

IT4090 Cloud Computing 4th Year, 2nd Semester

Azure Lab 5

Create a single database - Azure SQL Database

Submitted to
Sri Lanka Institute of Information Technology

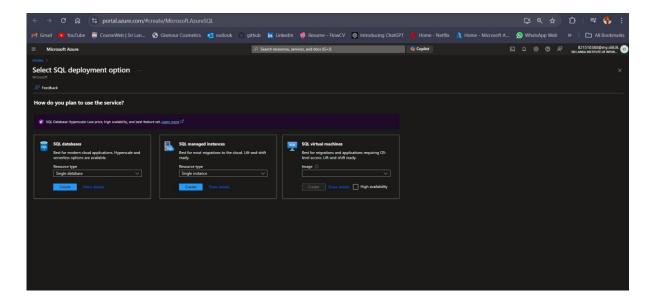
IT21510380

In partial fulfillment of the requirements for the Bachelor of Science Special Honors Degree in Information Technology

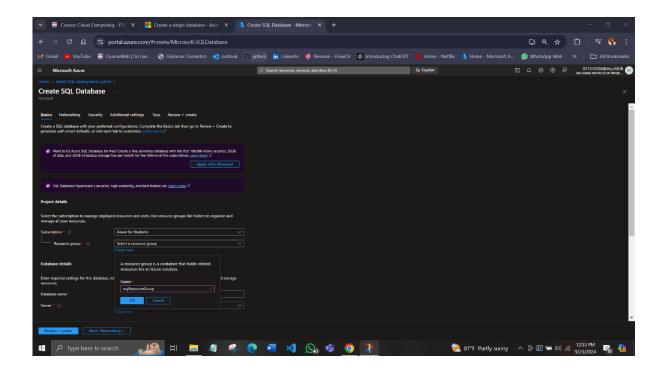
September/26/2024

Create a single database

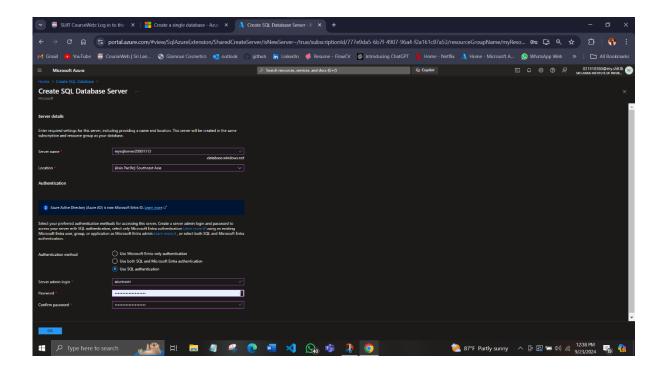
- 1. Browse to the Select **SQL Deployment option** page.
- 2. Under SQL databases, leave the Resource type set to Single database, and select Create.



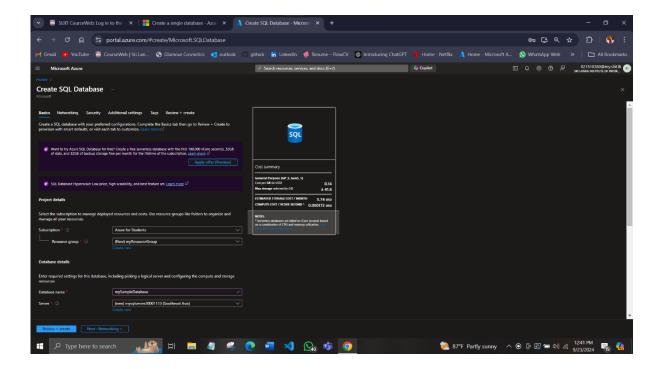
- 3. On the **Basics** tab of the **Create SQL Database** form, under **Project details**, select the desired Azure **Subscription**.
- 4. For **Resource group**, select **Create new**, enter *myResourceGroup*, and select **OK**.



