_of_customers	no_of_orders
110	122	326

1 row in set (0.00 sec)

QUESTION-7: Create query to update both last name and email columns of employee number 1056 to lastname=Hill, [email=mary.hill@classicmodelcars.com](mailto:mary.hill@classicmodelcars.com)

```
mysql> update employees set lastname="Hill", email="mary.hill@classicmodelcars.com" where employeeNumber = 1056;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from employees where employeeNumber = 1056;
+-----+-----+-----+-----+-----+-----+-----+-----+
| employeeNumber | lastName | firstName | extension | email | officeCode | reportsTo | jobTitle |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1056 | Hill | Mary | x4611 | mary.hill@classicmodelcars.com | 1 | 1002 | VP Sales |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

QUESTION-8: Create query to return order number, order status, and total sales from the orders and orderdetails tables using the INNER JOIN clause with the GROUP BY clause

```
mysql> select orders.orderNumber, orders.status, sum(orderdetails.priceEach*orderdetails.quantityOrdered) from orders inner join orderdetails on orderdetails.orderNumber = orders.orderNumber group by orderdetails.orderNumber;
```

orderNumber	status	sum(orderdetails.priceEach*orderdetails.quantityOrdered)
10100	Shipped	10223.829999999998
10101	Shipped	10549.01
10102	Shipped	5494.78
10103	Shipped	50218.950000000004
10104	Shipped	40206.2
10105	Shipped	53959.21
10106	Shipped	52151.810000000005
10107	Shipped	22292.620000000003
10108	Shipped	51001.219999999994
10109	Shipped	25833.14
10110	Shipped	48425.69
10111	Shipped	16537.850000000002
10112	Shipped	7674.940000000005
10113	Shipped	11044.300000000001
10114	Shipped	33383.140000000001
10115	Shipped	21665.980000000003
10116	Shipped	1627.56
10117	Shipped	44380.15
10118	Shipped	3101.4
10119	Shipped	35826.33
10120	Shipped	45864.03
10121	Shipped	16700.47
10122	Shipped	50824.659999999996
10123	Shipped	14571.44
10124	Shipped	32641.980000000003
10125	Shipped	7565.08
10126	Shipped	57131.92

326 rows in set (0.03 sec)

QUESTION-9: Create query to find the customer details who had made a payment above 50,000 and the employee responsible for making the payment.

85 rows in set (0.00 sec)

```
mysql> SELECT *, employees.firstName
-> FROM customers
-> INNER JOIN employees ON customers.salesRepEmployeeNumber = employees.employeeNumber
-> WHERE customers.creditLimit > 50000;
```

customerNumber	customerName	city	state	contactLastName	contactFirstName	phone	addressLine1	salesRepEmployeeNumber	creditLimit	employeeNumber
124	Mini Gifts Distributors Ltd.	San Rafael	CA	Nelson	Susan	4155551450	5677 Strong St.	1165	210500.00	116
129	Mini Wheels Co.	San Francisco	CA	Murphy	Julie	6505555787	5557 North Pendale Street	1165	64600.00	116
161	Technics Stores Inc.	Burlingame	CA	Hashimoto	Juri	6505556809	9408 Furth Circle	1165	84600.00	116
321	Corporate Gift Ideas Co.	San Francisco	CA	Brown	Julie	6505551386	7734 Strong St.	1165	105000.00	116

QUESTION-10: Create query to find the customers who have done a payment on '2004-09-19'.

```
mysql> select customers.customerName, payments.checknumber from customers inner join payments on payments.customerNumber = customers.customerNumber where paymentDate = "2004-09-19";
```

customerName	checknumber
Herkku Gifts	ED743615
Amica Models & Co.	IJ399820

2 rows in set (0.02 sec)

QUESTION-11: The customer_list view provides a list of customers, with firstname and lastname concatenated together and address information combined into a single view.

