```
mysql> select user();
+----+
+----+
| root@localhost |
+----+
1 row in set (0.00 sec)
mysql> create user 'ajaykumar'@'localhost';
Query OK, 0 rows affected (0.11 sec)
mysql> show grants for 'ajaykumar'@'localhost';
+----+
| Grants for ajaykumar@localhost |
+----+
| GRANT USAGE ON *.* TO `ajaykumar`@`localhost` |
+----+
1 row in set (0.01 sec)
mysql> grant select on *.* to 'ajaykumar'@'localhost';
Query OK, 0 rows affected (0.01 sec)
mysql> show grants for 'ajaykumar'@'localhost';
+----+
| Grants for ajaykumar@localhost |
+----+
GRANT SELECT ON *.* TO `ajaykumar`@`localhost` |
+----+
1 row in set (0.00 sec)
mysql> show databases;
+----+
| Database |
+----+
| ajaykumar
| bianca
| information_schema |
mysql
| performance_schema |
| studyhive | sys |
+----+
7 rows in set (0.03 sec)
mysql> show tables;
ERROR 1046 (3D000): No database selected
mysql> use ajaykumar;
Database changed
mysql> show tables;
+----+
| Tables_in_ajaykumar |
+----+
customers
department
```

```
emp audit
employee
orders
| sal_history
| view customer order |
| view_order |
+----+
8 rows in set (0.01 sec)
mysql> grant insert on ajaykumar.* to 'ajaykumar'@'localhost';
Query OK, 0 rows affected (0.00 sec)
mysql> grant update on ajaykumar.orders to 'ajaykumar'@'localhost';
Query OK, 0 rows affected (0.01 sec)
mysql> show grants for 'ajaykumar'@'localhost';
+-----
| Grants for ajaykumar@localhost
| GRANT SELECT ON *.* TO `ajaykumar`@`localhost`
GRANT INSERT ON `ajaykumar`.* TO `ajaykumar`@`localhost`
| GRANT UPDATE ON `ajaykumar`.`orders` TO `ajaykumar`@`localhost` |
+-----+
3 rows in set (0.00 sec)
mysql> desc employee
| Field | Type | Null | Key | Default | Extra |
+----+
| Eno | int | NO | PRI | NULL
| fname | varchar(20) | NO | NULL | |
| lname | varchar(20) | NO | NULL |
| DOB | date | NO | NULL |
| salary | int | NO | NULL |
| dnum | int | YES | MUL | NULL |
+----+---+----+----
6 rows in set (0.02 sec)
mysql> grant update(Eno) on ajaykumar.employee to 'ajaykumar'@'localhost';
Query OK, 0 rows affected (0.03 sec)
mysql> show grants for 'ajaykumar'@'localhost';
| Grants for ajaykumar@localhost
GRANT SELECT ON *.* TO `ajaykumar`@`localhost`
| GRANT INSERT ON `ajaykumar`.* TO `ajaykumar`@`localhost`
| GRANT UPDATE (`Eno`) ON `ajaykumar`.`employee` TO `ajaykumar`@`localhost` |
GRANT UPDATE ON `ajaykumar`.`orders` TO `ajaykumar`@`localhost`
4 rows in set (0.00 sec)
mysql> system mysql -u ajaykumar -p
Enter password:
```

Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 11

Sonyon your ion: 8 1 0 MySQL Community Sonyon GDL

Server version: $8.1.0~{
m MySQL}$ Community Server - ${
m GPL}$

mysql> select user();

1 row in set (0.00 sec)

mysql> use ajaykumar;
Database changed
mysql> select * from employee;

Eno	fname	+ lname	DOB	salary	+ dnum
2	Aaron	 Vaz	2002-04-04	109999	1
j 3 j	Binaka	Noronha	2005-01-26	55555	1
j 4 j	Chris	Shukla	2004-12-31	44444	2
5	Sobin	Sabu	2004-12-24	33333	3
6	Ajaykumar	Nadar	2003-08-20	44444	1
7	Kurti	Bhave	2005-01-26	55555	1
8	Viral	Soni	2004-12-31	12345	4
9	Ansh	Shetty	2002-12-24	12345	4
10	Joseph	Kumari	2003-10-20	12345	2
11	Vaidehi	Golegoa	2004-01-23	12345	4
+		+	+	+	+

