

Name	Shreeya Nemade, Dnyandeep Yashwant Gaonkar, Rudrapratapsing Rajput																																																																																
UID	2024801009, 2024801003, 2024801014																																																																																
Experiment No.	7																																																																																
Aim	TCL, DCL And Authentications.																																																																																
DCL Command	<div>Created a User Shreeya :</div> <div>mysql> create user 'Shreeya' identified by 'Shreeya@222'; Query OK, 0 rows affected (0.02 sec)</div> <div>Grant and Revoke Access From User :</div> <div>mysql> GRANT ALL privileges on Donne to 'Shreeya'; Query OK, 0 rows affected (0.01 sec)</div> <div>mysql> flush Privileges; Query OK, 0 rows affected (0.01 sec)</div> <div>mysql> Grant insert, select on Donor to 'Shreeya'; Query OK, 0 rows affected (0.01 sec)</div> <div>Login:</div> <div>c:\Users\Shreeya Nemade>mysql -u Shreeya -p Enter password: ***** Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 19 Server version: 8.0.39 MySQL Community Server - GPL Copyright (c) 2000, 2024, 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> 1</div> <div>Performing queries with created user:</div> <div>mysql> Select * from Donor;</div> <table><tr><th>id</th><th>firstname</th><th>lastname</th><th>contact</th><th>email</th><th>bloodgroup</th><th>Age</th><th>healthstatus</th></tr><tr><td>101</td><td>Sujal</td><td>Dingankar</td><td>7798802841</td><td>suja1.dingankar@spit.ac.in</td><td>O+</td><td>20</td><td>Healthy</td></tr><tr><td>102</td><td>Shreeya</td><td>Nemade</td><td>7698231082</td><td>shreeya.nemade@spit.ac.in</td><td>A+</td><td>19</td><td>Healthy</td></tr><tr><td>103</td><td>Harsha</td><td>Surwase</td><td>5612798561</td><td>harsha.surwase@spit.ac.in</td><td>B+</td><td>21</td><td>Healthy</td></tr><tr><td>104</td><td>Avi</td><td>Patil</td><td>1234598745</td><td>avinash.patil@spit.ac.in</td><td>AB+</td><td>18</td><td>Healthy</td></tr><tr><td>105</td><td>Shruti</td><td>Bhuvad</td><td>455612345</td><td>shruti.bhuvad@spit.ac.in</td><td>A+</td><td>22</td><td>Healthy</td></tr><tr><td>106</td><td>John</td><td>Doe</td><td>7894561230</td><td>john.doe@example.com</td><td>O+</td><td>25</td><td>Healthy</td></tr><tr><td>107</td><td>Jane</td><td>Smith</td><td>7894567890</td><td>jane.smith@example.com</td><td>O+</td><td>30</td><td>Healthy</td></tr><tr><td>108</td><td>Mark</td><td>Taylor</td><td>7894563456</td><td>mark.taylor@example.com</td><td>O+</td><td>19</td><td>Healthy</td></tr><tr><td>109</td><td>Lucy</td><td>Brown</td><td>7894569876</td><td>lucy.brown@example.com</td><td>A+</td><td>35</td><td>Healthy</td></tr></table> <div>9 rows in set (0.00 sec)</div>	id	firstname	lastname	contact	email	bloodgroup	Age	healthstatus	101	Sujal	Dingankar	7798802841	suja1.dingankar@spit.ac.in	O+	20	Healthy	102	Shreeya	Nemade	7698231082	shreeya.nemade@spit.ac.in	A+	19	Healthy	103	Harsha	Surwase	5612798561	harsha.surwase@spit.ac.in	B+	21	Healthy	104	Avi	Patil	1234598745	avinash.patil@spit.ac.in	AB+	18	Healthy	105	Shruti	Bhuvad	455612345	shruti.bhuvad@spit.ac.in	A+	22	Healthy	106	John	Doe	7894561230	john.doe@example.com	O+	25	Healthy	107	Jane	Smith	7894567890	jane.smith@example.com	O+	30	Healthy	108	Mark	Taylor	7894563456	mark.taylor@example.com	O+	19	Healthy	109	Lucy	Brown	7894569876	lucy.brown@example.com	A+	35	Healthy
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```
mysql> Insert into Donor values(110,"Manu","Pandey","4561298742","manu.pandey@spit.ac.in","AB+",26,"Healthy");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> Select * from Donor;
```

id	firstname	lastname	contact	email	bloodgroup	Age	healthstatus
101	Sujal	Dingankar	7798802841	sujal.dingankar@spit.ac.in	O+	20	Healthy
102	Shreeya	Nemade	7698231082	shreeya.nemade@spit.ac.in	A+	19	Healthy
103	Harsha	Surwase	5612798561	harsha.surwase@spit.ac.in	B+	21	Healthy
104	Avi	Patil	1234598745	avinash.patil@spit.ac.in	AB+	18	Healthy
105	Shruti	Bhuvad	455612345	shruti.bhuvad@spit.ac.in	A+	22	Healthy
106	John	Doe	7894561230	john.doe@example.com	O+	25	Healthy
107	Jane	Smith	7894567890	jane.smith@example.com	O+	30	Healthy
108	Mark	Taylor	7894563456	mark.taylor@example.com	O+	19	Healthy
109	Lucy	Brown	7894569876	lucy.brown@example.com	A+	35	Healthy
110	Manu	Pandey	4561298742	manu.pandey@spit.ac.in	AB+	26	Healthy

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

