1)

mysql> **select \* from orders;**

+---------+------------+------------+-----------+------------+-----------------+

| ORD\_NUM | ORD\_AMOUNT | ORD\_DATE | CUST\_CODE | AGENT\_CODE | ORD\_DESCRIPTION |

+---------+------------+------------+-----------+------------+-----------------+

| 200100 | 1000.00 | 2019-05-03 | C00013 | A003 | SOD |

| 200101 | 3000.00 | 2019-11-03 | C00001 | A008 | SOD |

| 200102 | 2000.00 | 2019-07-15 | C00012 | A012 | SOD |

| 200103 | 1500.00 | 2019-10-05 | C00021 | A005 | SOD |

| 200104 | 1500.00 | 2019-08-03 | C00006 | A004 | SOD |

| 200105 | 2500.00 | 2019-09-27 | C00025 | A011 | SOD |

| 200106 | 2500.00 | 2019-11-20 | C00005 | A002 | SOD |

| 200107 | 4500.00 | 2019-05-02 | C00007 | A010 | SOD |

| 200108 | 4000.00 | 2019-09-01 | C00008 | A004 | SOD |

| 200109 | 3500.00 | 2019-01-20 | C00011 | A010 | SOD |

| 200110 | 3000.00 | 2019-07-28 | C00019 | A010 | SOD |

| 200112 | 2000.00 | 2019-08-01 | C00016 | A007 | SOD |

| 200113 | 4000.00 | 2019-01-20 | C00022 | A002 | SOD |

| 200114 | 3500.00 | 2019-11-05 | C00002 | A008 | SOD |

| 200116 | 500.00 | 2019-07-20 | C00010 | A009 | SOD |

| 200117 | 800.00 | 2019-03-03 | C00014 | A001 | SOD |

| 200118 | 500.00 | 2019-03-05 | C00023 | A006 | SOD |

| 200119 | 4000.00 | 2019-12-01 | C00007 | A010 | SOD |

| 200120 | 500.00 | 2019-04-01 | C00009 | A002 | SOD |

| 200121 | 1500.00 | 2019-06-06 | C00008 | A004 | SOD |

| 200122 | 2500.00 | 2019-08-28 | C00003 | A004 | SOD |

| 200123 | 500.00 | 2019-04-10 | C00022 | A002 | SOD |

| 200124 | 500.00 | 2019-09-22 | C00017 | A007 | SOD |

| 200125 | 2000.00 | 2019-12-05 | C00018 | A005 | SOD |

| 200126 | 500.00 | 2019-08-30 | C00022 | A002 | SOD |

| 200127 | 2500.00 | 2019-09-02 | C00015 | A003 | SOD |

| 200128 | 3500.00 | 2019-05-06 | C00009 | A002 | SOD |

| 200129 | 2500.00 | 2019-02-27 | C00024 | A006 | SOD |

| 200130 | 2500.00 | 2019-07-02 | C00025 | A011 | SOD |

| 200131 | 900.00 | 2019-11-11 | C00012 | A012 | SOD |

| 200133 | 1200.00 | 2019-10-23 | C00009 | A002 | SOD |

| 200134 | 4200.00 | 2019-08-22 | C00004 | A005 | SOD |

| 200135 | 2000.00 | 2019-02-04 | C00007 | A010 | SOD |

+---------+------------+------------+-----------+------------+-----------------+

33 rows in set (0.00 sec)

