

The background is a dark teal gradient with an abstract digital aesthetic. It features several glowing, semi-transparent cubes and rectangular frames in shades of blue and cyan. These shapes are interconnected by thin, glowing lines and small dots, suggesting a network or data flow. There are also some larger, out-of-focus circular bokeh lights in various colors (red, green, blue) scattered across the scene.

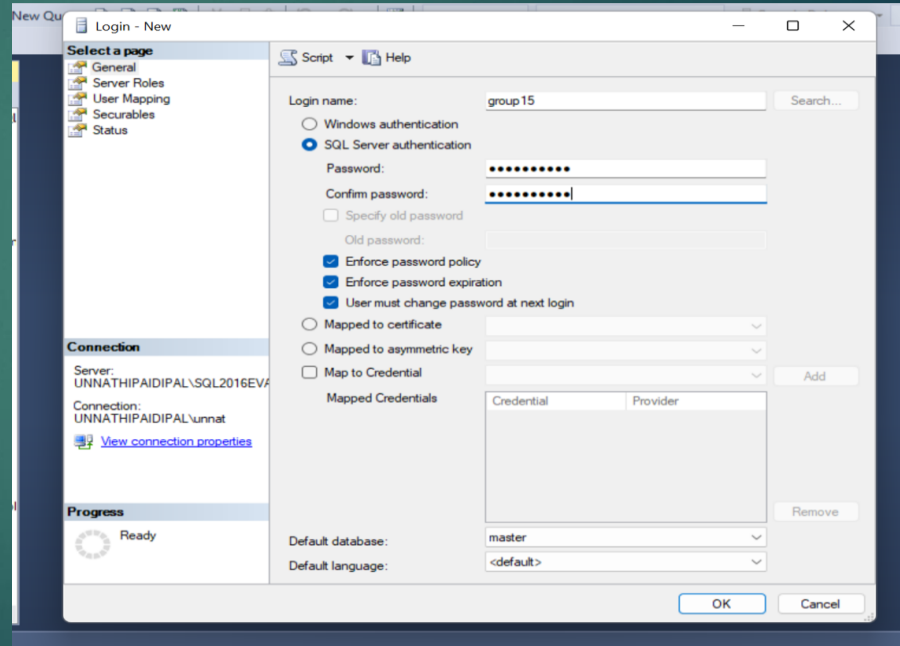
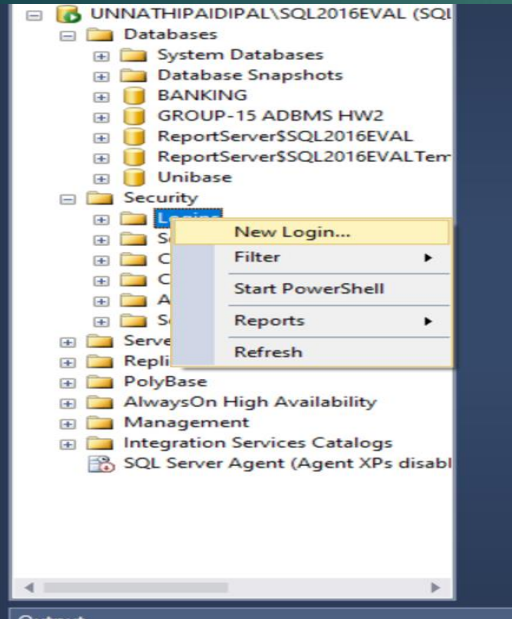
Database Design of University System

Create a Server Login Authentication

- ▶ When connected to the server, right-click 'Login' instance, then select 'New Login'
 - ▶ The Login pop-up page appears, then select 'SQL Server authentication'
 - ▶ Create password for this authentication login, which allows different person access to our group's SQL server with the login credentials.
- ▶ Demonstrations are shown below