```
mysql> Delete from Donor where id = 110;
```

```
ERROR 1142 (42000): DELETE command denied to user 'Shreeya'@'localhost' for table 'donor'
```

Revoke the given access from user:

```
mysql> revoke insert, select on Donor from 'Shreeya';
Query OK, 0 rows affected (0.01 sec)
```

TCL Command:

Starting Transaction.

```
mysql> Start Transaction;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> Select * from Donor;
```

id	firstname	lastname	contact	email	bloodgroup	Age	healthstatus
101	Sujal	Dingankar	7798802841	sujal.dingankar@spit.ac.in	O+	20	Healthy
102	Shreeya	Nemade	7698231082	shreeya.nemade@spit.ac.in	A+	19	Healthy
103	Harsha	Surwase	5612798561	harsha.surwase@spit.ac.in	B+	21	Healthy
104	Avi	Patil	1234598745	avinash.patil@spit.ac.in	AB+	18	Healthy
105	Shruti	Bhuvad	455612345	shruti.bhuvad@spit.ac.in	A+	22	Healthy
106	John	Doe	7894561230	john.doe@example.com	O+	25	Healthy
107	Jane	Smith	7894567890	jane.smith@example.com	O+	30	Healthy
108	Mark	Taylor	7894563456	mark.taylor@example.com	O+	19	Healthy
109	Lucy	Brown	7894569876	lucy.brown@example.com	A+	35	Healthy
110	Manu	Pandey	4561298742	manu.pandey@spit.ac.in	AB+	26	Healthy

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

Inserted data in the Donor table after transaction is started.

```
mysql> Insert into Donor values(111,'Rakesh','Ramane','4531022236','rakesh.ramane@spit.ac.in','B+',40,'Healthy');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> Select * from Donor;
```

id	firstname	lastname	contact	email	bloodgroup	Age	healthstatus
101	Sujal	Dingankar	7798802841	sujal.dingankar@spit.ac.in	O+	20	Healthy
102	Shreeya	Nemade	7698231082	shreeya.nemade@spit.ac.in	A+	19	Healthy
103	Harsha	Surwase	5612798561	harsha.surwase@spit.ac.in	B+	21	Healthy
104	Avi	Patil	1234598745	avinash.patil@spit.ac.in	AB+	18	Healthy
105	Shruti	Bhuvad	455612345	shruti.bhuvad@spit.ac.in	A+	22	Healthy
106	John	Doe	7894561230	john.doe@example.com	O+	25	Healthy
107	Jane	Smith	7894567890	jane.smith@example.com	O+	30	Healthy
108	Mark	Taylor	7894563456	mark.taylor@example.com	O+	19	Healthy
109	Lucy	Brown	7894569876	lucy.brown@example.com	A+	35	Healthy
110	Manu	Pandey	4561298742	manu.pandey@spit.ac.in	AB+	26	Healthy
111	Rakesh	Ramane	4531022236	rakesh.ramane@spit.ac.in	B+	40	Healthy

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

Rollback:

