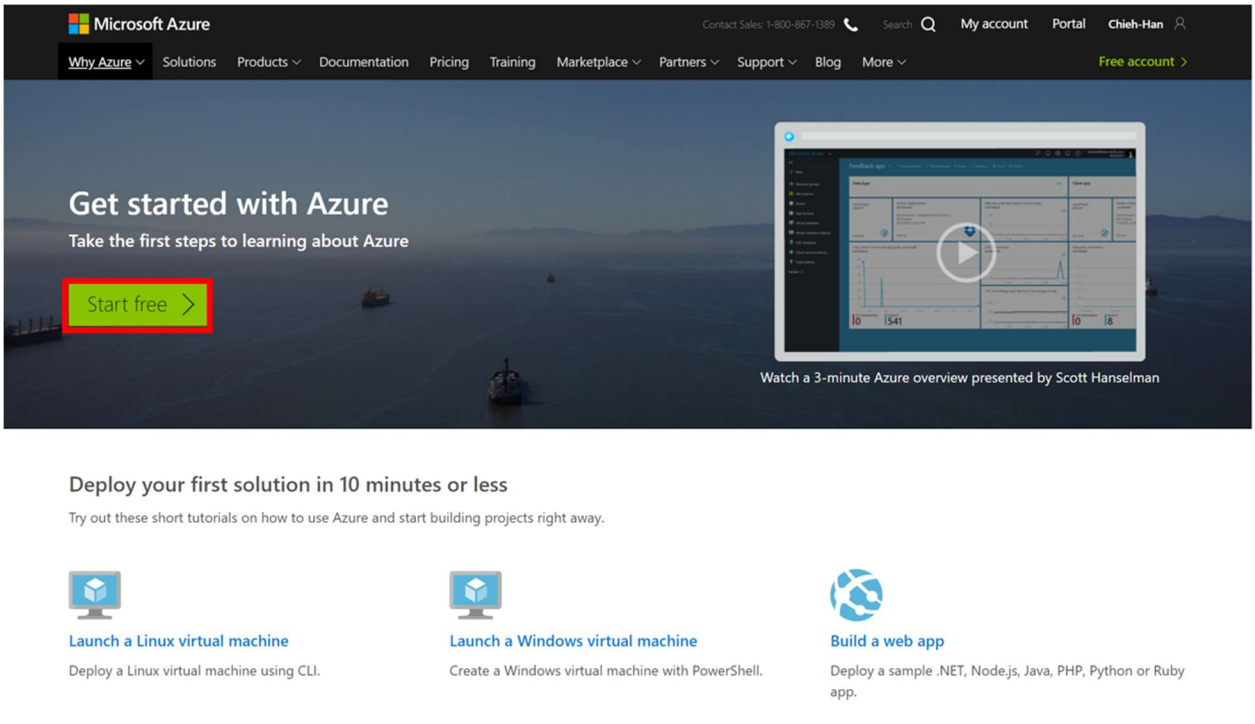
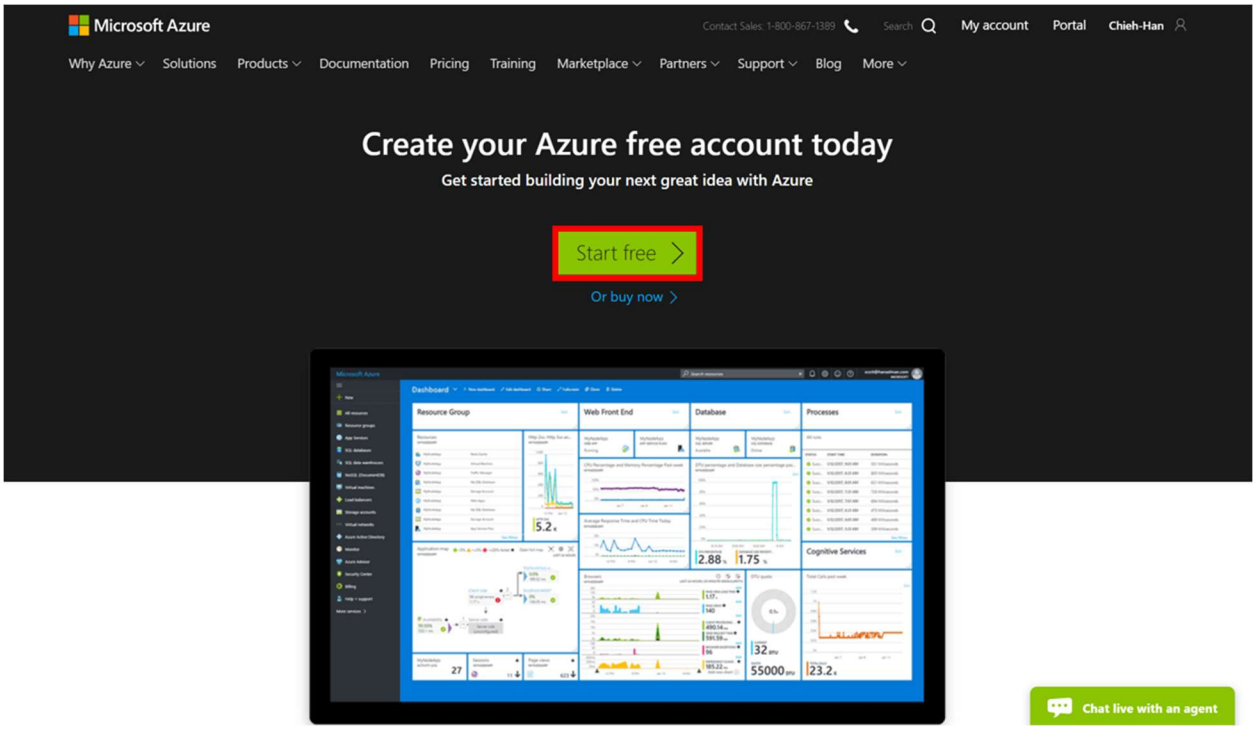
0. Download the instructions (.pdf), input data (.tsv), and code (.usql) for the Labs.
    a. DAT278x_Lab-Setup-Guide.pdf
    b. DAT278x_Lab1_Graph.pdf
    c. DAT278x_Lab2_KnowledgeGraph.pdf
    d. Paper_authors.tsv
    e. Paper_venue.tsv
    f. DAT278x_Lab1_Graph.usql
    g. DAT278x_Lab2_KnowledgeGraph.usql