2)

mysql> **select \* from customers where CUST\_COUNTRY=' India';**

Empty set (0.00 sec)

mysql> **select \* from customers where CUST\_COUNTRY='India';**

+-----------+-------------+--------------+--------------+-------+---------------+------------+

| CUST\_CODE | CUST\_NAME | WORKING\_AREA | CUST\_COUNTRY | GRADE | PHONE\_NO | AGENT\_CODE |

+-----------+-------------+--------------+--------------+-------+---------------+------------+

| C00005 | Sasikant | Mumbai | India | 1 | 147-25896312 | A002 |

| C00007 | Ramanathan | Chennai | India | 1 | 147-35982364 | A010 |

| C00009 | Ramesh | Mumbai | India | 3 | 147-88713665 | A002 |

| C00011 | Sundariya | Chennai | India | 3 | 147-74168823 | A010 |

| C00014 | Rangarappa | Bangalore | India | 2 | 147-187746352 | A001 |

| C00016 | Venkatpati | Bangalore | India | 2 | 147-14753982 | A007 |

| C00017 | Srinivas | Bangalore | India | 2 | 147-57922677 | A007 |

| C00019 | Yearannaidu | Chennai | India | 1 | 147-22597719 | A010 |

| C00022 | Avinash | Mumbai | India | 2 | 147-12345678 | A002 |

| C00025 | Ravindran | Bangalore | India | 2 | 147-48923647 | A011 |

+-----------+-------------+--------------+--------------+-------+---------------+------------+

10 rows in set (0.00 sec)

3)

mysql> **select \* from customers where CUST\_COUNTRY='Mumbai';**

Empty set (0.00 sec)

mysql> select CUST\_NAME,GRADE from customers where GRADE<3;

+-------------+-------+

| CUST\_NAME | GRADE |

+-------------+-------+

| Micheal | 2 |

| Martin | 2 |

| Winston | 1 |

| Sasikant | 1 |

| Shilton | 1 |

| Ramanathan | 1 |

| Karolina | 1 |

| Steven | 1 |

| Holmes | 2 |

| Rangarappa | 2 |

| Stuart | 1 |

| Venkatpati | 2 |

| Srinivas | 2 |

| Fleming | 2 |

| Yearannaidu | 1 |

| Jacks | 1 |

| Avinash | 2 |

| Karl | 0 |

| Cook | 2 |

| Ravindran | 2 |

+-------------+-------+

20 rows in set (0.00 sec)

4)

mysql> **select \* from customers where CUST\_COUNTRY='UK' or GRADE<2;**

+-----------+-------------+--------------+--------------+-------+--------------+------------+

| CUST\_CODE | CUST\_NAME | WORKING\_AREA | CUST\_COUNTRY | GRADE | PHONE\_NO | AGENT\_CODE |

+-----------+-------------+--------------+--------------+-------+--------------+------------+

| C00004 | Winston | Brisban | Australia | 1 | 032-24798662 | A005 |

| C00005 | Sasikant | Mumbai | India | 1 | 147-25896312 | A002 |

| C00006 | Shilton | Torento | Canada | 1 | 181-79648324 | A004 |

| C00007 | Ramanathan | Chennai | India | 1 | 147-35982364 | A010 |

| C00008 | Karolina | Torento | Canada | 1 | 181-56975534 | A004 |

| C00010 | Charles | Hampshair | UK | 3 | 022-64987300 | A009 |

| C00012 | Steven | San Jose | USA | 1 | 067-19876334 | A012 |

| C00013 | Holmes | London | UK | 2 | 022-23654897 | A003 |

| C00015 | Stuart | London | UK | 1 | 022-79534682 | A003 |

| C00019 | Yearannaidu | Chennai | India | 1 | 147-22597719 | A010 |

| C00021 | Jacks | Brisban | Australia | 1 | 032-99468725 | A005 |

| C00023 | Karl | London | UK | 0 | 022-15634097 | A006 |

| C00024 | Cook | London | UK | 2 | 022-22049735 | A006 |

+-----------+-------------+--------------+--------------+-------+--------------+------------+

13 rows in set (0.00 sec)

5)

