



МУИС-ХШУИС-МКУТ  
ӨГӨГДЛИЙН САНГИЙН СИСТЕМ

9. user privileges

Сонгож авсан систем: кино театр (tables)

-- Table: movies

```
CREATE TABLE movies (  
  movie_id SERIAL PRIMARY KEY,  
  title VARCHAR(100) NOT NULL,  
  release_year INTEGER NOT NULL,  
  genre VARCHAR(50) NOT NULL
```

```
);
```

-- Table: theaters

```
CREATE TABLE theaters (  
  theater_id SERIAL PRIMARY KEY,  
  NAME VARCHAR(100) NOT NULL,  
  location VARCHAR(100) NOT NULL
```

```
);
```

-- Table: showtimes

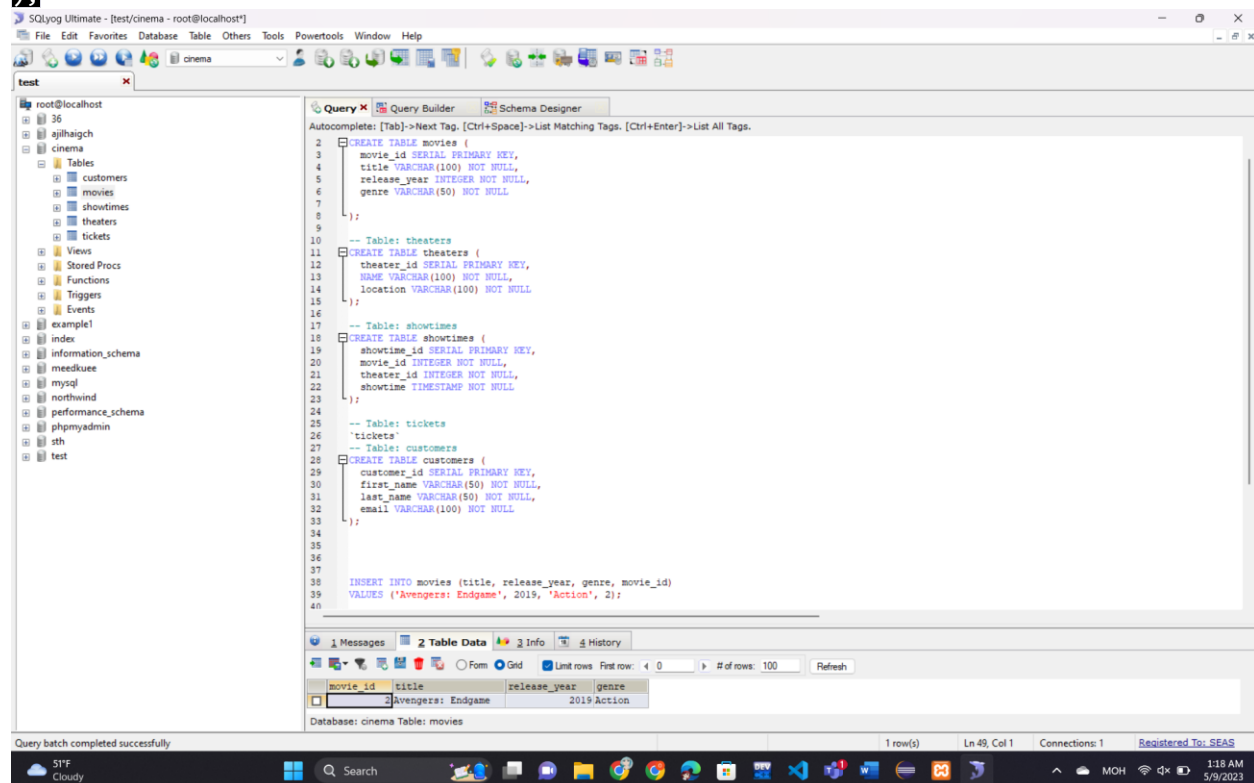
```
CREATE TABLE showtimes (  
  showtime_id SERIAL PRIMARY KEY,  
  movie_id INTEGER NOT NULL,  
  theater_id INTEGER NOT NULL,  
  showtime TIMESTAMP NOT NULL
```

```
);
```

```
CREATE TABLE tickets (
    ticket_id int PRIMARY KEY,
    showtime_id INTEGER NOT NULL,
    seat_number VARCHAR(10) NOT NULL,
    price DECIMAL(8,2) NOT NULL
);
```

```
-- Table: customers
```

```
CREATE TABLE customers (
    customer_id SERIAL PRIMARY KEY,
    first_name VARCHAR(50) NOT NULL,
    last_name VARCHAR(50) NOT NULL,
    email VARCHAR(100) NOT NULL
);
```