1. Create a free Azure Account
   https://azure.microsoft.com/en-us/get-started

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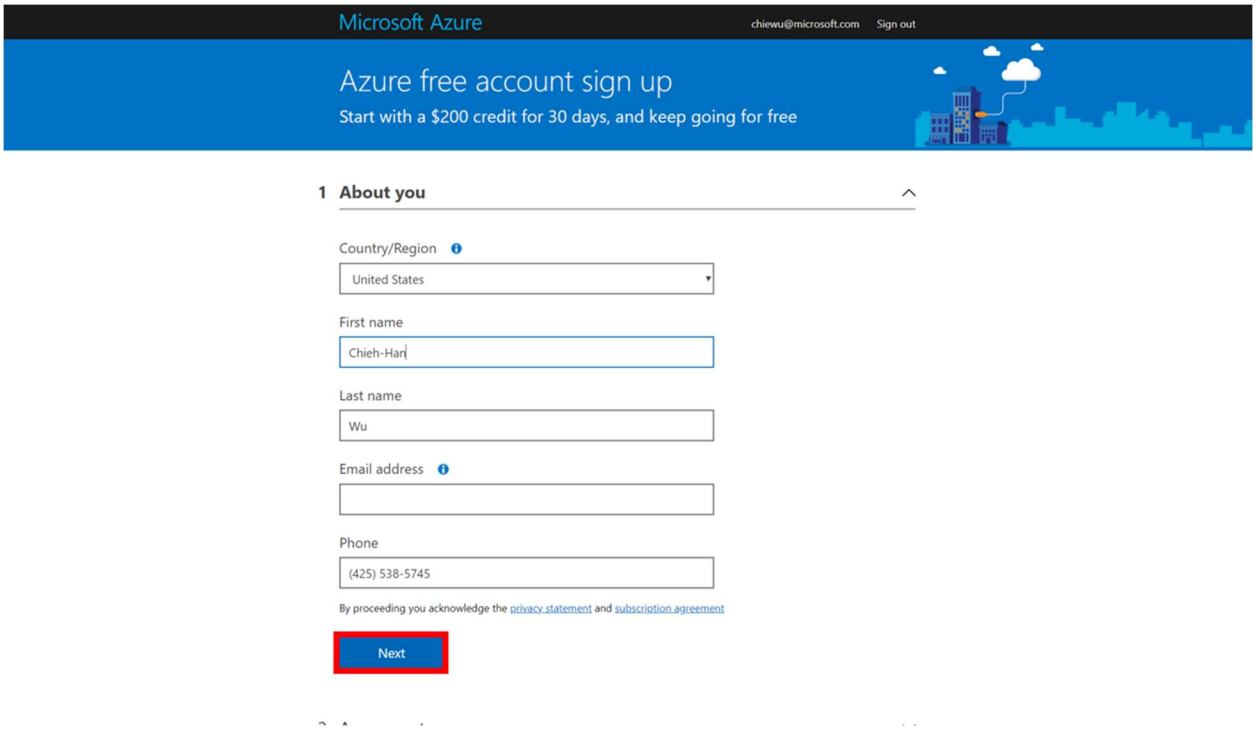
