## 27 • SELECT \* FROM users LIMIT 10;

<

Result Grid 1									]			
	identifierHash	_	type	country	language	socialNbFollowers	socialNbFollows	socialProductsLiked	productsListed	productsSold	produc	^
•	-658072000000	0000000	user	Etats-Unis	en	3	8	0	0	0	0	
	-5958540000000	0000000	user	Etats-Unis	en	3	8	0	0	0	0	
	-5341140000000	0000000	user	Etats-Unis	en	3	8	0	0	0	0	
	-1607420000000	0000000	user	Etats-Unis	en	3	8	0	0	0	0	
	-1314730000000	0000000	user	Italie	it	3	8	0	0	0	0	
	7359430000000	00000	user	Etats-Unis	en	3	8	0	0	0	0	
	2705000000000	000000	user	Etats-Unis	en	3	8	0	0	0	0	<b>×</b>
<	· · · · · · · · · · · · · · · · · · ·											
users 1 ×								θ				
Output												
	Action Output		•									
	# Time	Action						Message				
0	18 15:24:33	DEALLOC	ATE PF	REPARE stmt				OK				
0	19 15:25:55	SELECT '	FROM	users LIMIT 10	)			10 row(s) ret	umed			

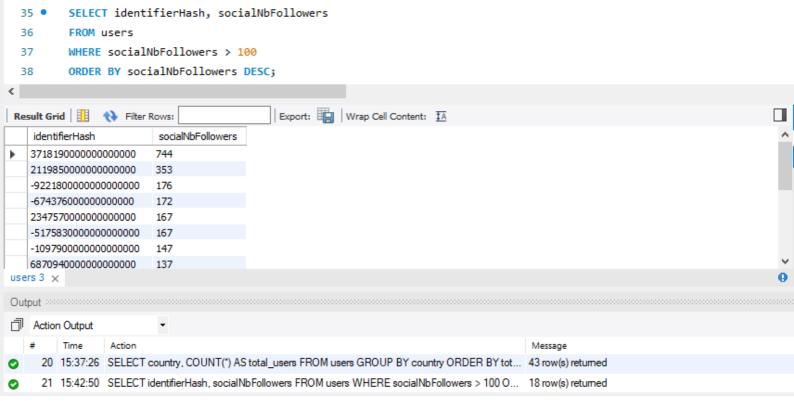
```
SELECT country, COUNT(*) AS total_users
 30 •
         FROM users
 31
         GROUP BY country
 32
         ORDER BY total_users DESC;
 33
                                                                                                                         Export: Wrap Cell Content: IA
   country
               total_users
   Etats-Unis
               266
   France
               108
               103
   Italie
   Royaume-Uni 64
               31
   Espagne
   Allemagne
               21
   Canada
               18
   Australie
               16
Result 2 ×
Action Output
        Time
               Action
                                                                                   Message
     19 15:25:55 SELECT * FROM users LIMIT 10
                                                                                  10 row(s) returned
```

20 15:37:26 SELECT country, COUNT(\*) AS total\_users FROM users GROUP BY country ORDER BY tot... 43 row(s) returned

