Лабораторын ажил – 9

User privileges – тай ажиллах

1. User A
   a. Access: all tables
   b. Commands: all
   c. Created by admin

```sql
4  ●  CREATE USER 'user_a'@'localhost' IDENTIFIED BY '123';
5  ●  GRANT ALL PRIVILEGES ON urgoo.* TO 'user_a'@'localhost';
6  ●  FLUSH PRIVILEGES;
7
8
9  ●  SELECT user FROM mysql.user;
10
11
12
13
14
15
16
17
18
```

#	Time	Action	Message	Duration / Fet
26	15:17:10	CREATE USER 'user_a'@'localhost' IDENTIFIED BY '123'	0 row(s) affected	0.109 sec
27	15:17:10	GRANT ALL PRIVILEGES ON urgoo.* TO 'user_a'@'localhost'	0 row(s) affected	0.032 sec
28	15:17:10	FLUSH PRIVILEGES	0 row(s) affected	0.031 sec

```sql
43  ●  SHOW GRANTS FOR 'user_a'@'localhost';
44
```

| Grants for user_a@localhost |
|---|
| GRANT USAGE ON *.* TO `user_a`@`localhost` |
| GRANT ALL PRIVILEGES ON `urgoo`.* TO `user_a`@`localhost` |

2. User B
   a. Access: only some tables
   b. Commands: all
   c. Created by admin and grant privileges

User_b хэрэглэгчийг үүсгэсэн байдал:

```
24 ● CREATE USER 'user_b'@'localhost' IDENTIFIED BY '123';
25 ● GRANT ALL PRIVILEGES ON urgoo.ticket TO 'user_b'@'localhost';
26 ● GRANT ALL PRIVILEGES ON urgoo.orders to 'user_b'@'localhost';
27 ● GRANT GRANT OPTION ON urgoo.* TO 'user_b'@'localhost';
28 ● FLUSH PRIVILEGES;
```

#	Time	Action	Message	Duration / Fetch
10	17:41:17	GRANT ALL PRIVILEGES ON urgoo.orders to 'user_b'@localhost'	0 row(s) affected	0.015 sec
11	17:41:17	GRANT GRANT OPTION ON urgoo.* TO 'user_b'@localhost'	0 row(s) affected	0.016 sec
12	17:41:17	FLUSH PRIVILEGES	0 row(s) affected	0.031 sec

SCHEMAS

- ▼ urgoo
  - ▼ Tables
    - ▶ orders
    - ▶ ticket
  - Views
  - Stored Procedures
  - Functions
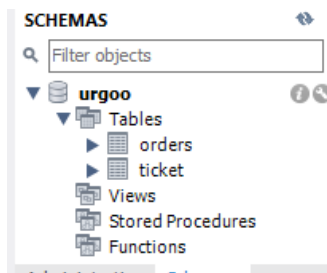
User B хэрэглэгчээс нэвтрэн зөвшөөрөгдөөгүй үйлдэл хийн баримтжуулсан байдал:

```
18 ● select * from movie;
19
20
21
22
23
24
25
26
```

#	Time	Action	Message	Duration / Fetch
8	17:54:22	select * from movie	Error Code: 1142. SELECT command denied to user 'user_b'@'localhost' for table 'movie'	0.000 sec
9	17:54:51	select * from movie	Error Code: 1142. SELECT command denied to user 'user_b'@'localhost' for table 'movie'	0.000 sec
10	17:54:52	select * from movie	Error Code: 1142. SELECT command denied to user 'user_b'@'localhost' for table 'movie'	0.000 sec

3. User C
   a. Access: only some tables
   b. Commands: select, insert, delete
   c. Created by user B

```sql
7 •    CREATE USER 'user_c'@'localhost' IDENTIFIED BY 'password';
8 •    GRANT SELECT, INSERT, DELETE ON urgoo.movie TO 'user_c'@'localhost';
9 •    GRANT SELECT, INSERT, DELETE ON urgoo.theater TO 'user_c'@'localhost';
10 •   FLUSH PRIVILEGES;
```

#	Time	Action	Message	Duration / Fetch
8	17:43:30	GRANT SELECT, INSERT, DELETE ON urgoo.movie TO 'user_c'@'localhost'	0 row(s) affected	0.016 sec
9	17:43:30	GRANT SELECT, INSERT, DELETE ON urgoo.theater TO 'user_c'@'localhost'	0 row(s) affected	0.015 sec
10	17:43:30	FLUSH PRIVILEGES	0 row(s) affected	0.016 sec

```sql
43 •    SHOW GRANTS FOR 'user_c'@'localhost';
44
```

Result Grid | Filter Rows: | Export: | W

Grants for user_c@localhost
GRANT USAGE ON *.* TO `user_c`@`localhost`
GRANT SELECT, INSERT ON `urgoo`.`movie` TO `user_c`@`lo...
GRANT SELECT, INSERT, DELETE ON `urgoo`.`theater` TO `us...

User C хэрэглэгчээс нэвтрэн зөвшөөрөгдөөгүй үйлдэл хийн баримтжуулсан байдал:

```sql
13 •    delete from movie where id = 1;
14 •    select * from movie;
```

#	Time	Action	Message	Duration / Fetch
4	17:58:43	select * from theater	5 row(s) returned	0.000 sec / 0.00
5	17:59:22	select * from movie	3 row(s) returned	0.000 sec / 0.00
6	17:59:27	delete from movie where id = 1	Error Code: 1142. DELETE command denied to user 'user_c'@'localhost' for table 'movie'	0.000 sec

Үүний дараа revoke command ашиглан User C аль нэг хүснэгтэн дэх delete эрхийг хасна уу.

```
13 ●    REVOKE DELETE ON urgoo.movie FROM 'user_c'@'localhost';
```

utput

Action Output   ▼

#	Time	Action	Message	Duration / Fetch
9	17:43:30	GRANT SELECT, INSERT, DELETE ON urgoo.theater TO 'user_c'@'localhost'	0 row(s) affected	0.015 sec
10	17:43:30	FLUSH PRIVILEGES	0 row(s) affected	0.016 sec
11	17:45:12	REVOKE DELETE ON urgoo.movie FROM 'user_c'@'localhost'	0 row(s) affected	0.031 sec