```
mysql> Rollback;
Query OK, 0 rows affected (0.01 sec)

mysql> Select * from Donor;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | firstname | lastname | contact | email | bloodgroup | Age | healthstatus |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Sujal | Dingankar | 7798802841 | sujal.dingankar@spit.ac.in | O+ | 20 | Healthy |
| 102 | Shreeya | Nemade | 7698231082 | shreeya.nemade@spit.ac.in | A+ | 19 | Healthy |
| 103 | Harsha | Surwase | 5612798561 | harsha.surwase@spit.ac.in | B+ | 21 | Healthy |
| 104 | Avi | Patil | 1234598745 | avinash.patil@spit.ac.in | AB+ | 18 | Healthy |
| 105 | Shruti | Bhuvad | 455612345 | shruti.bhuvad@spit.ac.in | A+ | 22 | Healthy |
| 106 | John | Doe | 7894561230 | john.doe@example.com | O+ | 25 | Healthy |
| 107 | Jane | Smith | 7894567890 | jane.smith@example.com | O+ | 30 | Healthy |
| 108 | Mark | Taylor | 7894563456 | mark.taylor@example.com | O+ | 19 | Healthy |
| 109 | Lucy | Brown | 7894569876 | lucy.brown@example.com | A+ | 35 | Healthy |
| 110 | Manu | Pandey | 4561298742 | manu.pandey@spit.ac.in | AB+ | 26 | Healthy |
+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

Commit:

```
mysql> Insert into Donor values(111,'Rakesh','Ramane','4531022236','rakesh.ramane@spit.ac.in','B+',40,'Healthy');
Query OK, 1 row affected (0.01 sec)

mysql> commit;
Query OK, 0 rows affected (0.00 sec)

mysql> Select * from Donor;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | firstname | lastname | contact | email | bloodgroup | Age | healthstatus |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Sujal | Dingankar | 7798802841 | sujal.dingankar@spit.ac.in | O+ | 20 | Healthy |
| 102 | Shreeya | Nemade | 7698231082 | shreeya.nemade@spit.ac.in | A+ | 19 | Healthy |
| 103 | Harsha | Surwase | 5612798561 | harsha.surwase@spit.ac.in | B+ | 21 | Healthy |
| 104 | Avi | Patil | 1234598745 | avinash.patil@spit.ac.in | AB+ | 18 | Healthy |
| 105 | Shruti | Bhuvad | 455612345 | shruti.bhuvad@spit.ac.in | A+ | 22 | Healthy |
| 106 | John | Doe | 7894561230 | john.doe@example.com | O+ | 25 | Healthy |
| 107 | Jane | Smith | 7894567890 | jane.smith@example.com | O+ | 30 | Healthy |
| 108 | Mark | Taylor | 7894563456 | mark.taylor@example.com | O+ | 19 | Healthy |
| 109 | Lucy | Brown | 7894569876 | lucy.brown@example.com | A+ | 35 | Healthy |
| 110 | Manu | Pandey | 4561298742 | manu.pandey@spit.ac.in | AB+ | 26 | Healthy |
| 111 | Rakesh | Ramane | 4531022236 | rakesh.ramane@spit.ac.in | B+ | 40 | Healthy |
+-----+-----+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

Savepoint:

```
mysql> Savepoint SP1;
Query OK, 0 rows affected (0.00 sec)

mysql> Insert into Donor values(112,'Rohit','Ramane','4531011112','rohit.ramane@spit.ac.in','B+',30,'Healthy');
Query OK, 1 row affected (0.00 sec)

mysql> Savepoint SP2;
Query OK, 0 rows affected (0.00 sec)

mysql> Insert into Donor values(113,'Rahul','Jha','2154611112','rahul.jha@spit.ac.in','AB+',28,'Healthy');
Query OK, 1 row affected (0.00 sec)