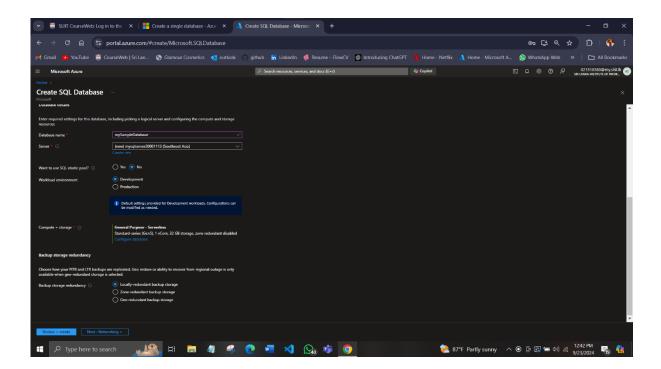
- 5. For the **Database name**, enter *mySampleDatabase*.
- 6. For Server, select Create New, and fill out the New server.
 - Server name: Enter *mysqlserver*
 - Location: Select a location from the dropdown list.
 - Authentication method: Select Use SQL authentication.
 - Server admin login: Enter azureuser.
 - Password: Enter a password that meets requirements, and enter it again in the Confirm password field.
- 7. Select OK.

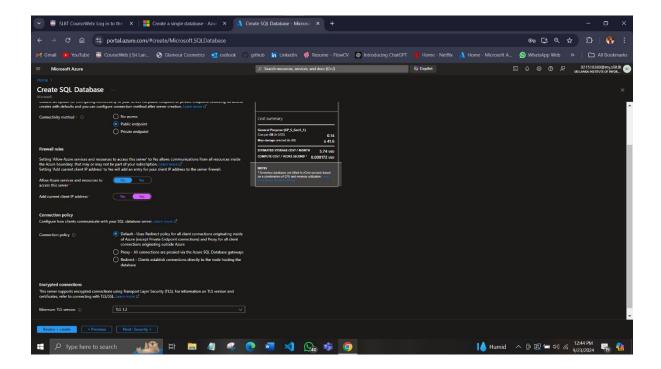


- 8. Leave Want to use SQL elastic pool set to No.
- 9. For Workload environment, specify Development for this exercise.
- 10. Under Compute + storage, select Configure database.
- 11. This quickstart uses a serverless database, so leave Service tier set to General Purpose (Most budget-friendly, serverless compute) and set Compute tier to Serverless. Select Apply.
- 12. Under **Backup storage redundancy**, choose a redundancy option for the storage account where your backups will be saved. To learn more, see <u>backup storage redundancy</u>.
- 13. Select **Next: Networking** at the bottom of the page.

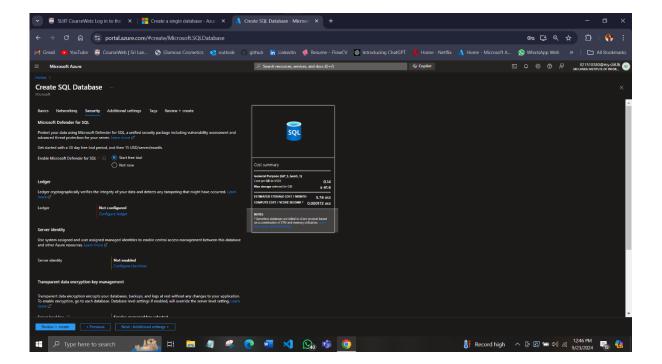


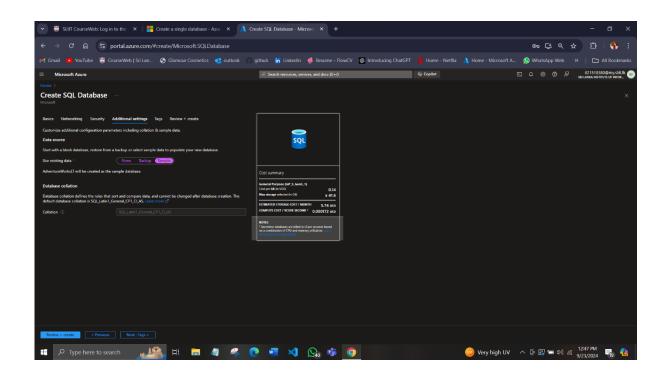
- 14. On the **Networking** tab, for the **Connectivity method**, select the **Public endpoint**.
- 15. For Firewall rules, set Add current client IP address to Yes. Leave Allow Azure services and resources to access this server set to No.
- 16. Under Connection policy, choose the **Default** connection policy, and leave the **Minimum TLS version** at the default of TLS 1.2.