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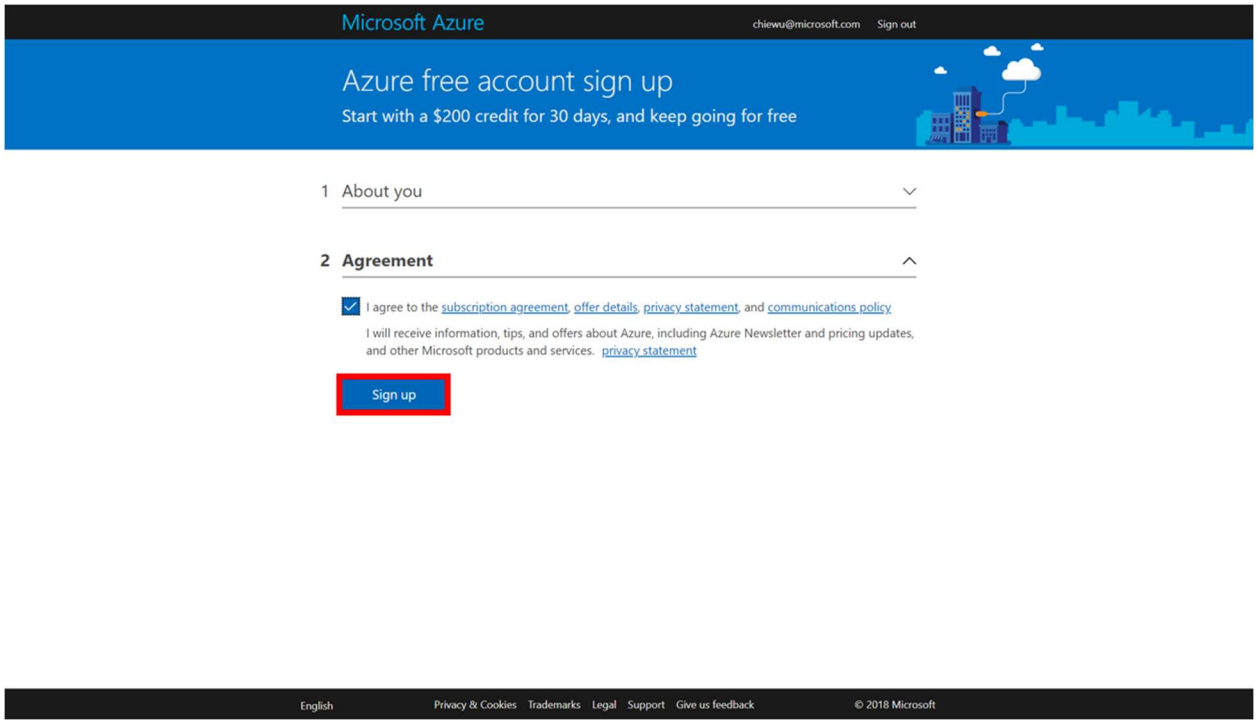
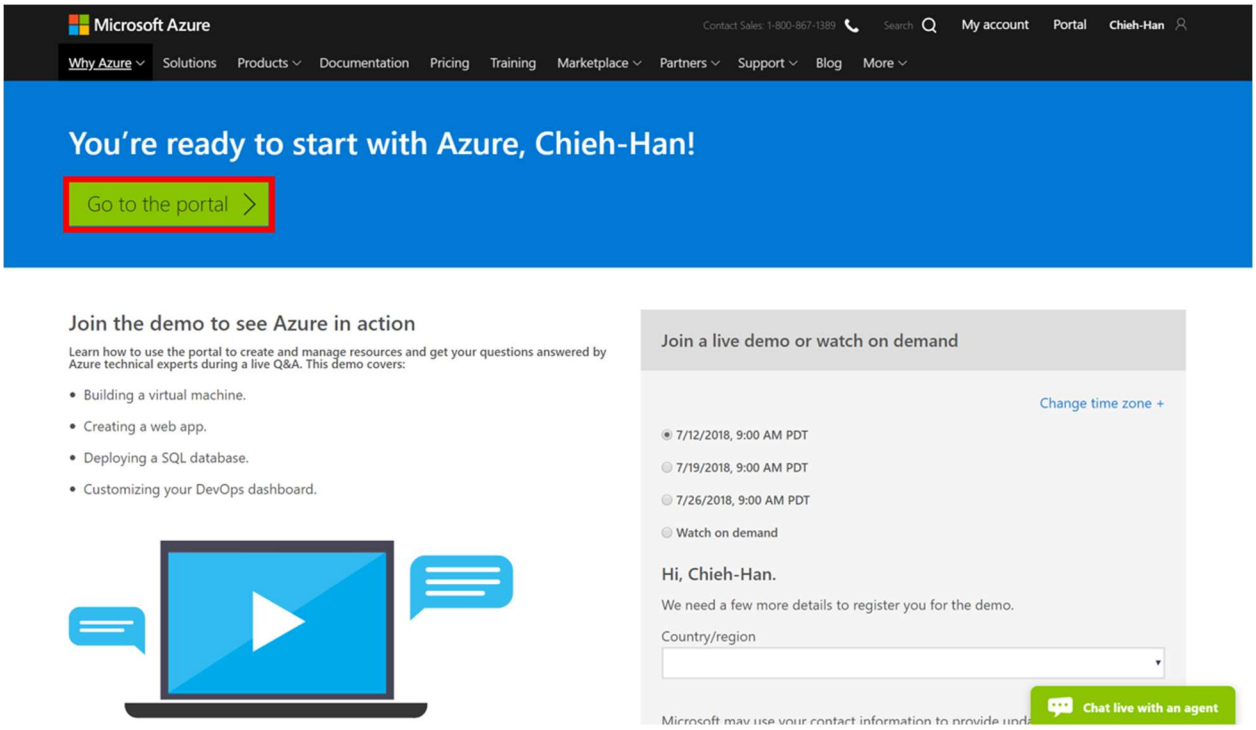
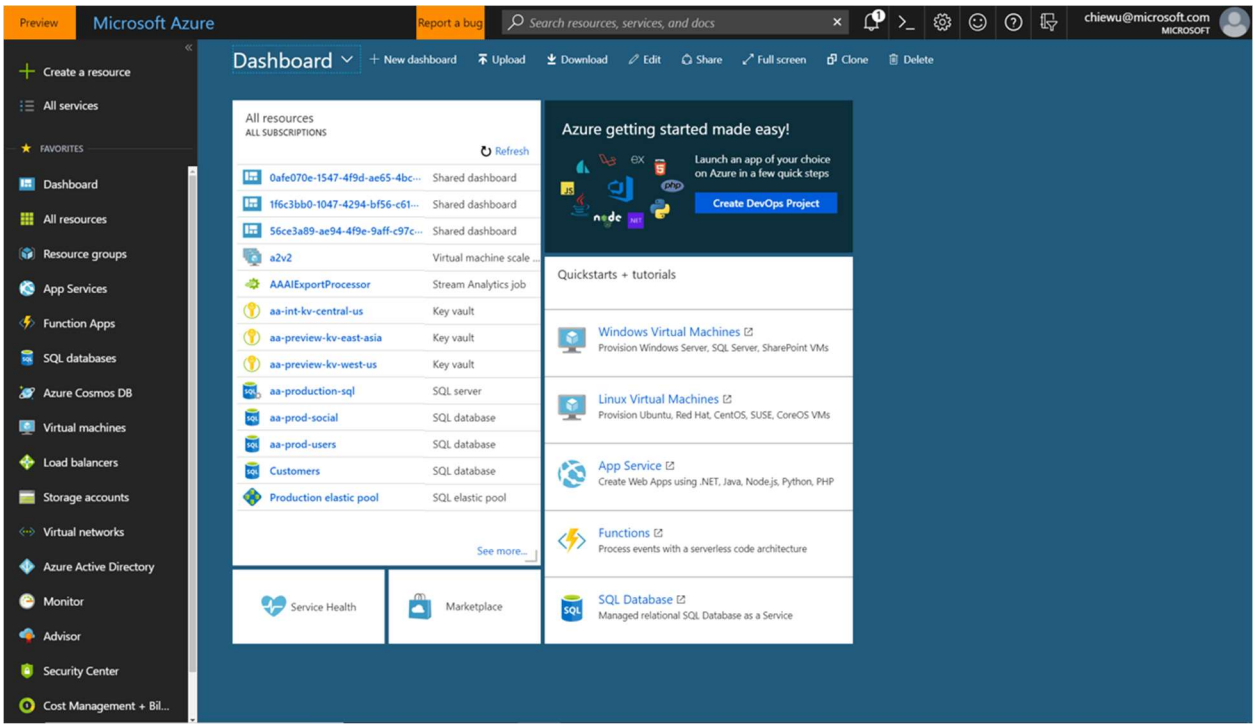
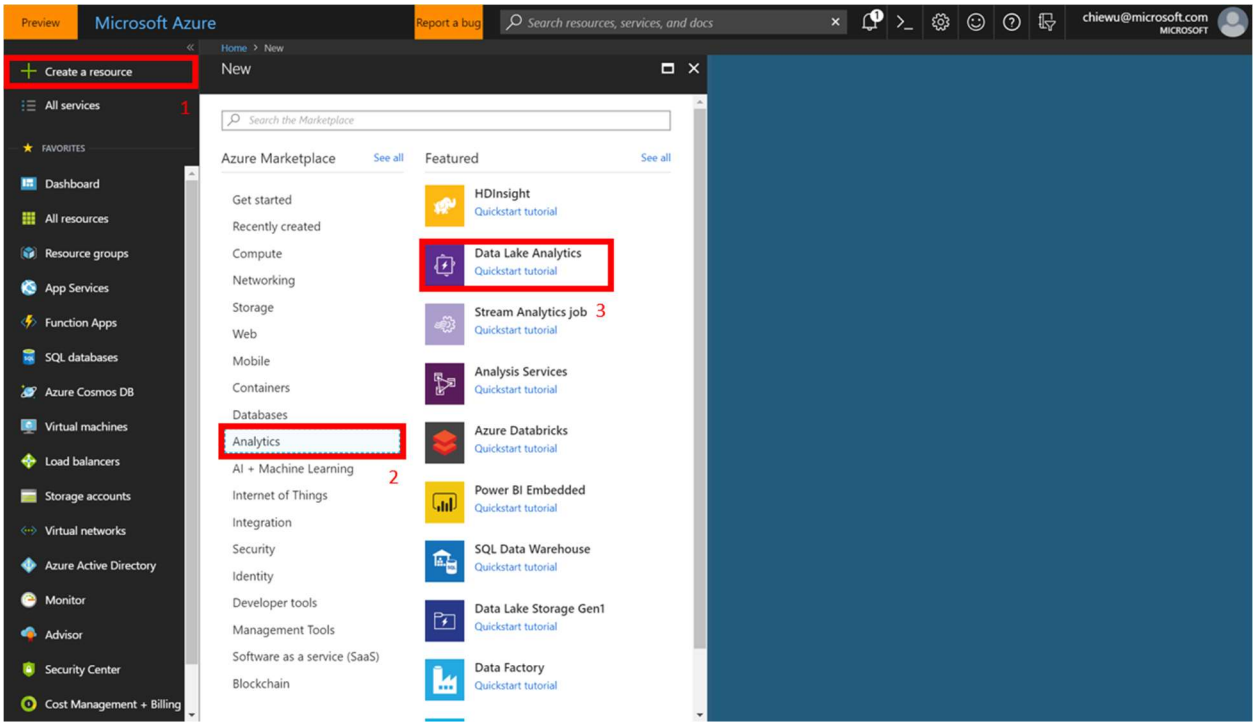


