Assignment 1

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PRN No-

Subject-DBMS

41. Display the fullname of the customers by concatenating firstname and lastname and give a column alias.

40. Find the lowest buyprice for each productline from the products table and display only those productlines whose lowest buyprice is less than 21.

39. Find the lowest buyprice from the products table

```
mysql> select min(buyprice) from products;

+------+

| min(buyprice) |

+------+

| 15.91 |

+------+

1 row in set (0.00 sec)
```

38. Find the maximum payment for each customer form the payments table

```
mysql> select customernumber, max(amount) from payments group by customernum
ber;
  customernumber | max(amount)
             103
                       14571.44
             112
                       33347.88
                       82261.22
             114
             119
                       49523.67
             121
                       50218.95
                      111654.40
             124
             128
                       33820.62
             129
                       26248.78
                       50025.35
             131
                      120166.58
             141
             144
                       36005.71
             145
                       53959.21
             146
                       49614.72
                      105743.00
             148
             151
                       58841.35
             157
                       63357.13
                       50743.65
             161
             166
                       44160.92
             167
                       85024.46
             171
                       42783.81
                       51209.58
             172
                       20355.24
             173
                       42044.77
             175
                       47177.59
             177
                       44400.50
             181
             186
                       37602.48
             187
                       52825.29
             189
                       32538.74
```

37. Find the maximum amount from the payments table in the year 2004

36. Find the maximum amount from the payments table

```
mysql> select max(amount) from payments;
+-----+
| max(amount) |
+-----+
| 120166.58 |
+-----+
1 row in set (0.00 sec)
```

35. Find the totalprice for each order number and display those orders having total greater than 60000

```
mysql> select ordernumber, sum(priceeach*quantityordered) as totalprice from orderdetails group by ordernumber having totalprice>60000;
+-----+
| ordernumber | totalprice |
+-----+
| 10165 | 67392.85 |
| 10287 | 61402.00 |
| 10310 | 61234.67 |
+------+
3 rows in set (0.00 sec)
```

34. Display the totalprice for the order number 10110

```
mysql> select ordernumber,sum(quantityordered) from orderdetails where order
number=10110;
+------+
| ordernumber | sum(quantityordered) |
+-----+
| 10110 | 570 |
+-----+
1 row in set (0.00 sec)
```

33. Display the total number of items of the order details table

```
mysql> select sum(quantityordered) as totalitems from orderdetails;
+-----+
| totalitems |
+-----+
| 105516 |
+-----+
1 row in set (0.00 sec)
```

32. Find the average of buyprice in each productline and display only those productlines having average buyprice greater than 50

31. Display the average of distinct buy price of products from the products table

30. Display the average buy price of the productline "Classic Cars" from the products table

```
mysql> select productline,avg(buyprice) from products group by productline h
aving productline='classic cars';
+-----+
| productline | avg(buyprice) |
+-----+
| Classic Cars | 64.446316 |
+------+
1 row in set (0.01 sec)
mysql>
```

29. Display the average buy price of all products from the products

```
mysql> select productline,avg(buyprice) from products group by productline;
 productline
                   avg(buyprice)
 Classic Cars
                         64.446316
 Motorcycles
                         50.685385
 Planes
                         49.629167
 Ships
                         47.007778
                         43.923333
 Trains
                         56.329091
 Trucks and Buses
                         46.066250
 Vintage Cars
 rows in set (0.00 sec)
```

22. Display employees whose first names start with the letter T, end with the letter m, and contain any single character between

19. Display the employees whose last names end with the string 'son'

20. Display employees whos e last names start with the letter a

```
mysql> select lastname from employees where lastname like 'a%';
Empty set (0.00 sec)
mysql> select lastname from employees;
lastname
Murphy
Patterson
Firrelli
Patterson
 Bondur
 Bow
 Jennings
Thompson
Firrelli
Patterson
 Tseng
Vanauf
 Bondur
 Hernandez
 Castillo
Bott
 Jones
 Fixter
 Marsh
 King
 Nishi
 Kato
 Gerard
23 rows in set (0.00 sec)
```