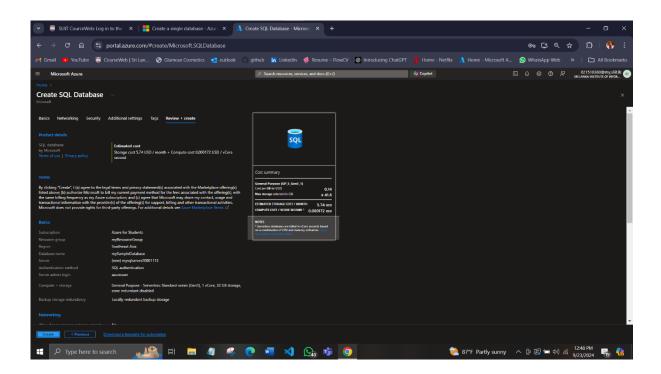


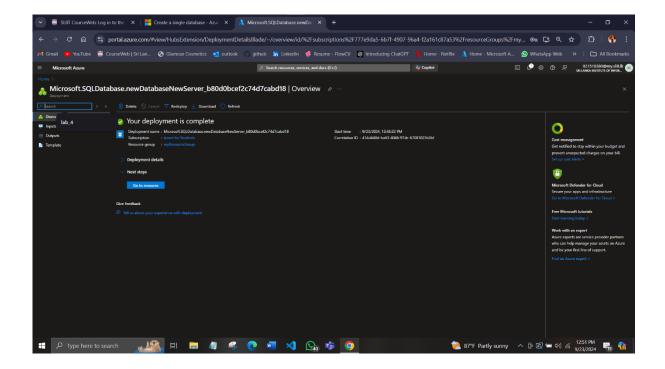


- 17. Select **Next: Security** at the bottom of the page.
- 18. On the **Security** page, Select **Next: Additional settings** at the bottom of the page.
- 19. On the **Additional settings** tab, in the **Data source** section, for **Use existing data**, select **Sample**.
- 20. Select **Review** + **create** at the bottom of the page:
- 21. On the **Review** + **create** page, after reviewing, select **Create**.