2. Create a Data Lake Analytics and a Data Lake Store Account
    a. Sign on to the Azure portal.



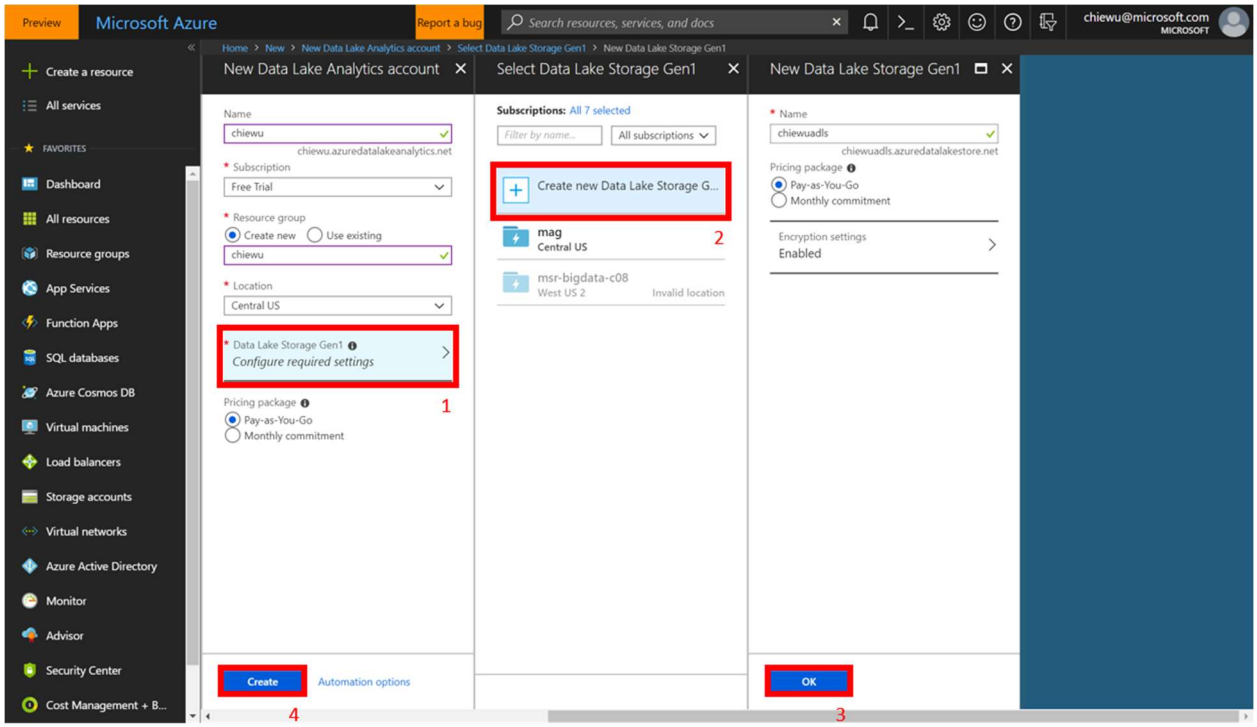


b. Click **Create a resource** > **Analytics** > **Data Lake Analytics**.

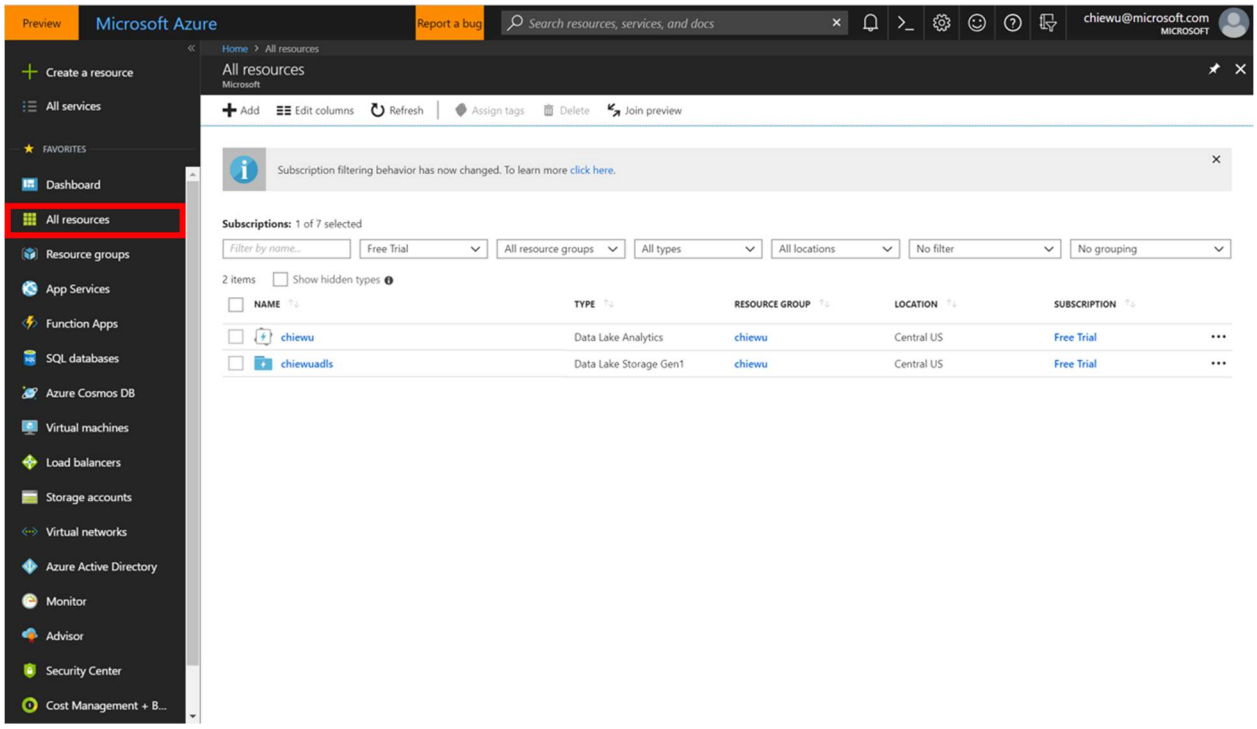


c. Select values for the following items:

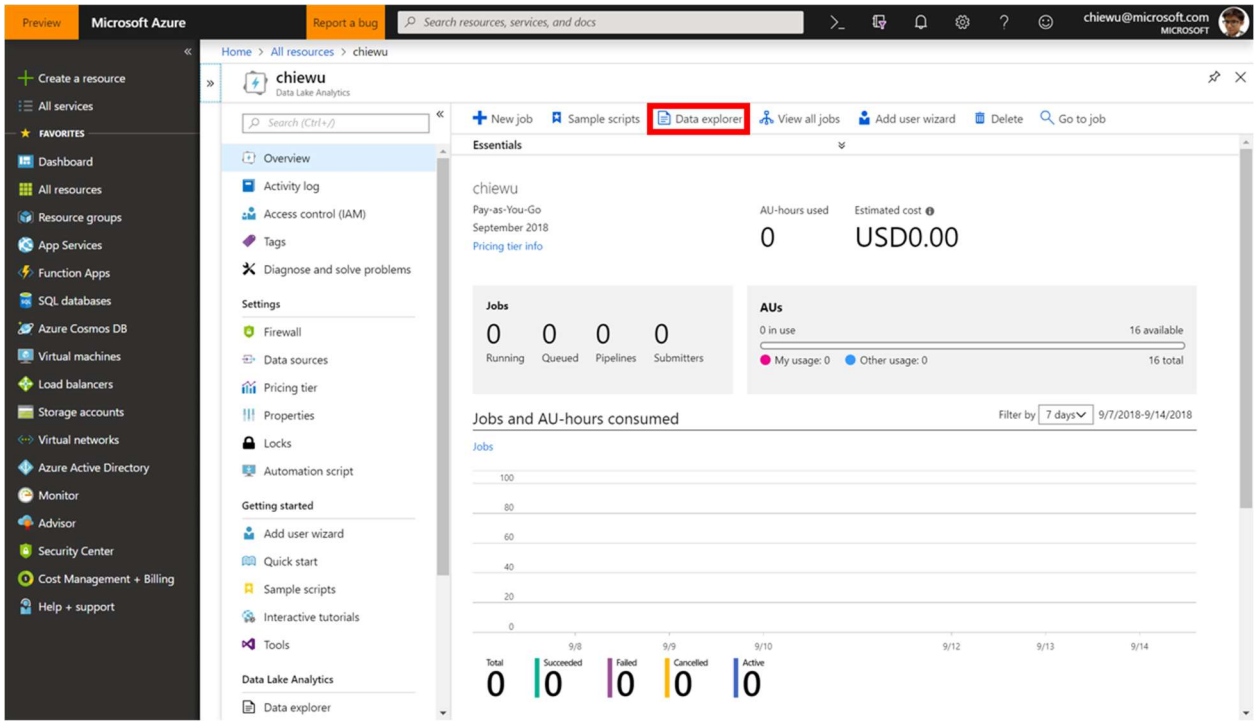
- Name: Name your Data Lake Analytics account (Only lower case letters and numbers allowed).
- Subscription: Choose the Azure subscription used for the Analytics account.
- Resource Group: Select an existing Azure Resource Group or create a new one.
- Location: Select an Azure data center for the Data Lake Analytics account.
- Data Lake Store: Follow the instruction to create a new Data Lake Store account, or select an existing one.
- Optionally, select a pricing tier for your Data Lake Analytics account.