#SELECT, WHERE, ORDER BY, GROUP BY

#Display TOTAL USERS from each country

28

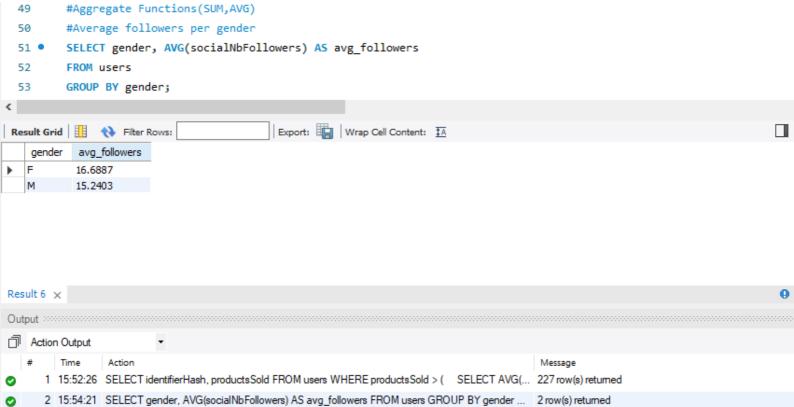


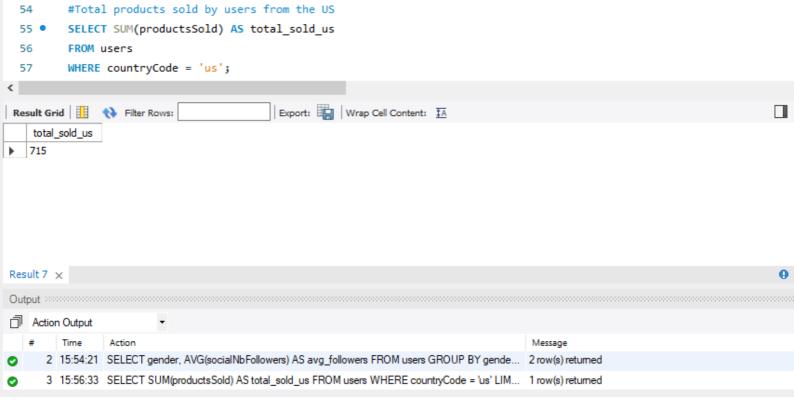
#Show all users with more than 100 followers (WHERE + ORDER BY)

```
#Find users who sold above average number of products
  42
  43 •
          SELECT identifierHash, productsSold
          FROM users
  44
       45
              SELECT AVG(productsSold) FROM users
  46
  47
         );
<
                                            Export: Wrap Cell Content: IA
                                                                                                                               Result Grid 🔢 🚷 Filter Rows:
    identifierHash
                        productsSold
   -10979000000000000000
                        174
   23475700000000000000
                        170
   68709400000000000000
                        163
   -464027000000000000 152
   -517583000000000000 125
   7631790000000000000 123
   674361000000000000
                        108
   25509800000000000000
                        106
users 5 🗙
Output :::::
Action Output
         Time
                 Action
                                                                                        Message
      1 15:52:26 SELECT identifierHash, productsSold FROM users WHERE productsSold > ( SELECT AVG(... 227 row(s) returned
```

41

#Subqueries





```
CREATE VIEW active_users AS
 61 •
          SELECT identifierHash, daysSinceLastLogin, productsSold
 62
          FROM users
 63
 64
         WHERE daysSinceLastLogin <= 15;
         SELECT * FROM active_users;
 65 •
<
                                                                                                                                Export: Wrap Cell Content: IA
    identifierHash
                                          productsSold
                         daysSinceLastLogin
   21189100000000000000
                        11
                                         0
   -1097900000000000000 11
                                         174
   23475700000000000000
                                         170
   6870940000000000000 11
                                         163
   -4640270000000000000 12
                                         152
   7631790000000000000 11
                                         123
   674361000000000000
                                         108
                        11
                        11
   2550980000000000000
                                         106
active_users 8 ×
Action Output
        Time
                Action
                                                                                       Message
      4 15:57:51 CREATE VIEW active_users AS SELECT identifierHash, daysSinceLastLogin, productsSold ... 0 row(s) affected
      5 15:58:12 SELECT * FROM active_users LIMIT 0, 1000
                                                                                       212 row(s) returned
```

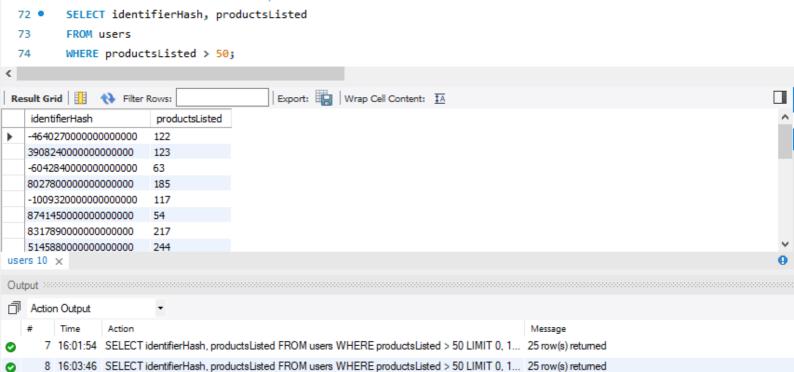
59

60

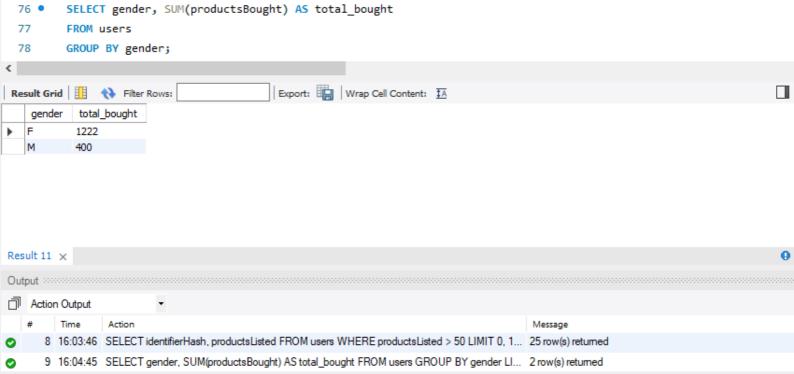
0

#Create views for analysis

#Create a view for active users (last login ≤ 15 days)