**mysql> select \* from customers where CUST\_COUNTRY='UK' or GRADE<2;**

+---------+------------+-------------+

| ORD\_NUM | ORD\_AMOUNT | CUST\_NAME |

+---------+------------+-------------+

| 200101 | 3000.00 | Micheal |

| 200102 | 2000.00 | Steven |

| 200105 | 2500.00 | Ravindran |

| 200106 | 2500.00 | Sasikant |

| 200110 | 3000.00 | Yearannaidu |

| 200112 | 2000.00 | Venkatpati |

| 200122 | 2500.00 | Martin |

| 200125 | 2000.00 | Fleming |

| 200127 | 2500.00 | Stuart |

| 200129 | 2500.00 | Cook |

| 200130 | 2500.00 | Ravindran |

| 200135 | 2000.00 | Ramanathan |

+---------+------------+-------------+

12 rows in set (0.00 sec)

6)

**mysql> select AGENT\_NAME,WORKING\_AREA,COMMISSION,COUNTRY from agents where COMMISSION between 0.10 and 0.12;**

+------------+--------------+------------+---------+

| AGENT\_NAME | WORKING\_AREA | COMMISSION | COUNTRY |

+------------+--------------+------------+---------+

| Peter | Bristol | 0.12 | UK |

| Mukesh | Mumbai | 0.11 | India |

| Alford | New York | 0.12 | USA |

| Benjamin | Hampshair | 0.11 | UK |

| Lucida | San Jose | 0.12 | USA |

+------------+--------------+------------+---------+

5 rows in set (0.00 sec)

7) **mysql> select \* from customers where CUST\_NAME like '\_ak%';**

Empty set (0.00 sec)

8)

**mysql> select AGENT\_NAME,ORD\_AMOUNT from agents a,orders o where a.AGENT\_CODE=o.AGENT\_CODE and ORD\_AMOUNT>4000;**

+------------+------------+

| AGENT\_NAME | ORD\_AMOUNT |

+------------+------------+

| Santakumar | 4500.00 |

| Anderson | 4200.00 |

+------------+------------+

2 rows in set (0.00 sec)

9)

**mysql> select AGENT\_NAME,c.WORKING\_AREA from agents a, customers c where a.AGENT\_CODE=c.AGENT\_CODE and c.WORKING\_AREA='Torento';**

+------------+--------------+

| AGENT\_NAME | WORKING\_AREA |

+------------+--------------+

| Ivan | Torento |

| Ivan | Torento |

| Ivan | Torento |

+------------+--------------+

3 rows in set (0.00 sec)

10) **mysql> select \* from orders where ORD\_DATE like '%-11-%';**

+---------+------------+------------+-----------+------------+-----------------+

| ORD\_NUM | ORD\_AMOUNT | ORD\_DATE | CUST\_CODE | AGENT\_CODE | ORD\_DESCRIPTION |

+---------+------------+------------+-----------+------------+-----------------+

| 200101 | 3000.00 | 2019-11-03 | C00001 | A008 | SOD |

| 200106 | 2500.00 | 2019-11-20 | C00005 | A002 | SOD |

| 200114 | 3500.00 | 2019-11-05 | C00002 | A008 | SOD |

| 200131 | 900.00 | 2019-11-11 | C00012 | A012 | SOD |

+---------+------------+------------+-----------+------------+-----------------+

4 rows in set (0.00 sec)

**mysql> select \* from orders where ORD\_DATE like '%05';**

+---------+------------+------------+-----------+------------+-----------------+

| ORD\_NUM | ORD\_AMOUNT | ORD\_DATE | CUST\_CODE | AGENT\_CODE | ORD\_DESCRIPTION |

+---------+------------+------------+-----------+------------+-----------------+

| 200103 | 1500.00 | 2019-10-05 | C00021 | A005 | SOD |

| 200114 | 3500.00 | 2019-11-05 | C00002 | A008 | SOD |

| 200118 | 500.00 | 2019-03-05 | C00023 | A006 | SOD |

| 200125 | 2000.00 | 2019-12-05 | C00018 | A005 | SOD |

+---------+------------+------------+-----------+------------+-----------------+

4 rows in set (0.00 sec)

11)