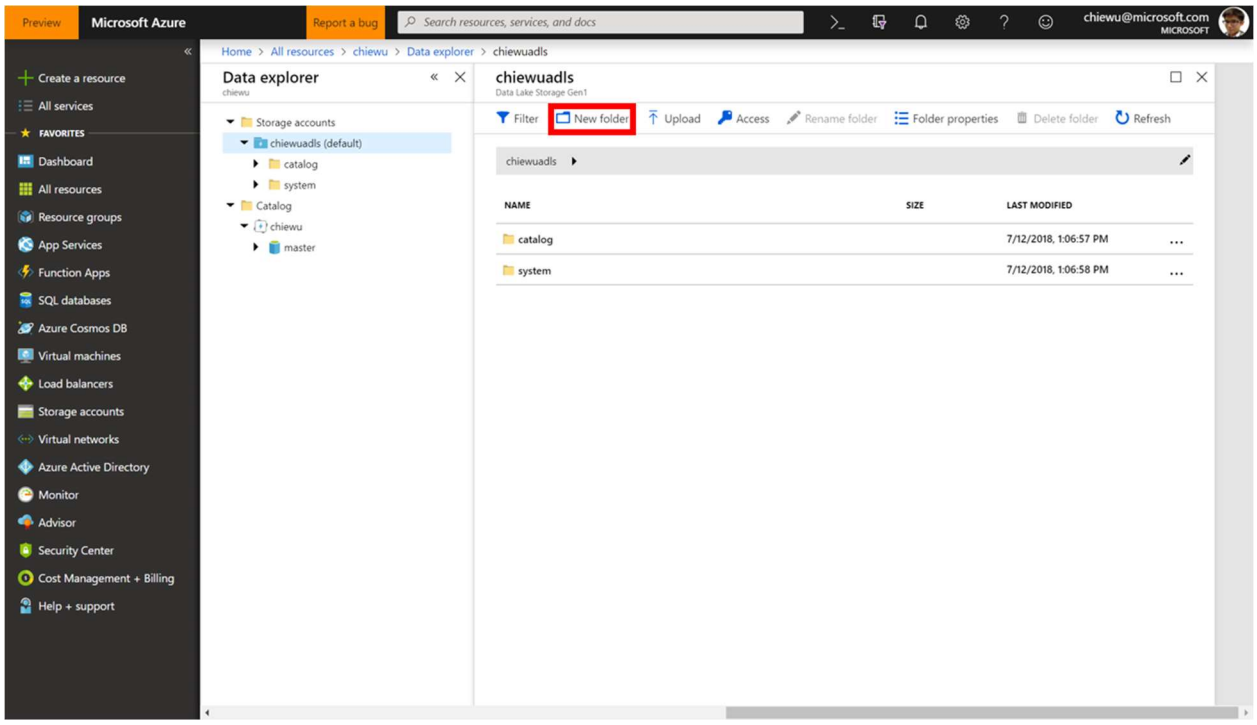
d. View your Data Lake Analytics and Data Lake Store Account in **All resources**.



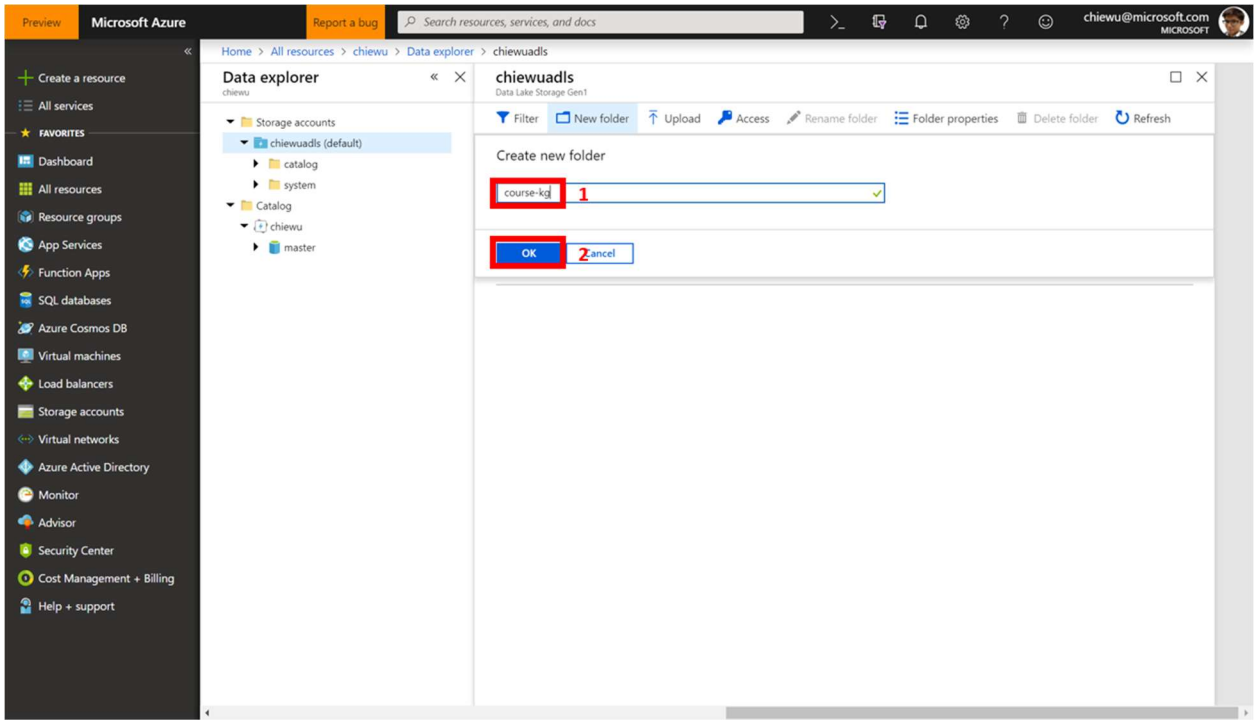
3. Upload the Lab data to Azure Data Lake Store account
    a. Go to Azure Data Lake Analytics account and click **Data explorer**.