Create new Login

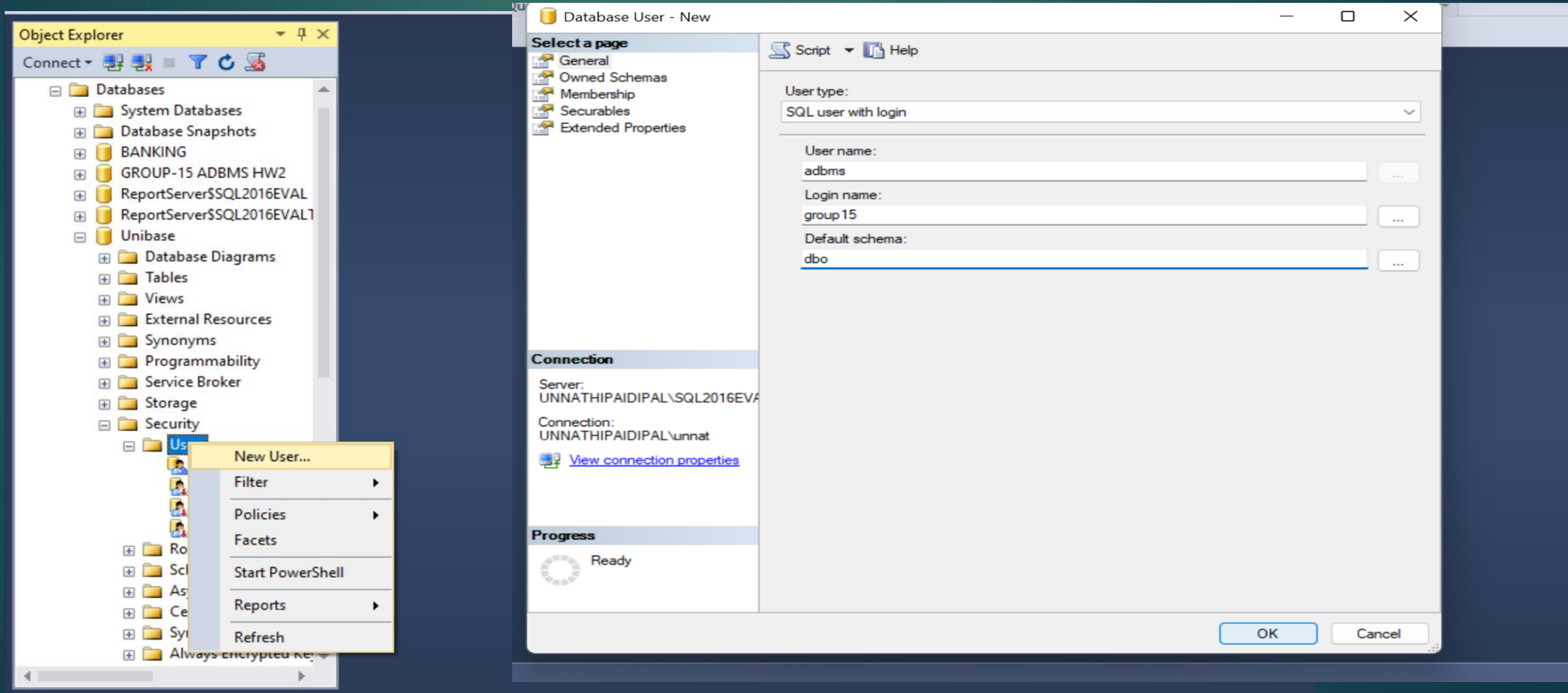



Create user access to our database

- ▶ When expanding the database 'Unibase', under 'security' instance, right-click 'Users', then choose 'New User'
- ▶ A pop-up named 'Database User - New' appears, where we can create Username.
- ▶ Select appropriate username and default schema, where 'dbo' will grant full access.
- ▶ Demonstrations are shown below



Create new database user





Give user permission

- ▶ Refresh 'Users' and expand that instance, a new username recently created appear
 - ▶ Right-click that username, select 'Properties', a database user page pop up, select 'securables'
 - ▶ The 'securables' allows the user to search where, the user should select 'Specific objects' as objects that he/she wishes to add.
 - ▶ The specific objects should only include database, tables, and views object types that are selected by the user.
- ▶ Demonstrations are shown below

Object Explorer

Connect

- Databases
 - System Databases
 - Database Snapshots
 - BANKING
 - GROUP-15 ADBMS HW2
 - ReportServer\$SQL2016EVAL
 - ReportServer\$SQL2016EVAL1
 - Unibase
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
- Users
 - dbo
 - gues
 - INFO
 - sys
 - adbr
- Roles
- Schemas
- Asymme
- Certifica
- Symmet

Output

Ready

- New User...
- Script User as
- Policies
- Facets
- Start PowerShell
- Reports
- Rename
- Delete
- Refresh
- Properties

Database User - adbms

Select a page

- General
- Owned Schemas
- Membership
- Securables
- Extended Properties

Script Help

User name: adbms

Securables:

| Schema | Name | Type |
|--------|------|------|
|--------|------|------|

Add Objects

What objects do you wish to add?

