

James Gallmeister
Database and Information Systems
Project 1 Answers

1. select * from offices;

```
mysql> select * from offices;
```

	officeCode	city	phone	addressLine1	addressLine2	state	country	postalCode	territory
1		San Francisco	+1 650 219 4782	100 Market Street	Suite 300	CA	USA	94080	NA
2		Boston	+1 215 837 0825	1550 Court Place	Suite 102	MA	USA	02107	NA
3		NYC	+1 212 555 3000	523 East 53rd Street	apt. 5A	NY	USA	10022	NA
4		Paris	+33 14 723 4404	43 Rue Jouffroy D'abbans	NULL	NULL	France	75017	EMEA
5		Tokyo	+81 33 224 5000	4-1 Kioicho	NULL	NULL	Chiyoda-Ku	102-8578	Japan
6		Sydney	+61 2 9264 2451	5-11 Wentworth Avenue	Floor #2	NULL	Australia	NSW 2010	APAC
7		London	+44 20 7877 2041	25 Old Broad Street	Level 7	NULL	UK	EC2N 1HN	EMEA

7 rows in set (0.00 sec)

2. select employeeenumber, lastname, firstname, extension from employees e, offices o where o.officecode = e.officecode and o.city = 'Paris';

```
mysql> select employeeenumber, lastname, firstname, extension
```

	employeeenumber	lastname	firstname	extension
	1102	Bondur	Gerard	x5408
	1337	Bondur	Loui	x6493
	1370	Hernandez	Gerard	x2028
	1401	Castillo	Pamela	x2759
	1702	Gerard	Martin	x2312

5 rows in set (0.00 sec)

3. select productcode, productname, productvendor, buyprice, msrp from products where productline = 'Classic Cars' and quantityinstock between 5000 and 7000;

```
mysql> select productcode, productname, productvendor, buyprice, msrp from products where productline = 'Clas
```

	productcode	productname	productvendor	buyprice	msrp
	S10_4962	1962 LanciaA Delta 16V	Second Gear Diecast	103.42	147.74
	S12_3148	1969 Corvair Monza	Welly Diecast Productions	89.14	151.08
	S12_3990	1970 Plymouth Hemi Cuda	Studio M Art Models	31.92	79.80
	S18_4027	1970 Triumph Spitfire	Min Lin Diecast	91.92	143.62
	S24_3856	1956 Porsche 356A Coupe	Classic Metal Creations	98.30	140.43
	S24_4048	1992 Porsche Cayenne Turbo Silver	Exoto Designs	69.78	118.28
	S700_2824	1982 Camaro Z28	Carousel DieCast Legends	46.53	101.15

7 rows in set (0.00 sec)

4. select productcode, productname, productvendor, buyprice, msrp from products having min(msrp);

```
mysql> select productcode, productname, productvendor, buyprice, msrp from products having min(msrp);
```

	productcode	productname	productvendor	buyprice	msrp
	S10_1678	1969 Harley Davidson Ultimate Chopper	Min Lin Diecast	48.81	95.70

1 row in set (0.00 sec)

5. select productname, max(msrp-buyprice) as profit from products;

```
mysql> select productname, max(msrp-buyprice) as profit from products;
```

	productname	profit
	1969 Harley Davidson Ultimate Chopper	115.72

1 row in set (0.00 sec)

- select country, count(country) as customercount from customers group by country having customercount >= 5 order by customercount desc;

```
mysql> select country, count(country)
```

country	customercount
USA	36
Germany	13
France	12
Spain	7
Australia	5
UK	5

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

- select o.productcode, productname, sum(quantityordered) total from products p, orderdetails o where o.productcode = p.productcode group by productcode order by total desc limit 1;

```
mysql> select o.productcode, productname, sum(quantityordered)
```

productcode	productname	total
S18_3232	1992 Ferrari 360 Spider red	1808

```
1 row in set (0.04 sec)
```

- select employeeenumber, concat(firstname, ' ', lastname) from employees where reportsto in (select employeeenumber from employees where firstname = 'Anthony' and lastname = 'Bow');

```
mysql> select employeeenumber, concat(firstname, ' ', lastname)
```

employeeenumber	concat(firstname, ' ', lastname)
1165	Leslie Jennings
1166	Leslie Thompson
1188	Julie Firrelli
1216	Steve Patterson
1286	Foon Yue Tseng
1323	George Vanauf

```
6 rows in set (0.01 sec)
```