mysql> Select * from Donor;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | firstname | lastname | contact | email | bloodgroup | Age | healthstatus |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Sujal | Dingankar | 7798802841 | sujal.dingankar@spit.ac.in | O+ | 20 | Healthy |
| 102 | Shreeya | Nemade | 7698231082 | shreeya.nemade@spit.ac.in | A+ | 19 | Healthy |
| 103 | Harsha | Surwase | 5612798561 | harsha.surwase@spit.ac.in | B+ | 21 | Healthy |
| 104 | Avi | Patil | 1234598745 | avinash.patil@spit.ac.in | AB+ | 18 | Healthy |
| 105 | Shruti | Bhuvad | 455612345 | shruti.bhuvad@spit.ac.in | A+ | 22 | Healthy |
| 106 | John | Doe | 7894561230 | john.doe@example.com | O+ | 25 | Healthy |
| 107 | Jane | Smith | 7894567890 | jane.smith@example.com | O+ | 30 | Healthy |
| 108 | Mark | Taylor | 7894563456 | mark.taylor@example.com | O+ | 19 | Healthy |
| 109 | Lucy | Brown | 7894569876 | lucy.brown@example.com | A+ | 35 | Healthy |
| 110 | Manu | Pandey | 4561298742 | manu.pandey@spit.ac.in | AB+ | 26 | Healthy |
| 111 | Rakesh | Ramane | 4531022236 | rakesh.ramane@spit.ac.in | B+ | 40 | Healthy |
| 112 | Rohit | Ramane | 4531011112 | rohit.ramane@spit.ac.in | B+ | 30 | Healthy |
| 113 | Rahul | Jha | 2154611112 | rahul.jha@spit.ac.in | AB+ | 28 | Healthy |
+-----+-----+-----+-----+-----+-----+-----+-----+
13 rows in set (0.00 sec)
```

Rollback to Savepoint:

```
mysql> Rollback to savepoint SP2;
Query OK, 0 rows affected (0.00 sec)

mysql> Select * from Donor;
```

id	firstname	lastname	contact	email	bloodgroup	Age	healthstatus
101	Sujal	Dingankar	7798802841	sujal.dingankar@spit.ac.in	O+	20	Healthy
102	Shreeya	Nemade	7698231082	shreeya.nemade@spit.ac.in	A+	19	Healthy
103	Harsha	Surwase	5612798561	harsha.surwase@spit.ac.in	B+	21	Healthy
104	Avi	Patil	1234598745	avinash.patil@spit.ac.in	AB+	18	Healthy
105	Shruti	Bhuvad	455612345	shruti.bhuvad@spit.ac.in	A+	22	Healthy
106	John	Doe	7894561230	john.doe@example.com	O+	25	Healthy
107	Jane	Smith	7894567890	jane.smith@example.com	O+	30	Healthy
108	Mark	Taylor	7894563456	mark.taylor@example.com	O+	19	Healthy
109	Lucy	Brown	7894569876	lucy.brown@example.com	A+	35	Healthy
110	Manu	Pandey	4561298742	manu.pandey@spit.ac.in	AB+	26	Healthy
111	Rakesh	Ramane	4531022236	rakesh.ramane@spit.ac.in	B+	40	Healthy
112	Rohit	Ramane	4531011112	rohit.ramane@spit.ac.in	B+	30	Healthy

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

```
mysql> Rollback to savepoint SP1;
Query OK, 0 rows affected (0.00 sec)

mysql> Select * from Donor;
```

id	firstname	lastname	contact	email	bloodgroup	Age	healthstatus
101	Sujal	Dingankar	7798802841	sujal.dingankar@spit.ac.in	O+	20	Healthy
102	Shreeya	Nemade	7698231082	shreeya.nemade@spit.ac.in	A+	19	Healthy
103	Harsha	Surwase	5612798561	harsha.surwase@spit.ac.in	B+	21	Healthy
104	Avi	Patil	1234598745	avinash.patil@spit.ac.in	AB+	18	Healthy
105	Shruti	Bhuvad	455612345	shruti.bhuvad@spit.ac.in	A+	22	Healthy
106	John	Doe	7894561230	john.doe@example.com	O+	25	Healthy
107	Jane	Smith	7894567890	jane.smith@example.com	O+	30	Healthy
108	Mark	Taylor	7894563456	mark.taylor@example.com	O+	19	Healthy
109	Lucy	Brown	7894569876	lucy.brown@example.com	A+	35	Healthy
110	Manu	Pandey	4561298742	manu.pandey@spit.ac.in	AB+	26	Healthy
111	Rakesh	Ramane	4531022236	rakesh.ramane@spit.ac.in	B+	40	Healthy

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

Conclusion

From this experiment, I learnt different DCL & TCL commands in MySQL & also implemented them.