- ☒ Specific objects...
- ☐ All objects of the types...
- ☐ All objects belonging to the schema:

Schema name: db_accessadmin

OK Cancel Help

User name: adbms

Securables:

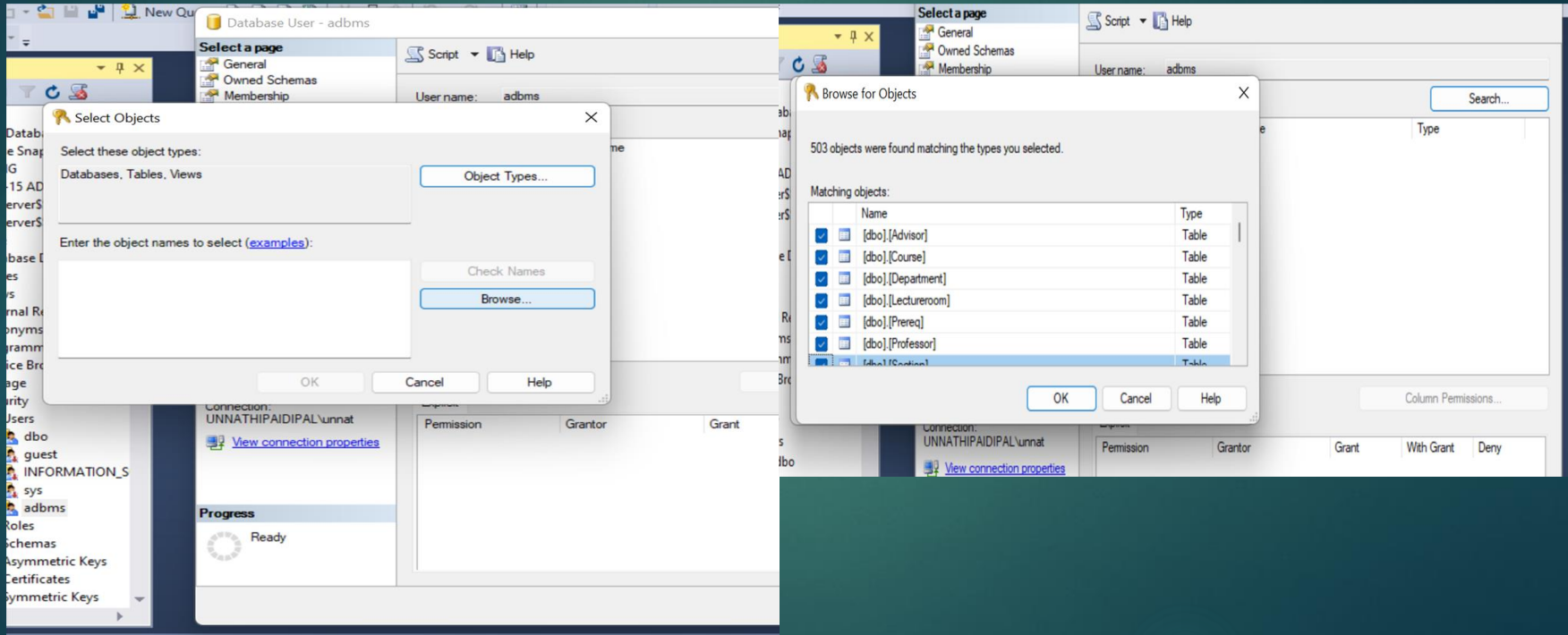
| Schema | Name | Type |
|--------|------|------|
|--------|------|------|