- select employeeenumber, lastname, firstname from employees where reportsto is NULL;

```
mysql> select employeeenumber, lastname, first
```

employeeenumber	lastname	firstname
1002	Murphy	Diane

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

10. select productname from products where productline = 'Classic Cars' and productname like '195%';

```
[mysql> select productname from products where
+-----+
| productname |
+-----+
| 1952 Alpine Renault 1300 |
| 1957 Corvette Convertible |
| 1957 Ford Thunderbird |
| 1958 Chevy Corvette Limited Edition |
| 1952 Citroen-15CV |
| 1956 Porsche 356A Coupe |
+-----+
6 rows in set (0.00 sec)
```

11. select monthname(orderdate) as mth,
sum(distinct(ordernumber)) as totals from orders where
year(orderdate) = 2003 group by mth order by totals desc
limit 1;

```
[mysql> select monthname(orderdate)
+-----+-----+
| mth | totalorders |
+-----+-----+
| November | 305505 |
+-----+-----+
1 row in set (0.01 sec)
```

12. Select firstname, lastname from employees e left join
customers c on e.employeenumber = c.salesrepemployeenumber
where jobtitle = 'Sales Rep' and c.salesrepemployeenumber
is NULL;

```
mysql> select firstname, lastn
+-----+-----+
| firstname | lastname |
+-----+-----+
| Tom | King |
| Yoshimi | Kato |
+-----+-----+
2 rows in set (0.00 sec)
```

13. Select customername from customers c left join orders o on
c.customernumber = o.customernumber where country = 'Spain'
and o.customernumber is NULL;

```
mysql> select customername from cu:
+-----+
| customername |
+-----+
| ANG Resellers |
| Anton Designs, Ltd. |
+-----+
2 rows in set (0.00 sec)
```

14. Select customername, sum(quantityordered) as tot from
customers c, orderdetails od, orders o where
c.customernumber = o.customnumber and o.ordernumber =
od.ordernumber group by customername having tot > 2000;

```
mysql> select customername, sum(quantityorde
+-----+-----+
| customername | tot |
+-----+-----+
| Mini Gifts Distributors Ltd. | 6366 |
| Euro+ Shopping Channel | 9327 |
+-----+-----+
2 rows in set (0.01 sec)
```

15. create table TopCustomers(customernumber int not null, contactdate date not null, ordertotal decimal(9,2) not null, constraint TopCustomer_PK primary key(customernumber));

16. insert into topcustomers(customernumber, contactdate, ordertotal) select c.customers, curdate(), sum(priceeach*quantityordered) as tot from customers c, orders o, orderdetails od where c.customernumber = o.customernumber and o.ordernumber = od.ordernumber group by c.customernumber having tot > 150000;

17. select * from topcustomers order by ordertotal desc;

```
mysql> select * from topcustomers order by orderto
+-----+-----+-----+
| customernumber | contactdate | ordertotal |
+-----+-----+-----+
| 141 | 2018-10-26 | 820689.54 |
| 124 | 2018-10-26 | 591827.34 |
| 114 | 2018-10-26 | 180585.07 |
| 151 | 2018-10-26 | 177913.95 |
| 119 | 2018-10-26 | 158573.12 |
| 148 | 2018-10-26 | 156251.03 |
| 323 | 2018-10-26 | 154622.08 |
+-----+-----+-----+
7 rows in set (0.00 sec)
```

18. alter table topcustomers add column ordercount int;

19. update topcustomers set ordercount floor(rand()*20);

20. select * from topcustomers order by ordercount desc;

```
mysql> select * from topcustomers order by ordercount desc;
+-----+-----+-----+-----+
| customernumber | contactdate | ordertotal | ordercount |
+-----+-----+-----+-----+
| 148 | 2018-10-26 | 156251.03 | 15 |
| 151 | 2018-10-26 | 177913.95 | 14 |
| 141 | 2018-10-26 | 820689.54 | 13 |
| 124 | 2018-10-26 | 591827.34 | 11 |
| 114 | 2018-10-26 | 180585.07 | 8 |
| 119 | 2018-10-26 | 158573.12 | 7 |
| 323 | 2018-10-26 | 154622.08 | 7 |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

21. drop table topcustomers;