Хүснэгтэд утга оноов.

```
INSERT INTO movies (title, release_year, genre, movie_id)
VALUES ('Avengers: Endgame', 2019, 'Action', 2);
```

```
INSERT INTO theaters (theater_id, NAME, location)
```

```
VALUES ('1', 'urguu', 'shangrila');
```

```
INSERT INTO showtimes (showtime_id, movie_id, theater_id, showtime )
```

```
VALUES (3, 2, 1, '2038-01-19 03:14:07');
```

User privilege үндсэн кодны хэсэг

```
// A,B,C 3 хэрэглэгч үүсгэв
```

```
CREATE USER 'A'@'localhost' IDENTIFIED BY 'passwordA';
```

```
CREATE USER 'B'@'localhost' IDENTIFIED BY 'passwordB';
```

```
CREATE USER 'C'@'localhost' IDENTIFIED BY 'passwordC';
```

```
// А хэрэглэгч бүх хүснэгтэд бүрэн хандах эрхийг олгов.
```

```
GRANT ALL PRIVILEGES ON cinema.* TO 'A'@'localhost';
```

```
// В хэрэглэгч movies болон theaters хүснэгтэд бүрэн хандах эрхийг олгов.
```

```
GRANT ALL PRIVILEGES ON cinema.movies TO 'B'@'localhost';
```

```
GRANT ALL PRIVILEGES ON cinema.theaters TO 'B'@'localhost';
```

```
// С хэрэглэгч tickets хүснэгтэд SELECT, INSERT, DELETE үйлдлээр хандах эрхийг олгов.
```

```
GRANT SELECT, INSERT, DELETE ON cinema.tickets TO 'C'@'localhost';
```

Шалгав.

87

88 • SHOW GRANTS FOR 'A'@'localhost';

89 • USE cinema;

90 • SELECT \* ;

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Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Grants for A@localhost

GRANT USAGE ON \*.\* TO 'A'@'localhost'

GRANT ALL PRIVILEGES ON `cinema`.\* TO 'A'...

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94 • `SHOW GRANTS FOR 'B'@'localhost';`

95 • `USE cinema;`

96 • `SELECT * ;`

97

98

Result Grid | Filter Rows: | Export: | Wrap Cell

|   | Grants for B@localhost                        |
|---|---|
| ▶ | GRANT USAGE ON *,* TO `B`@`localhost`         |
|   | GRANT ALL PRIVILEGES ON `cinema`.`movies`...  |
|   | GRANT ALL PRIVILEGES ON `cinema`.`theater`... |

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98

99 • `SHOW GRANTS FOR 'C'@'localhost';`

100 • `USE cinema;`

101 • `SELECT * ;`

Result Grid | Filter Rows: | Export: | Wr

|   | Grants for C@localhost                       |
|---|--|
| ▶ | GRANT USAGE ON *,* TO `C`@`localhost`        |
|   | GRANT SELECT, INSERT, DELETE ON `cinema`.... |

REVOKE ALL PRIVILEGES ON cinema.tickets FROM 'C'@'localhost';