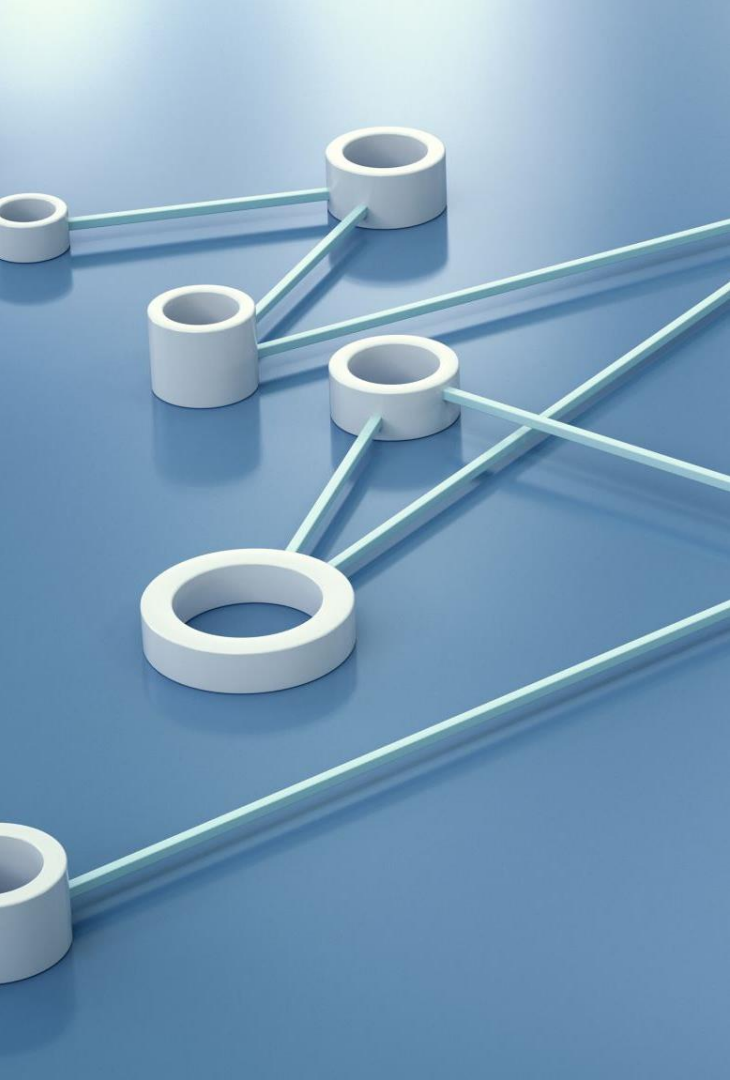
Connection

Server: UNNATHIPAIDIPAL\SQL2016EVA

Permissions: Column Permissions...

