

MySQL Users and Privileges

(LAB Lecture)



Department of Information Technology
Database Systems II (IT216)
Spring 2024-2025
Week 13 – May 04, 2025
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- Users in MySQL
- Syntax of Creating a USER in MySQL
- Privileges
 - Granting Privileges to Users
 - Revoking Privileges from Users

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Let's Create a Database and a Table

- Create **University** database, and activate it.
- Create **Student** table with the following schema: (DB and AI columns contain each student's marks in database and AI courses.)

student (ID, stuName, DB, AI)

<u>ID</u>	stuName	DB	AI
1	Amir	80	65
2	Saya	55	50
3	Mina	60	75

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Let's Create a Database and a Table

```
create database university;
use university;

create table student
(ID int auto_increment,
stuName varchar(100),
DB int,
AI int,
primary key (ID));

insert into student(stuName, DB, AI) values ('Amir',80,65),
                                             ('Saya',55,50),
                                             ('Mina',60,75);
```

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Create a User and Grant the User Privileges

- Create a user named **'teacher1'**, with password **'edi1234tor'**.
- Give the **'teacher1'** **SELECT**, **UPDATE** and **INSERT** privileges on **student** table.

student Table

<u>ID</u>	stuName	DB	AI
1	Amir	80	65
2	Saya	55	50
3	Mina	60	75

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Create a User and Grant the User Privileges

```
create user 'teacher1'@'localhost' identified by 'edi1234tor';  
  
grant SELECT, UPDATE, INSERT on university.student to 'teacher1'@'localhost';
```

student Table

<u>ID</u>	stuName	DB	AI
1	Amir	80	65
2	Saya	55	50
3	Mina	60	75

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Revoke Privileges from a USER

- Now, **teacher1** user can execute any of (**SELECT**, **UPDATE** and **INSERT**) statements on **student** table.
- Let's take back (**UPDATE**) privilege on **student** table from **teacher1** user.



```
create user 'teacher1'@'localhost' identified by 'edi1234tor';  
  
grant SELECT, UPDATE, INSERT on university.student to 'teacher1'@'localhost';  
  
revoke UPDATE on university.student from 'teacher1'@'localhost';
```

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Lab Work!

- Create a user named '**HoD**', with password '**admin1234**'.
- Give the '**HoD**' user all permissions on all tables in **university** database.
- Then, take back **DELETE** and **UPDATE** privileges on all tables in **university** database from **HoD** user.

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Lab Work!

```
create user 'HoD'@'localhost' identified by 'admin1234';  
  
grant all on university.* to 'HoD'@'localhost';  
  
revoke DELETE, UPDATE on university.* from 'HoD'@'localhost';
```