18. Display the distinct lastname from the employees table

```
mysql> select distinct lastname from employees;
  lastname
 Murphy
  Patterson
  Firrelli
  Bondur
  Bow
 Jennings
 Thompson
 Tseng
  Vanauf
 Hernandez
 Castillo
 Bott
  Jones
  Fixter
  Marsh
  King
  Nishi
  Kato
  Gerard
19 rows in set (0.00 sec)
```

2. Display all the details of the Employees table

17. Display offices not located in USA and France from offices table

15. Display the lastname, firstname and officecode from the employees table whose officecode is from 1 to 3

```
mysql> select lastname,firstname,officecode from employees where officecode<=3;
 lastname
            | firstname | officecode
 Murphy
              Diane
                          1
                          1
 Patterson
            Т
              Mary
                          1
 Firrelli
              Jeff
                          1
              Anthony
                          1
 Jennings
              Leslie
                          1
 Thompson
              Leslie
              Julie
                          2
 Firrelli
                          2
 Patterson
              Steve
              Foon Yue
                          3
 Tseng
 Vanauf
                          3
              George
10 rows in set (0.00 sec)
```

14. Display the details of all customers located in USA or France and have a credit limit greater than 100k

```
mysql> select customername,country,creditlimit from customers where country in('usa','france') and creditlimit>=100000;
                                                      | country | creditlimit |
  customername
  La Rochelle Gifts
Mini Gifts Distributors Ltd.
Land of Toys Inc.
Saveley & Henriot, Co.
Muscle Machine Inc
Diecast Classics Inc.
Collectable Mini Designs Co.
Marta's Replicas Co.
Mini Classics
                                                                             210500.00
114900.00
                                                       USA
                                                       France
USA
                                                                             123900.00
138500.00
                                                                             100600.00
105000.00
123700.00
                                                       USA
USA
  Mini Classics
Corporate Gift Ideas Co.
                                                        USA
                                                                             102700.00
105000.00
   Online Diecast Creations Co.
                                                       USA
                                                                             114200.00
     rows in set (0.00 sec)
```

13. Display the lastname, firstname, jobtitle, officecode from the employees table who works as Sales Rep or whose officecode is 1 in the sorted order of officecode and jobtitle

11. Display the lastname, firstname, jobtitle, officecode from the employees table who works as Sales Rep and whose officecode is 1

10. Display the lastname, firstname and jobtitle from the employees table who works as Sales Rep

```
mysql> select lastname,firstname,jobtitle from employees where jobtitle= 'sales rep';
 lastname
              firstname |
                           jobtitle
              Leslie
 Jennings
                           Sales Rep
              Leslie
 Thompson
                           Sales Rep
 Firrelli
              Julie
                           Sales Rep
 Patterson
              Steve
                           Sales Rep
              Foon Yue
                           Sales Rep
 Tseng
 Vanauf
              George
                           Sales Rep
 Bondur
                           Sales Rep
              Loui
 Hernandez
              Gerard
                           Sales Rep
 Castillo
              Pamela
                           Sales Rep
                           Sales Rep
 Bott
              Larry
 Jones
              Barry
                           Sales Rep
                           Sales Rep
 Fixter
              Andv
                           Sales Rep
 Marsh
              Peter
                           Sales Rep
 King
              Tom
 Nishi
              Mami
                           Sales Rep
                           Sales Rep
 Kato
              Yoshimi
              Martin
                           Sales Rep
 Gerard
17 rows in set (0.00 sec)
```

8. Display the structure of the Orderdetails table

ysql> desc orderde	tails;	.		.	·
Field	Туре	Null	Key	Default	Extra
orderNumber productCode quantityOrdered priceEach orderLineNumber	int decimal(10,2)	NO NO NO NO NO	PRI PRI	NULL NULL NULL NULL NULL	
++ 5 rows in set (0.00	 sec)	+	t	 	++