12)

mysql> **select max(ORD\_AMOUNT) FROM orders;**

+-----------------+

| max(ORD\_AMOUNT) |

+-----------------+

| 4500.00 |

+-----------------+

1 row in set (0.00 sec)

mysql> **select min(ORD\_AMOUNT) from orders;**

+-----------------+

| **min(ORD\_AMOUNT) |**

+-----------------+

| 500.00 |

+-----------------+

1 row in set (0.00 sec)

mysql> **select avg(ORD\_AMOUNT)from orders;**

+-----------------+

| avg(ORD\_AMOUNT) |

+-----------------+

| 2169.696970 |

+-----------------+

1 row in set (0.00 sec)

mysql> select sum(ORD\_AMOUNT)from orders;

+-----------------+

| sum(ORD\_AMOUNT) |

+-----------------+

| 71600.00 |

+-----------------+

1 row in set (0.00 sec)

13)

mysql> **select count(CUST\_COUNTRY) from customers where CUST\_COUNTRY='USA';**

+---------------------+

| count(CUST\_COUNTRY) |

+---------------------+

| 4 |

+---------------------+

1 row in set (0.00 sec)

14)

15)

16)

17)

mysql> **select distinct COUNTRY from agents;**

+-----------+

| COUNTRY |

+-----------+

| India |

| UK |

| Canada |

| Australia |

| USA |

+-----------+

5 rows in set (0.00 sec)

18)

19)