```
mysql> create view customer_list AS select CONCAT(c.contactFirstName,c.contactLastName) as customerFullName,
-> CONCAT(c.addressLine1,',',c.addressLine2,',',c.city,',',c.state,',',c.postalCode,',',c.country) as address
-> from customers c;
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> select * from customer_list;
```

customerFullName	address
Carine Schmitt	NULL
JeanKing	NULL
PeterFerguson	636 St Kilda Road,Level 3,Melbourne,Victoria,3004,Australia
Janine Labrune	NULL
Jonas Bergulfsen	NULL
SusanNelson	NULL
Zbyszek Piestrzeniewicz	NULL
RolandKeitel	NULL
JulieMurphy	NULL
KwaiLee	NULL
Diego Freyre	NULL
Christina Berglund	NULL
Jytte Petersen	NULL
Mary Saveley	NULL
EricNatividad	NULL
JeffYoung	4092 Furth Circle,Suite 400,NYC,NY,10022,USA
KelvinLeong	NULL
JuriHashimoto	NULL
WendyVictorino	NULL
VeyselOeztan	NULL
KeithFranco	149 Spinnaker Dr.,Suite 101,New Haven,CT,97823,USA
Isabel de Castro	NULL
Martine Rancé	NULL
MarieBertrand	NULL
JerryTseng	NULL

QUESTION-12: The customer who had made the max payment in a particular month

```
mysql> delimiter //
mysql> create procedure maxCustomers()
-> BEGIN
-> select payments.customerNumber, customers.customerName, payments.amount, month(payments.paymentDate)
-> inner join customers on payments.customerNumber = customers.customerNumber
-> where payments.amount in (select max(payments.amount) from payments)
-> group by (SELECT EXTRACT(MONTH FROM payments.paymentDate))) order by month(payments.paymentDate)
-> end //
Query OK, 0 rows affected (0.01 sec)

mysql> call maxCustomers();
-> //
```

customerNumber	customerName	amount	month(payments.paymentDate)
141	Euro+ Shopping Channel	59830.55	1
145	Danish Wholesale Imports	53959.21	2
141	Euro+ Shopping Channel	120166.58	3
124	Mini Gifts Distributors Ltd.	83598.04	4
323	Down Under Souvenirs, Inc	75020.13	5
450	The Sharp Gifts Warehouse	59551.38	6
386	L'ordine Souvenirs	51619.02	7
124	Mini Gifts Distributors Ltd.	111654.40	8
157	Diecast Classics Inc.	63357.13	9
256	Auto Associés & Cie.	53116.99	10
321	Corporate Gift Ideas Co.	85559.12	11
141	Euro+ Shopping Channel	116208.40	12

```
12 rows in set (0.00 sec)
```

QUESTION-13: The customers who have made payments today

```
mysql> create procedure todaysSales()
-> begin
-> select customers.customerName, payments.customerNumber, payments.paymentDate from customers
-> inner join payments on customers.customerNumber = payments.customerNumber
-> where paymentDate = date(now());
-> end //
Query OK, 0 rows affected (0.01 sec)

mysql> delimiter ;
mysql> insert into payments(customerNumber,checkNumber,paymentDate,amount) values (201,'HQ433236','2024-04-30','67002.78');
Query OK, 1 row affected (0.01 sec)

mysql> call todaysSales();
```

customerName	customerNumber	paymentDate
UK Collectables, Ltd.	201	2024-04-30

```
1 row in set (0.00 sec)
```

QUESTION-14: The payment_date trigger sets the paymentDate column of the payment table to the current date as rows are inserted.

```
mysql> delimiter ;
mysql> CREATE TRIGGER payments_date_trigger
-> BEFORE INSERT ON payments
-> FOR EACH ROW
-> SET NEW.paymentDate = CURRENT_DATE();
Query OK, 0 rows affected (0.03 sec)

mysql> insert into payments (customerNumber,checkNumber,paymentDate,amount)values(497,'MN897654','2005-03-12',87654.98);
Query OK, 1 row affected (0.03 sec)
```

QUESTION-15: The delete_order Trigger create a table deleteorderlog if not exists and inserts the orderNumber and current date to deleteorderlog table while deleting a row from orders table

4 • `select * from deleteorderlog;`

Result Grid		
Filter Rows:		
id	orderNumber	delete_date
1	10100	2024-04-30 18:57:02

```
mysql> DELIMITER //
mysql> CREATE TRIGGER delete_order_trigger
-> BEFORE DELETE ON orders
-> FOR EACH ROW
-> BEGIN
->     INSERT INTO deleteorderlog (orderNumber, delete_date)
->     VALUES (OLD.orderNumber, NOW());
-> end //
Query OK, 0 rows affected (0.03 sec)

mysql> delete from orders where ordernumber = 10100;
-> //
Query OK, 1 row affected (0.03 sec)
```