10 rows in set (0.02 sec)

mysql> select * from orders;

+	+	+
order_id	amount	customer_id
+	+	+
1	1233	10
2	67212	2
3	3423	4
4	5262	8
5	7838	5
6	1233	10
7	67212	2
8	3423	4
9	5262	8
10	7838	5
+	+	+

10 rows in set (0.05 sec)

mysql> show grants for 'ajaykumar'@'localhost';

```
| GRANT UPDATE ON `ajaykumar`.`orders` TO `ajaykumar`@`localhost`
4 rows in set (0.04 sec)
mysql> insert into employee value (1, "Subho", "Modak", "2004-12-31", 12344, 1);
Query OK, 1 row affected (0.03 sec)
mysql> select * from employee;
+----+
| Eno | fname | lname | DOB | salary | dnum |
+----+
| 1 | Subho | Modak | 2004-12-31 | 12344 | 1 | 2 | Aaron | Vaz | 2002-04-04 | 109999 | 1 |
   3 | Binaka | Noronha | 2005-01-26 | 55555 | 1 |

      4 | Chris
      Shukla
      2004-12-31
      44444
      2 |

      5 | Sobin
      Sabu
      2004-12-24
      33333
      3 |

      6 | Ajaykumar
      Nadar
      2003-08-20
      44444
      1 |

  7 | Kurti | Bhave | 2005-01-26 | 55555 | 1 | 8 | Viral | Soni | 2004-12-31 | 12345 | 4 | 9 | Ansh | Shetty | 2002-12-24 | 12345 | 4 | 10 | Joseph | Kumari | 2003-10-20 | 12345 | 2 |
| 11 | Vaidehi | Golegoa | 2004-01-23 | 12345 | 4 |
+----+
11 rows in set (0.00 sec)
mysql> update orders set amount=55555 where order_id=2;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> revoke update(Eno) on ajaykumar.employee from 'ajaykumar'@'localhost';
ERROR 1142 (42000): GRANT command denied to user 'ajaykumar'@'localhost' for table
'employee'
mysql> system mysql -u root -p
Enter password: *******
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 12
Server version: 8.1.0 MySQL Community Server - GPL
mysql> revoke update(Eno) on ajaykumar.employee from 'ajaykumar'@'localhost';
Query OK, 0 rows affected (0.01 sec)
mysql> show grants for 'ajaykumar'@'localhost';
+-----
| Grants for ajaykumar@localhost
+-----
| GRANT SELECT ON *.* TO `ajaykumar`@`localhost`
GRANT INSERT ON `ajaykumar`.* TO `ajaykumar`@`localhost`
| GRANT UPDATE ON `ajaykumar`.`orders` TO `ajaykumar`@`localhost` |
+----+
3 rows in set (0.00 sec)
mysql> revoke insert on ajaykumar.* from 'ajaykumar'@'localhost';
Query OK, 0 rows affected (0.01 sec)
mysql> show grants for 'ajaykumar'@'localhost';
```

```
| Grants for ajaykumar@localhost
+----+
| GRANT SELECT ON *.* TO `ajaykumar`@`localhost`
GRANT UPDATE ON `ajaykumar`.`orders` TO `ajaykumar`@`localhost`
+----+
2 rows in set (0.00 sec)
mysql> grant all privileges on *.* to 'ajaykumar'@'localhost' with grant option;
Query OK, 0 rows affected (0.01 sec)
mysql> show grants for 'ajaykumar'@'localhost';
+-----+
| Grants for ajaykumar@localhost
+-----+
GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, RELOAD, SHUTDOWN, PROCESS,
FILE, REFERENCES, INDEX, ALTER, SHOW DATABASES, SUPER, CREATE TEMPORARY TABLES,
LOCK TABLES, EXECUTE, REPLICATION SLAVE, REPLICATION CLIENT, CREATE VIEW, SHOW