6. Display the lastname, firstname from the customers table sorted in the reverse alphabetical order of lastname

```
mysql> select contactlastname,contactfirstname from customers order by contactlastname desc,contactfirstname;
  contactlastname | contactfirstname
                       Dorothy
Jeff
Julie
  Young
  Young
Young
                       Mary
Juri
Brydey
  Young
Yoshido
  Walker
  Victorino
                       Wendy
                       Braun
  Urs
  Tseng
Tonini
                       Jerry
Daniel
                       Steve
Valarie
  Thompson
  Thompson
  .
Taylor
                        Leslie
```

mysql> select	contactlastname,co
<u>+</u>	ṭ
contactlastn	ame contactfirst
	-
Young	Jeff
Young	Julie
Young	Mary
Young	Dorothy
Yoshido	Juri
Walker	Brydey
Victorino	Wendy
Urs	Braun
Tseng	Jerry
I Tonini	Daniel

4. Display the structure of the Customers table

mysql> desc customers;		+	+		+ -
Field	Type	Null	Key	Default	Extra
customerNumber customerName contactLastName phone addressLine1 addressLine2 city state postalCode country salesRepEmployeeNumber creditLimit	int varchar(50) int decimal(10,2)	NO NO NO NO NO YES YES YES NO YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL	
13 rows in set (0.00 sec)		+	-		
mysql>					

12. Display the name, country and state of the customers who live in CA, USA and have a credit limit greater than 100k

9. Display the ordernumber and total price of the products from the orderdetails table sorted in the ascending order of totalprice

mysql> select ordernumber,sum(priceeach*quantityordered) as totalprice from orderdetails group by ordernumber order by totalprice asc; ordernumber | totalprice 10408 615.45 10144 1128.20 10158 1491.38 1627.56 10116 1676.14 10345 1679.92 10242 1834.56 10364 10286 1960.80 10409 2326.18 10317 2434.25 10277 2611.84 2880.00 10132 10118 3101.40 3452.75 10376 10303 3474.66 3516.04 10387 10189 3879.96 10294 4424.40 10154 4465.85 4466.71 10385 10156 4599.52 4632.31 10255 10256 4710.73

1. Display the structure of employee table

```
mysql> select lastname, firstname, jobtitle from employees;
                         jobtitle
  lastname
             firstname
              Diane
  Murphy
                          President
  Patterson
              Marv
                          VP Sales
  Firrelli
              Jeff
                          VP Marketing
  Patterson
             William
                          Sales Manager (APAC)
  Bondur
              Gerard
                          Sale Manager (EMEA)
  Bow
              Anthony
                          Sales Manager (NA)
  Jennings
             Leslie
                          Sales Rep
 Thompson
            Leslie
                          Sales Rep
  Firrelli
              Julie
                          Sales Rep
  Patterson |
             Steve
                          Sales Rep
             Foon Yue
  Tseng
                         Sales Rep
  Vanauf
                          Sales Rep
              George
  Bondur
             Loui
                          Sales Rep
  Hernandez | Gerard
                          Sales Rep
 Castillo
             Pamela
                          Sales Rep
  Bott
              Larry
                          Sales Rep
  Jones
              Barry
                          Sales Rep
  Fixter
                          Sales Rep
              Andv
  Marsh
              Peter
                          Sales Rep
  King
              Tom
                          Sales Rep
  Nishi
              Mami
                          Sales Rep
              Yoshimi
                          Sales Rep
  Kato
  Gerard
              Martin
                          Sales Rep
23 rows in set (0.00 sec)
mysql>
```

5. Display the lastname, firstname from the customers table sorted in the alphabetical order of lastname

mysql> select conta	actlastname,contactfirstname from customers order by contactlastname
contactlastname	contactfirstname
Accorti	
Altagar,G M	Raanan
Andersen	Mel
Anton	Carmen
Ashworth	Rachel
Barajas	Miguel
Benitez	Violeta
Bennett	Helen
Berglund	Christina
Bergulfsen	Jonas
Bertrand	Marie
Brown	Julie
Brown	Ann
Brown	William
Calaghan	Ben
Camino	Alejandra
Cartrain	Pascale
Cassidy	Dean
Cervantes	Francisca
Chandler	Brian