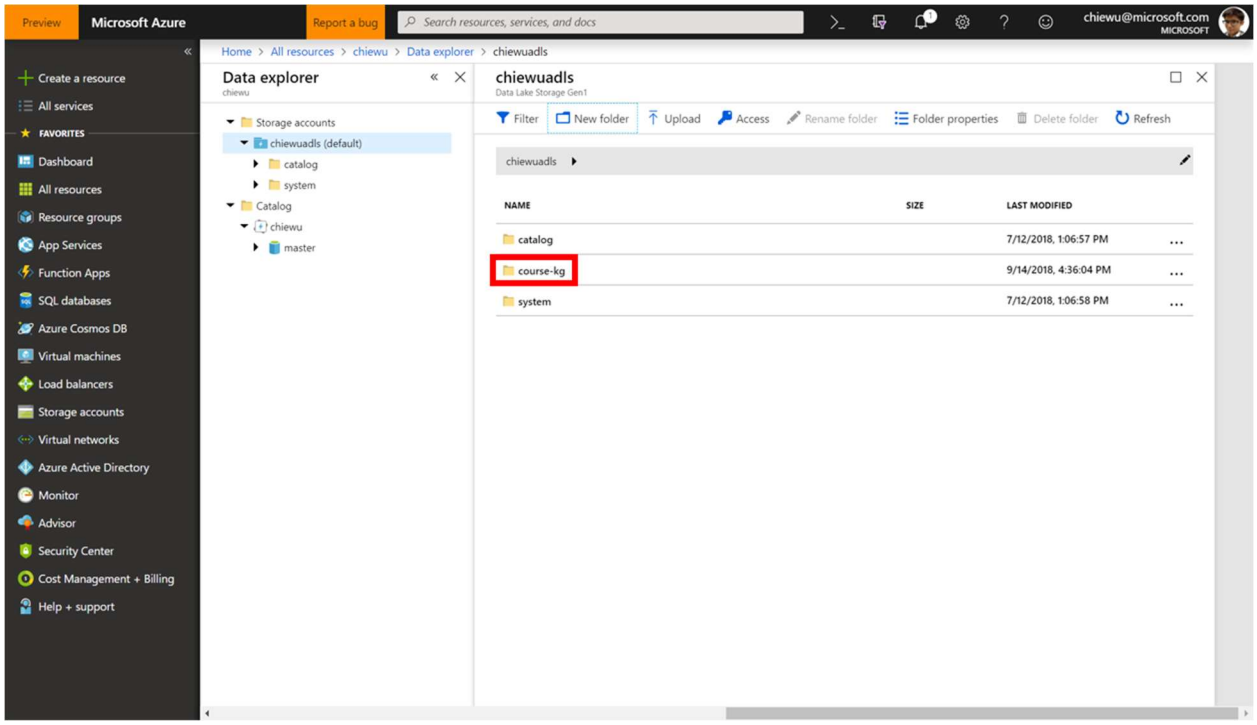
    b. Click **New folder** to create a new folder under Azure Data Lake Store account.



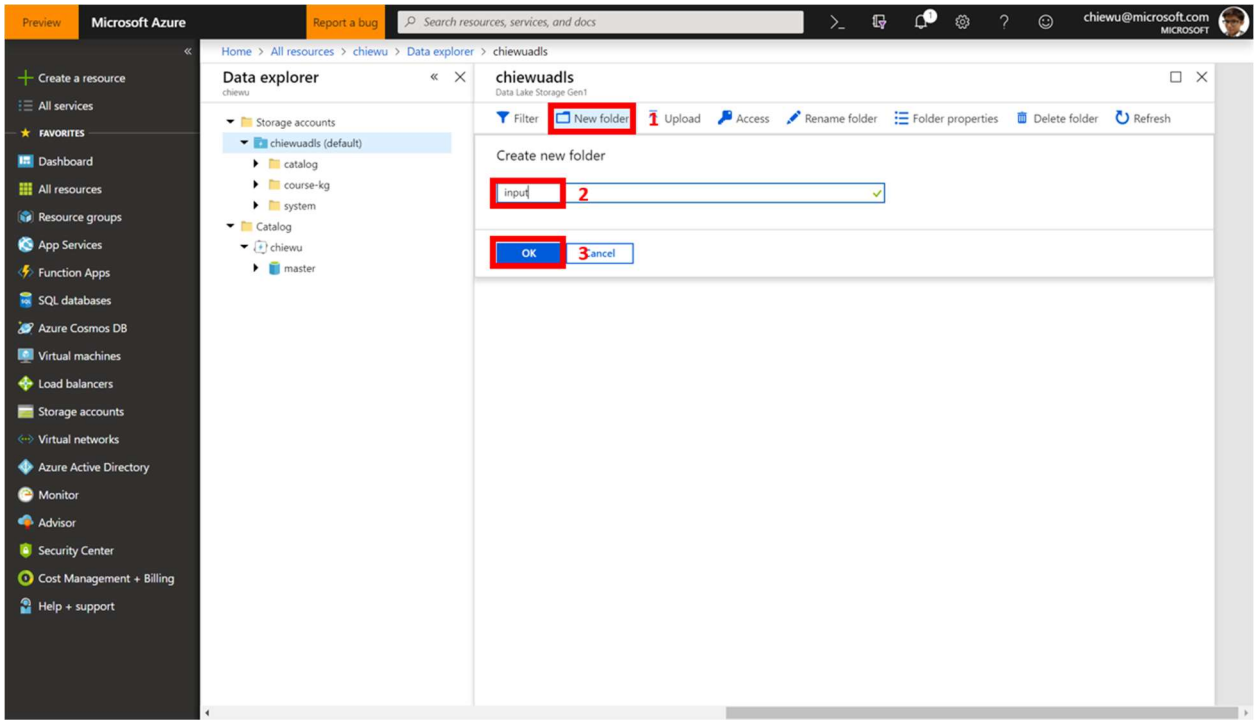
c. Use “**course-kg**” as the folder name and click **OK**.



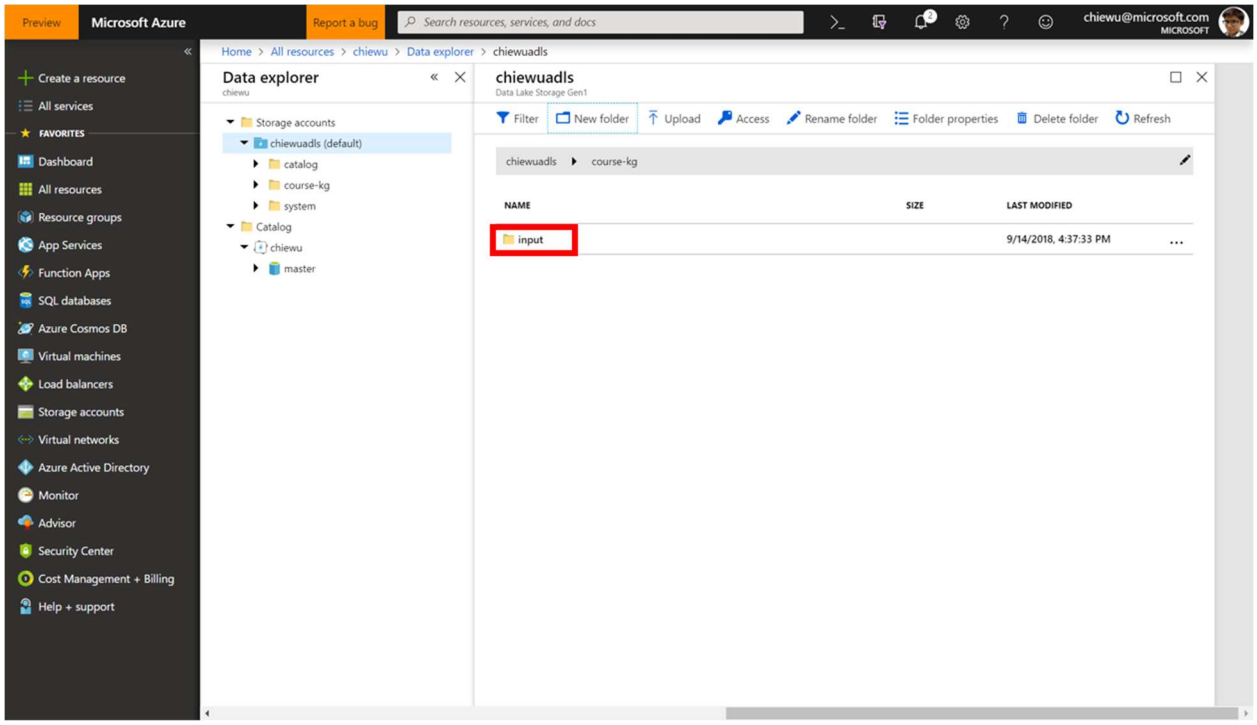
d. Click **course-kg** to go into this folder.