VIEW, CREATE ROUTINE, ALTER ROUTINE, CREATE USER, EVENT, TRIGGER, CREATE
TABLESPACE, CREATE ROLE, DROP ROLE ON *.* TO `ajaykumar`@`localhost` WITH GRANT
OPTION
GRANT
APPLICATION PASSWORD ADMIN, AUDIT ABORT EXEMPT, AUDIT ADMIN, AUTHENTICATION POLICY AD
MIN, BACKUP_ADMIN, BINLOG_ADMIN, BINLOG_ENCRYPTION_ADMIN, CLONE_ADMIN, CONNECTION_ADMIN
, ENCRYPTION KEY ADMIN, FIREWALL EXEMPT, FLUSH OPTIMIZER COSTS, FLUSH STATUS, FLUSH TAB
LES, FLUSH_USER_RESOURCES, GROUP_REPLICATION_ADMIN, GROUP_REPLICATION_STREAM, INNODB_R
EDO LOG ARCHIVE, INNODB REDO LOG ENABLE, PASSWORDLESS USER ADMIN, PERSIST RO VARIABLE
S ADMIN, REPLICATION APPLIER, REPLICATION SLAVE ADMIN, RESOURCE GROUP ADMIN, RESOURCE
GROUP USER, ROLE ADMIN, SENSITIVE VARIABLES OBSERVER, SERVICE CONNECTION ADMIN, SESSIO
N_VARIABLES_ADMIN,SET_USER_ID,SHOW_ROUTINE,SYSTEM_USER,SYSTEM_VARIABLES_ADMIN,TABL
E_ENCRYPTION_ADMIN,TELEMETRY_LOG_ADMIN,XA_RECOVER_ADMIN ON *.* TO
`ajaykumar`@`localhost` WITH GRANT OPTION |
| GRANT UPDATE ON `ajaykumar`.`orders` TO `ajaykumar`@`localhost`
Т
                    -----+
3 rows in set (0.00 sec)
mysql> alter user 'ajaykumar'@'localhost' identified by 'root' account lock;
Query OK, 0 rows affected (0.06 sec)
mysql> system mysql -u ajaykumar -p
Enter password: ****
ERROR 3118 (HY000): Access denied for user 'ajaykumar'@'localhost'. Account is
locked.
mysql> system mysql -u ajaykumar -p
Enter password:
ERROR 1045 (28000): Access denied for user 'ajaykumar'@'localhost' (using
password: NO)
mysql> system mysql -u ajaykumar -p
Enter password: ****
ERROR 3118 (HY000): Access denied for user 'ajaykumar'@'localhost'. Account is
locked.
mysql> alter user 'ajaykumar'@'localhost' identified by 'root' account unlock;
```

```
Query OK, 0 rows affected (0.05 sec)
mysql> system mysql -u ajaykumar -p
Enter password: ****
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 16
Server version: 8.1.0 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> system mkdir
The syntax of the command is incorrect.
mysql> system mkdir "ajay"
Access is denied.
mysql> swt autocommit=0;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'swt
autocommit=0' at line 1
mysql> use ajaykumar
Database changed
mysql> swt autocommit=0;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'swt
autocommit=0' at line 1
mysql> set autocommit=0;
Query OK, 0 rows affected (0.04 sec)
mysql> desc employee;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| fname | varchar(20) | NO | | NULL |
| lname | varchar(20) | NO | NULL |
| DOB | date | NO | NULL |
| salary | int | NO | NULL |
| dnum | int | YES | MUL | NULL |
                     .+----+
+-----
6 rows in set (0.05 sec)
mysql> insert into employee value (32, 'Vanilla', 'Strawberry', "2003-03-03",
12323, 1);
Query OK, 1 row affected (0.04 sec)
mysql> savepoint insertion;
Query OK, 0 rows affected (0.04 sec)
mysql> select * from employee;
```