mysql**> select \* from orders order by ORD\_NUM desc;**

+---------+------------+------------+-----------+------------+-----------------+

| ORD\_NUM | ORD\_AMOUNT | ORD\_DATE | CUST\_CODE | AGENT\_CODE | ORD\_DESCRIPTION |

+---------+------------+------------+-----------+------------+-----------------+

| 200135 | 2000.00 | 2019-02-04 | C00007 | A010 | SOD |

| 200134 | 4200.00 | 2019-08-22 | C00004 | A005 | SOD |

| 200133 | 1200.00 | 2019-10-23 | C00009 | A002 | SOD |

| 200131 | 900.00 | 2019-11-11 | C00012 | A012 | SOD |

| 200130 | 2500.00 | 2019-07-02 | C00025 | A011 | SOD |

| 200129 | 2500.00 | 2019-02-27 | C00024 | A006 | SOD |

| 200128 | 3500.00 | 2019-05-06 | C00009 | A002 | SOD |

| 200127 | 2500.00 | 2019-09-02 | C00015 | A003 | SOD |

| 200126 | 500.00 | 2019-08-30 | C00022 | A002 | SOD |

| 200125 | 2000.00 | 2019-12-05 | C00018 | A005 | SOD |

| 200124 | 500.00 | 2019-09-22 | C00017 | A007 | SOD |

| 200123 | 500.00 | 2019-04-10 | C00022 | A002 | SOD |

| 200122 | 2500.00 | 2019-08-28 | C00003 | A004 | SOD |

| 200121 | 1500.00 | 2019-06-06 | C00008 | A004 | SOD |

| 200120 | 500.00 | 2019-04-01 | C00009 | A002 | SOD |

| 200119 | 4000.00 | 2019-12-01 | C00007 | A010 | SOD |

| 200118 | 500.00 | 2019-03-05 | C00023 | A006 | SOD |

| 200117 | 800.00 | 2019-03-03 | C00014 | A001 | SOD |

| 200116 | 500.00 | 2019-07-20 | C00010 | A009 | SOD |

| 200114 | 3500.00 | 2019-11-05 | C00002 | A008 | SOD |

| 200113 | 4000.00 | 2019-01-20 | C00022 | A002 | SOD |

| 200112 | 2000.00 | 2019-08-01 | C00016 | A007 | SOD |

| 200110 | 3000.00 | 2019-07-28 | C00019 | A010 | SOD |

| 200109 | 3500.00 | 2019-01-20 | C00011 | A010 | SOD |

| 200108 | 4000.00 | 2019-09-01 | C00008 | A004 | SOD |

| 200107 | 4500.00 | 2019-05-02 | C00007 | A010 | SOD |

| 200106 | 2500.00 | 2019-11-20 | C00005 | A002 | SOD |

| 200105 | 2500.00 | 2019-09-27 | C00025 | A011 | SOD |

| 200104 | 1500.00 | 2019-08-03 | C00006 | A004 | SOD |

| 200103 | 1500.00 | 2019-10-05 | C00021 | A005 | SOD |

| 200102 | 2000.00 | 2019-07-15 | C00012 | A012 | SOD |

| 200101 | 3000.00 | 2019-11-03 | C00001 | A008 | SOD |

| 200100 | 1000.00 | 2019-05-03 | C00013 | A003 | SOD |

+---------+------------+------------+-----------+------------+-----------------+

33 rows in set (0.00 sec)

20)

mysql> **select AGENT\_NAME,COMMISSION from agents where COUNTRY='UK';**

+------------+------------+

| AGENT\_NAME | COMMISSION |

+------------+------------+

| Alex | 0.13 |

| McDen | 0.15 |

| Benjamin | 0.11 |

+------------+------------+

3 rows in set (0.00 sec)

21)

**mysql> select count(CUST\_NAME) from customers where GRADE< (select avg(GRADE) FROM customers where WORKING\_AREA='New York');**

+------------------+

| count(CUST\_NAME) |

+------------------+

| 20 |

+------------------+

1 row in set (0.00 sec)

22)

23)

24) mysql> **update customers set WORKING\_AREA='Kolkata' where CUST\_NAME='Avinash';**

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

25) **mysql> insert into agents(AGENT\_CODE,AGENT\_NAME,WORKING\_AREA,COMMISSION,PHONE\_NO,COUNTRY)VALUES('A0013','Peter','Bristol','0.12','078-28877461','UK');**

# Query OK, 1 row affected (0.09 sec)

mysql> select \* from agents where AGENT\_CODE='A0013';

+------------+------------+--------------+------------+--------------+---------+

| AGENT\_CODE | AGENT\_NAME | WORKING\_AREA | COMMISSION | PHONE\_NO | COUNTRY |

+------------+------------+--------------+------------+--------------+---------+

| A0013 | Peter | Bristol | 0.12 | 078-28877461 | UK |

+------------+------------+--------------+------------+--------------+---------+

**mysql> select ORD\_AMOUNT ,ORD\_AMOUNT \* 1.1 as new\_ORD\_AMOUNT from orders;**

+------------+----------------+

| ORD\_AMOUNT | new\_ORD\_AMOUNT |

+------------+----------------+

| 1000.00 | 1100.000 |

| 3000.00 | 3300.000 |

| 2000.00 | 2200.000 |

| 1500.00 | 1650.000 |

| 1500.00 | 1650.000 |

| 2500.00 | 2750.000 |

| 2500.00 | 2750.000 |

| 4500.00 | 4950.000 |

| 4000.00 | 4400.000 |

| 3500.00 | 3850.000 |

| 3000.00 | 3300.000 |

| 2000.00 | 2200.000 |

| 4000.00 | 4400.000 |

| 3500.00 | 3850.000 |

| 500.00 | 550.000 |

| 800.00 | 880.000 |

| 500.00 | 550.000 |

| 4000.00 | 4400.000 |

| 500.00 | 550.000 |

| 1500.00 | 1650.000 |

| 2500.00 | 2750.000 |

| 500.00 | 550.000 |

| 500.00 | 550.000 |

| 2000.00 | 2200.000 |

| 500.00 | 550.000 |

| 2500.00 | 2750.000 |

| 3500.00 | 3850.000 |

| 2500.00 | 2750.000 |

| 2500.00 | 2750.000 |

| 900.00 | 990.000 |

| 1200.00 | 1320.000 |

| 4200.00 | 4620.000 |

| 2000.00 | 2200.000 |

+------------+----------------+

33 rows in set (0.00 sec)