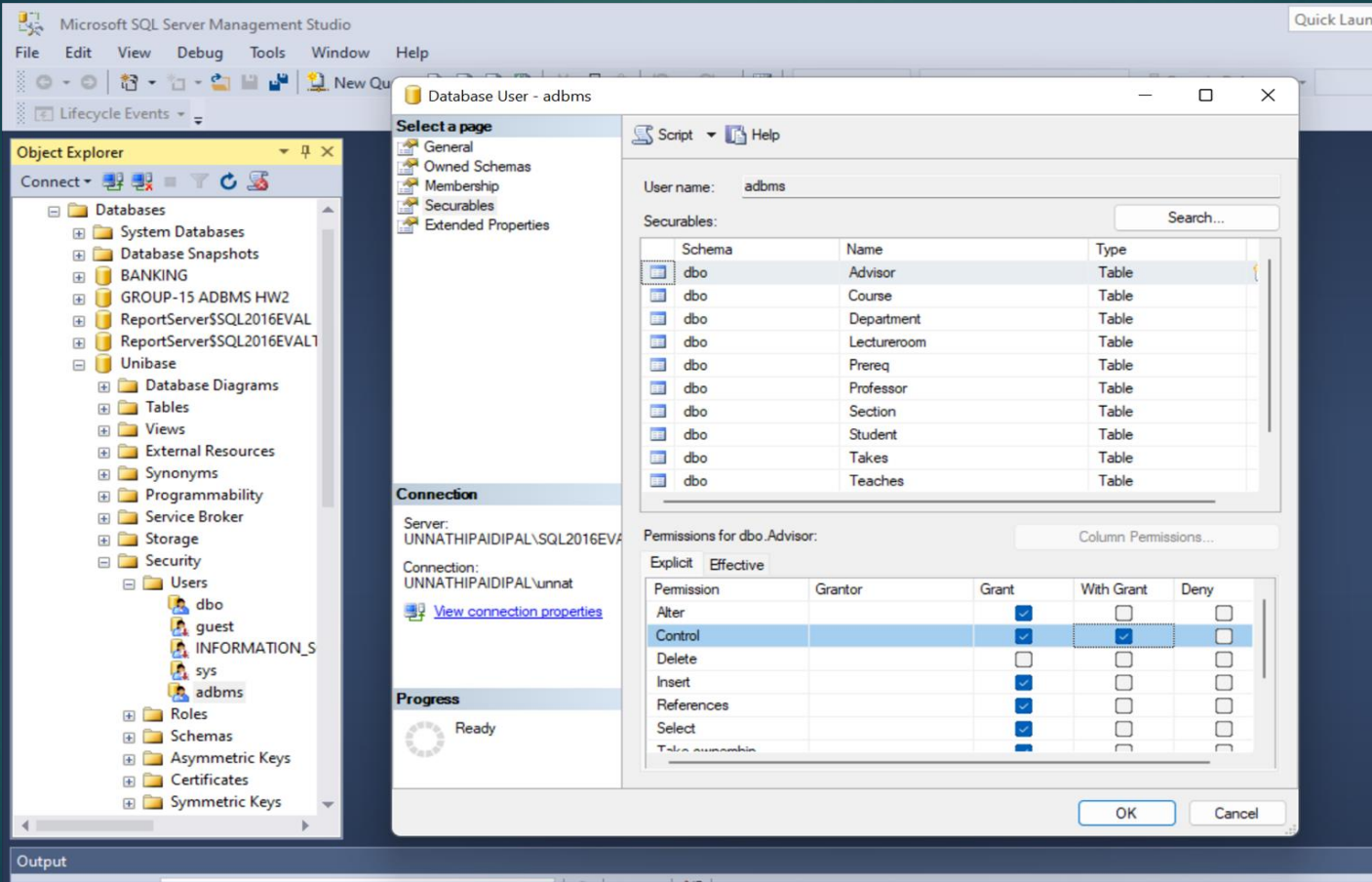
Database User - Permissions





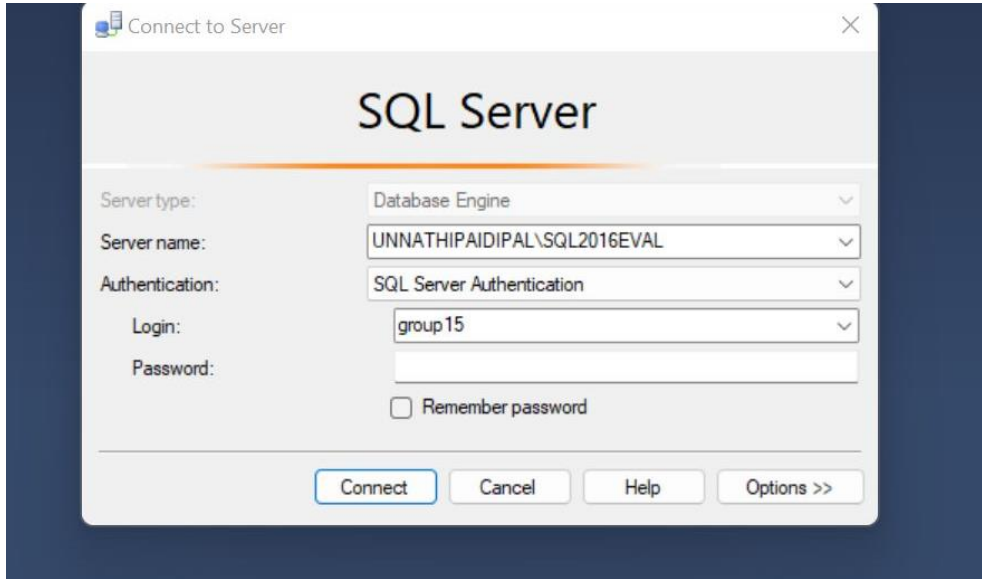
Give User Permission (Continued)

- ▶ Under Permission table, we can grant permission to users for access to any tables by checking each box with respect to the SQL Command keywords. This means users can be granted access or denied access to do some specific tasks related to our database tables.



How files are shared among team members?

- ▶ Each team member has their own local server name
- ▶ However, individuals can access to our database with the granted SQL Server authentication credentials where users can connect with created login name and password.
- ▶ Login Credentials:
 - ▶ Login name: group15
 - ▶ Password: Major#1997



Connect to
SQL Server
from team
member's
login screen

Run query

- ▶ Once connected with the granted permission, user can access database file and queries
- ▶ The description of the all SQL queries are shown in the submitted pdf file including description of each problem, SQL query code, sample result of screenshots.

```
-- Query 16: find courses that require Prerequisites
select course.course_id, prereq.prereq_id, Course.title from prereq, course
where prereq.course_id = course.course_id;
```

| course_id | prereq_id | title |
|-----------|-----------|--------------------------------|
| 114 | 990 | ARRahman Playlist |
| 156 | 708 | Nairobi study |
| 186 | 288 | Procreate Training |
| 288 | 343 | Oil Painting |
| 335 | 114 | Ilayaraja Playlist |
| 392 | 708 | How to smash Patriarchy |
| 444 | 708 | Creating Matriarchal Societies |
| 536 | 217 | Introduction to Compilers |
| 682 | 895 | Bhaag Mikha Bhaag |
| 729 | 573 | Refrigeration |
| 747 | 217 | Data Structures |

Query executed successfully. | UNNATHIPAIDIPAL\SQL2016EVAL... | UNNATHIPAIDIPAL\unnat ... | Unibase | 00:00:00 | 17 rows

Thank You