+----+

Eno	fname	lname	DOB	salary	dnum
++- 1	+ Subho l	Modak	 2004-12-31	++ 12344	+ 1
	Aaron	Vaz	2002-04-04	109999	1
3	Binaka	Noronha	2005-01-26	55555	1
4	Chris	Shukla	2004-12-31	44444	2
5	Sobin	Sabu	2004-12-24	33333	3
6	Ajaykumar	Nadar	2003-08-20	44444	1
7	Kurti	Bhave	2005-01-26	55555	1
8	Viral	Soni	2004-12-31	12345	4
9	Ansh	Shetty	2002-12-24	12345	4
10	Joseph	Kumari	2003-10-20	12345	2
11	Vaidehi	Golegoa	2004-01-23	12345	4
32	Vanilla	Strawberry	2003-03-03	12323	1
++-	+			++	+

12 rows in set (0.00 sec)

mysql> insert into employee value (33, 'Mango', 'Orange', "2003-03-03", 12323, 1);
Query OK, 1 row affected (0.04 sec)

mysql> select * from employee;

+		+	+	+	+
Eno	fname	lname	DOB	salary	dnum
1	Subho	Modak	2004-12-31	12344	1
2	Aaron	Vaz	2002-04-04	109999	1
3	Binaka	Noronha	2005-01-26	55555	1
4	Chris	Shukla	2004-12-31	44444	2
5	Sobin	Sabu	2004-12-24	33333	3
6	Ajaykumar	Nadar	2003-08-20	44444	1
7	Kurti	Bhave	2005-01-26	55555	1
8	Viral	Soni	2004-12-31	12345	4
9	Ansh	Shetty	2002-12-24	12345	4
10	Joseph	Kumari	2003-10-20	12345	2
11	Vaidehi	Golegoa	2004-01-23	12345	4
32	Vanilla	Strawberry	2003-03-03	12323	1
33	Mango	Orange	2003-03-03	12323	1
+		+	+	+	+

13 rows in set (0.00 sec)

mysql> rollback to insertion; Query OK, 0 rows affected (0.04 sec)

mysql> select * from employee;

	L	L	.	L	
Eno	fname	lname	DOB	salary	dnum
1	Subho	Modak	2004-12-31	12344	1
2	Aaron	Vaz	2002-04-04	109999	1
3	Binaka	Noronha	2005-01-26	55555	1
4	Chris	Shukla	2004-12-31	44444	2
5	Sobin	Sabu	2004-12-24	33333	3
6	Ajaykumar	Nadar	2003-08-20	44444	1
7	Kurti	Bhave	2005-01-26	55555	1
8	Viral	Soni	2004-12-31	12345	4

```
| 9 | Ansh | Shetty | 2002-12-24 | 12345 | 4 |
| 10 | Joseph | Kumari | 2003-10-20 | 12345 | 2 |
| 11 | Vaidehi | Golegoa | 2004-01-23 | 12345 | 4 |
| 32 | Vanilla | Strawberry | 2003-03-03 | 12323 | 1 |
+----+
12 rows in set (0.00 sec)
mysql>
mysql> update employee set fname='Bianka' where fname="Binaca";
Query OK, 0 rows affected (0.01 sec)
Rows matched: 0 Changed: 0 Warnings: 0
mysql> rollback updated;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near
'updated' at line 1
mysql> savepoint updated;
Query OK, 0 rows affected (0.00 sec)
```

mysql> update employee set fname="Biyanca" where fname="Bianka"; Query OK, 0 rows affected (0.00 sec) Rows matched: 0 Changed: 0 Warnings: 0

mysql> select * from employee;

+	> +	fname	lname	DOB +	salary	dnum
· 1	L	Subho	Modak	2004-12-31	12344	1
2	2	Aaron	Vaz	2002-04-04	109999	1
3	3	Binaka	Noronha	2005-01-26	55555	1
4	1	Chris	Shukla	2004-12-31	44444	2
5	5	Sobin	Sabu	2004-12-24	33333	3
6	5	Ajaykumar	Nadar	2003-08-20	44444	1
7	7	Kurti	Bhave	2005-01-26	55555	1
8	3	Viral	Soni	2004-12-31	12345	4
9	9	Ansh	Shetty	2002-12-24	12345	4
16	3	Joseph	Kumari	2003-10-20	12345	2
11	L	Vaidehi	Golegoa	2004-01-23	12345	4
32	2	Vanilla	Strawberry	2003-03-03	12323	1

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

12 rows in set (0.00 sec)

mysql> rollback updated; Query OK, 1 rows affected (0.00 sec)

mysql> commit; Query OK, 0 rows affected (0.04 sec)

mysql>