#Users who listed more than 50 products



#Gender-wise product buying trend

```
mysql> show databases;
 Database
  information_schema
 mysq1
 nithya
 nithyadb
 performance_schema
 sys
6 rows in set (0.00 sec)
mysql> use nithyadb;
Database changed
mysql> desc emp;
                                    Key | Default | Extra
                            Nul1
 Field
             Type
             varchar(15)
                            YES
                                          NULL
  ename
  ecity
             varchar(10)
                            YES
                                          NULL
 salary
             int
                            YES
                                          NULL
             int
                            NO
                                    PRI
                                          NULL
  eno
             varchar(15)
 eaddress
                            YES
                                          NULL
             varchar(10)
  deptname
                            YES
                                          NULL
6 rows in set (0.00 sec)
```

```
Query OK, 1 row affected (0.01 sec)
mysql> insert into emp values ("Gowthami","Kolar",48000,19,"Kotilinga","Designer");
Query OK, 1 row affected (0.01 sec)
mysql> insert into emp values ("Bhavana", "Bangalore", 50000, 14, "Banaswadi", "IT");
Query OK, 1 row affected (0.01 sec)
mysql> insert into emp values ("Kruthi", "KRPuram",24000,16,"Bangalore","Analyst");
Query OK, 1 row affected (0.28 sec)
mysql> insert into emp values ("Nandhu","Kanakapura",22000,20,"Hassan","Engg");
Query OK, 1 row affected (0.23 sec)
mysql> select * from emp;
           ecity
                        | salary | eno | eaddress
                                                      deptname
 ename
 Bhavana
            Bangalore
                           50000
                                    14
                                        Banaswadi
 Kruthi
            KRPuram
                                    16
                                         Bangalore
                                                       Analyst
                           24000
 Madhuri
                                    17 | Palace Road
                                                      Finance
            Mysore
                          18000
 Gowthami
            Kolar
                          48000
                                        Kotilinga
                                                       Designer
                                    19
 Nandhu
           Kanakapura
                          22000
                                    20 Hassan
                                                       Engg
```

5 rows in set (0.00 sec)

mysql> insert into emp values ("Madhuri","Mysore",18000,17,"Palace Road", "Finance");

```
Query OK, 0 rows affected (0.03 sec)
mysql> insert into company values ("Infosys","Mandya",29);
Query OK, 1 row affected (0.23 sec)
mysql> insert into company values ("Puma", "Bangalore", 25);
Query OK, 1 row affected (0.01 sec)
mysql> insert into company values ("Nike","Mysore",26);
Query OK, 1 row affected (0.01 sec)
mysql> insert into company values ("Adidas","Kolar",27);
Query OK, 1 row affected (0.28 sec)
mysql> insert into company values ("Accenture","Jaipur",22);
Query OK, 1 row affected (0.05 sec)
mysql> select * from company;
          ecity
                     | empno |
ename
| Accenture | Jaipur
                            22
 Puma
           Bangalore
                            25
 Nike
           Mysore
                            26
 Adidas
            Kolar
                            27
Infosys
         Mandya
                            29
5 rows in set (0.00 sec)
```

mysql> create table company (ename varchar(15)not null, ecity varchar(10), empno int primary key);