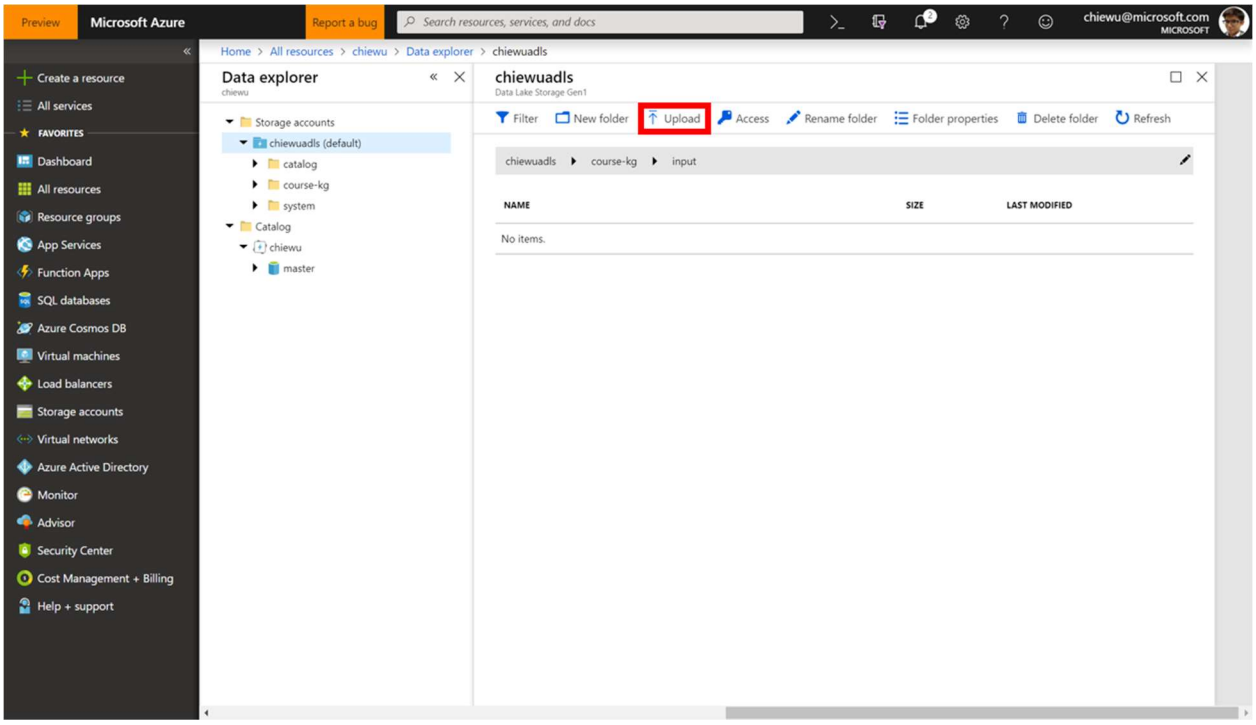
e. Create a new folder “**input**” under “course-kg” folder.



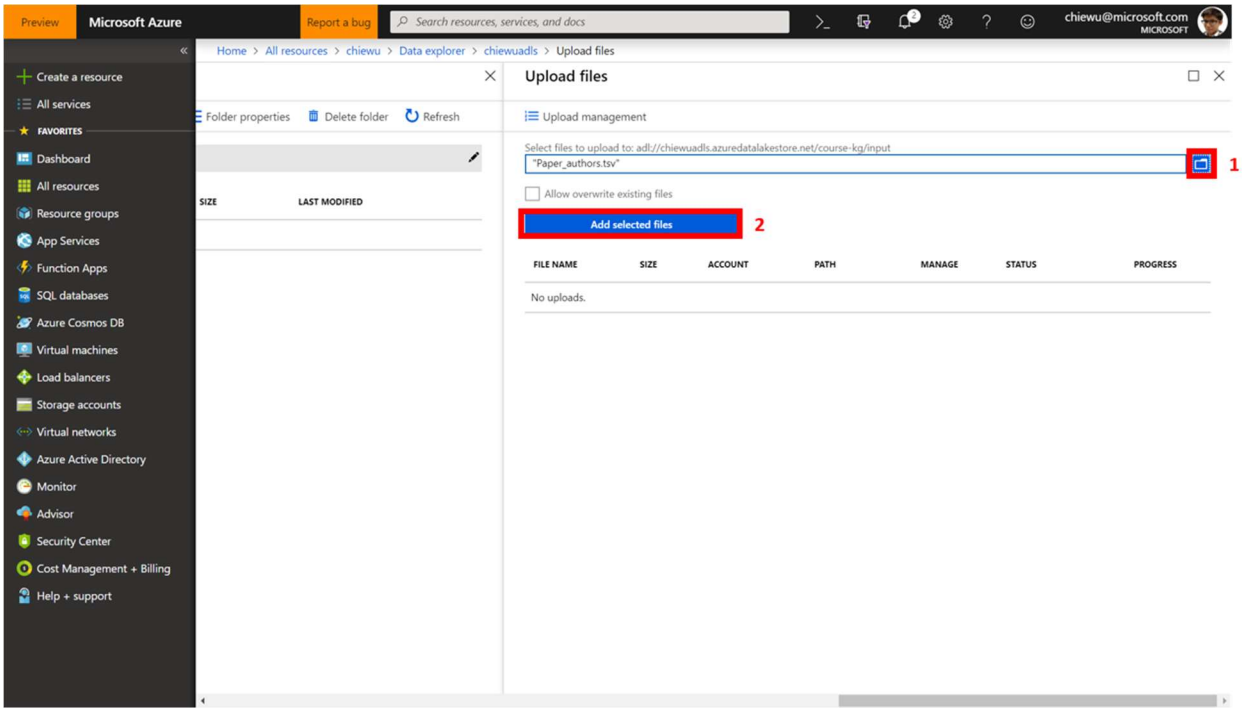
f. Click **input** to go into this folder.