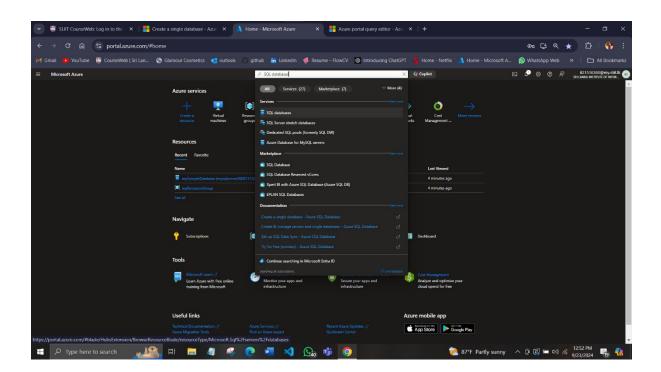


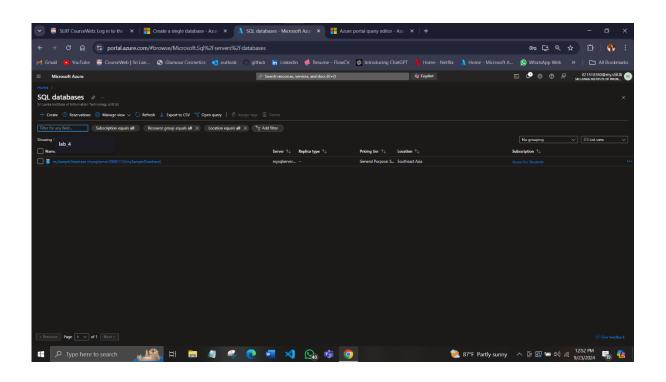


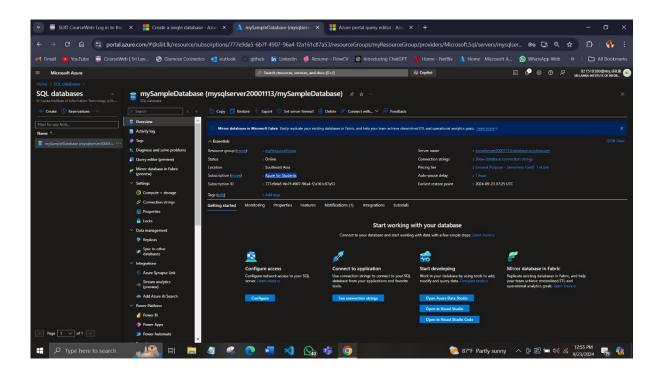


Query the database

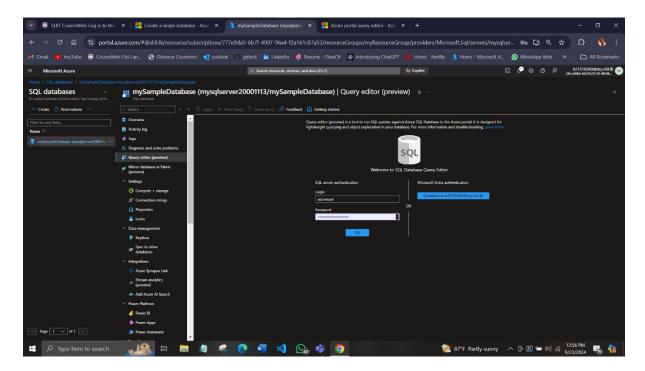
In the portal, search for and select **SQL databases**, and then select your database from the list.



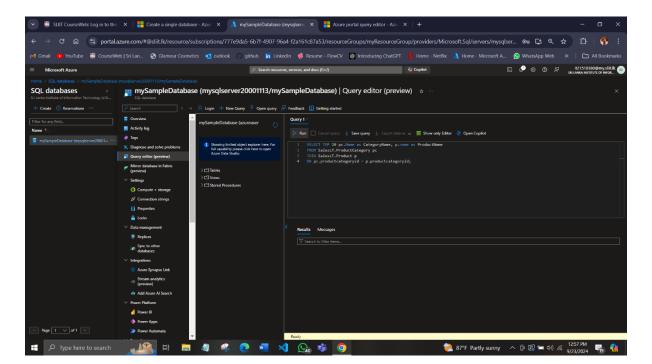




2. On the page for your database, select **Query editor (preview)** in the left menu.



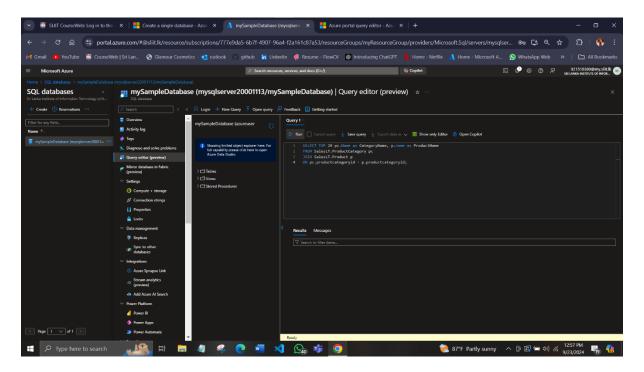
3. Enter your SQL authentication server admin login information or use Microsoft Entra authentication.

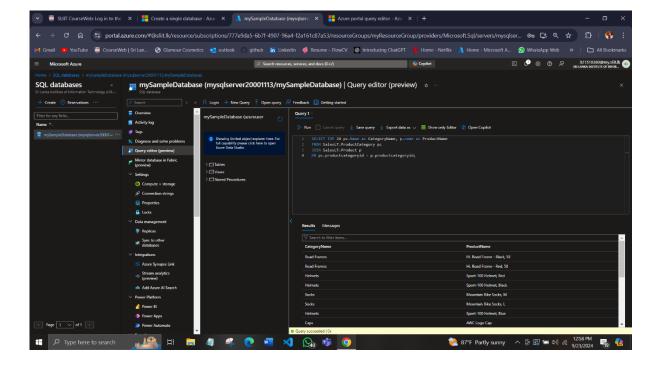


4. Enter the following query in the **Query editor** pane.

SELECT TOP 20 pc.Name as CategoryName, p.name as ProductName
FROM SalesLT.ProductCategory pc
JOIN SalesLT.Product p
ON pc.productcategoryid = p.productcategoryid;

- 5. Select **Run**, and then review the query results in the **Results** pane.
- 6. Close the **Query editor** page, and select **OK** when prompted to discard your unsaved edits.





Clean up resources