ename	ecity	salary	eno	eaddress	deptname	ename	ecity	empno
Nandhu	Kanakapura	22000	20	Hassan	Engg	Accenture	Jaipur	22
Gowthami	Kolar	48000	19	Kotilinga	Designer	Accenture	Jaipur	22
Madhuri	Mysore	18000	17	Palace Road	Finance	Accenture	Jaipur	22
Kruthi	KRPuram	24000	16	Bangalore	Analyst	Accenture	Jaipur	22
Bhavana	Bangalore	50000	14	Banaswadi	IT	Accenture	Jaipur	22
Nandhu	Kanakapura	22000	20	Hassan	Engg	Puma	Bangalore	25
Gowthami	Kolar	48000	19	Kotilinga	Designer	Puma	Bangalore	25
Madhuri	Mysore	18000	17	Palace Road	Finance	Puma	Bangalore	25
Cruthi	KRPuram	24000	16	Bangalore	Analyst	Puma	Bangalore	25
Bhavana	Bangalore	50000	14	Banaswadi	IT	Puma	Bangalore	25
landhu	Kanakapura	22000	20	Hassan	Engg	Nike	Mysore	26
owthami	Kolar	48000	19	Kotilinga	Designer	Nike	Mysore	26
Madhuri	Mysore	18000	17	Palace Road	Finance	Nike	Mysore	26
cruthi	KRPuram	24000	16	Bangalore	Analyst	Nike	Mysore	26
Bhavana	Bangalore	50000	14	Banaswadi	IT	Nike	Mysore	26
landhu	Kanakapura	22000	20	Hassan	Engg	Adidas	Kolar	27
owthami	Kolar	48000	19	Kotilinga	Designer	Adidas	Kolar	27
ladhuri	Mysore	18000	17	Palace Road	Finance	Adidas	Kolar	27
ruthi	KRPuram	24000	16	Bangalore	Analyst	Adidas	Kolar	27
havana	Bangalore	50000	14	Banaswadi	IT	Adidas	Kolar	27
landhu	Kanakapura	22000	20	Hassan	Engg	Infosys	Mandya	29
owthami	Kolar	48000	19	Kotilinga	Designer	Infosys	Mandya	29
Madhuri	Mysore	18000	17	Palace Road	Finance	Infosys	Mandya	29
(ruthi	KRPuram	24000	16	Bangalore	Analyst	Infosys	Mandya	29
Bhavana	Bangalore	50000	14	Banaswadi	IT	Infosys	Mandya	29

```
ecity
                           salary
                                           eaddress
                                                          deptname
                                                                              ecity
                                                                                     empno
                                                                      ename
             Bangalore
                            50000
                                      14
                                           Banaswadi
                                                          IT
                                                                      NULL
                                                                              NULL
                                                                                        NULL
 Bhavana
             KRPuram
                                      16
                                                          Analyst
 Kruthi
                            24000
                                           Bangalore
                                                                      NULL
                                                                              NULL
                                                                                        NULL
                                           Palace Road
 Madhuri
             Mysore
                            18000
                                      17
                                                          Finance
                                                                      NULL
                                                                              NULL
                                                                                        NULL
                                      19
 Gowthami
             Kolar
                            48000
                                           Kotilinga
                                                          Designer
                                                                      NULL
                                                                              NULL
                                                                                        NULL
 Nandhu
                            22000
                                      20
                                                                      NULL
                                                                              NULL
                                                                                        NULL
             Kanakapura
                                           Hassan
                                                          Engg
5 rows in set (0.00 sec)
mysql> select * from emp right outer join on emp.eno = company.empno;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL
company.empno' at line 1
mysql> select * from emp right outer join company on emp.eno = company.empno;
 ename
          ecity | salary
                            eno
                                   eaddress
                                               deptname
                                                                        ecity
                                                                                   empno
 NULL
          NULL
                     NULL
                            NULL
                                   NULL
                                               NULL
                                                           Accenture
                                                                        Jaipur
                                                                                        22
                                               NULL
                                                                                        25
 NULL
          NULL
                     NULL
                            NULL
                                   NULL
                                                           Puma
                                                                        Bangalore
                                                           Nike
                                                                                        26
 NULL
          NULL
                     NULL
                            NULL
                                    NULL
                                               NULL
                                                                        Mysore
                                                                                        27
 NULL
          NULL
                     NULL
                            NULL
                                    NULL
                                               NULL
                                                           Adidas
                                                                        Kolar
 NULL
          NULL
                     NULL
                            NULL
                                   NULL
                                               NULL
                                                           Infosys
                                                                        Mandya
                                                                                        29
```

mysql> select \* from emp left outer join company on emp.eno = company.empno;

5 rows in set (0.00 sec)

ename	ecity	salary	eno	eaddress	deptname	ename	ecity	empno
Bhavana   Kruthi   Madhuri   Gowthami   Nandhu   NULL   NULL   NULL	Bangalore KRPuram Mysore Kolar Kanakapura NULL NULL NULL	50000 24000 18000 18000 22000 NULL NULL NULL	14	Banaswadi Bangalore Palace Road Kotilinga Hassan NULL NULL NULL	TIT   Analyst   Finance   Designer   Engg   NULL   NULL   NULL   NULL   NULL   NULL   NULL   NULL   NULL	NULL NULL NULL NULL NULL NULL L NULL NULL NULL NULL Accenture Puma Nike Adidas	NULL NULL NULL NULL NULL NULL SULL NULL Jaipur Bangalore Mysore Kolar	NULL     NULL     NULL     NULL     NULL     NULL     22     25     26
NULL +	NULL	NULL	NULL	NULL	NULL +	Infosys +	Mandya	29   ++

10 rows in set (0.00 sec)