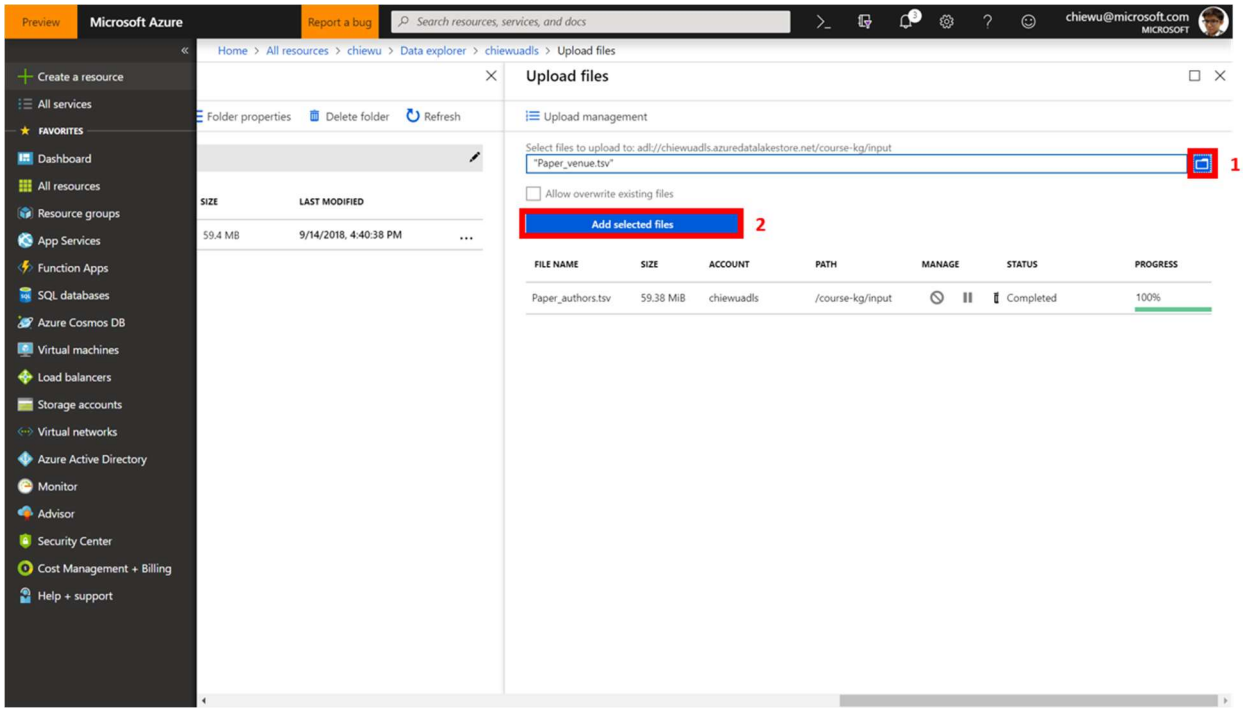
g. Click **Upload**.



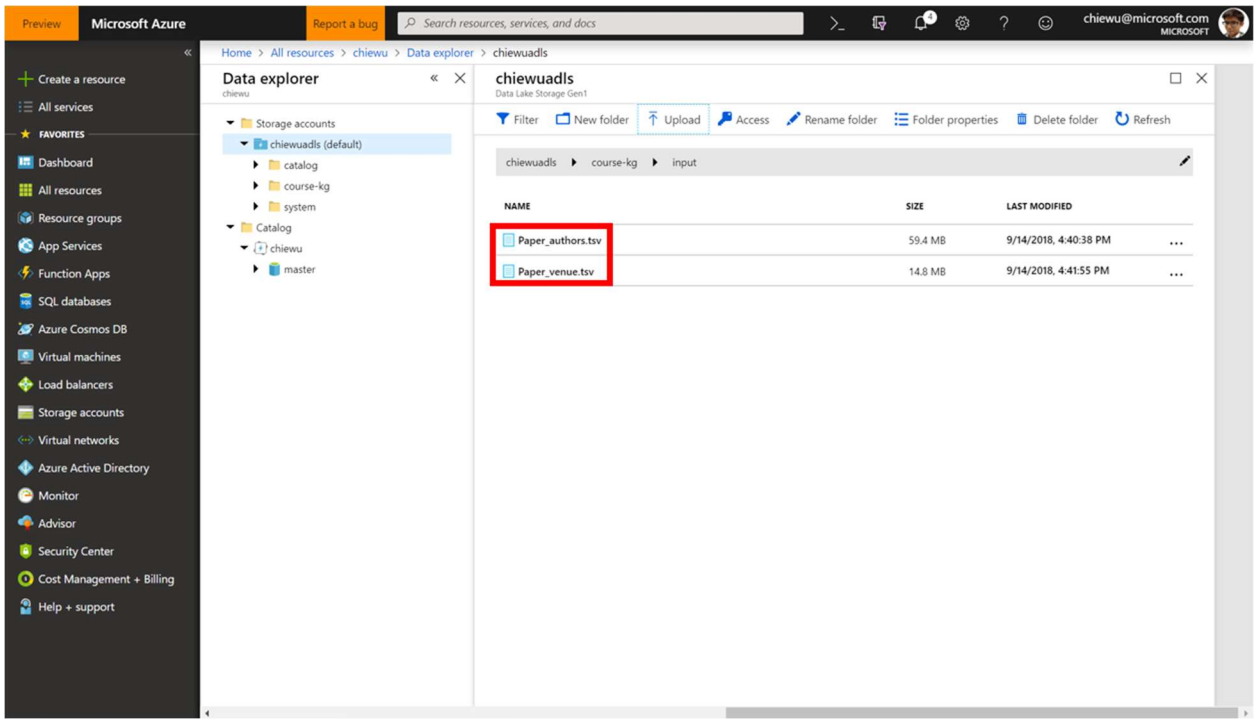
h. Upload "**Paper_authors.tsv**" to the "course-kg/input" folder.



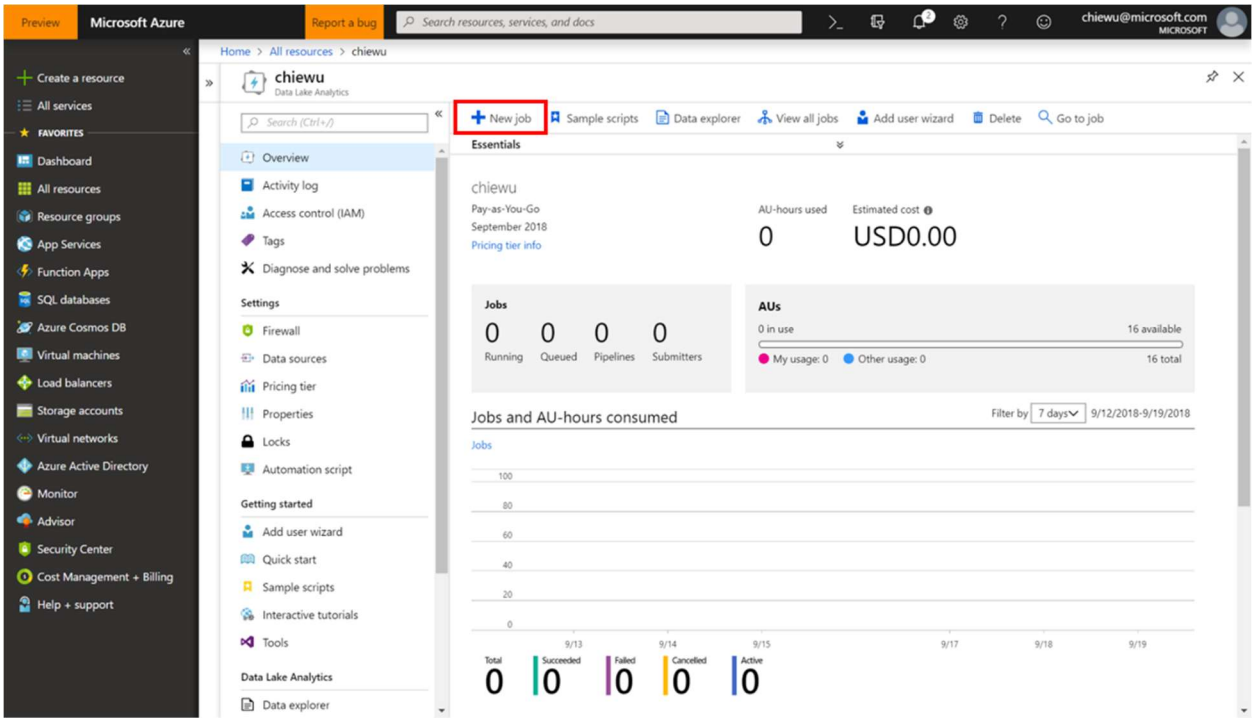
i. Upload “**Paper_venue.tsv**” to the “course-kg/input” folder.



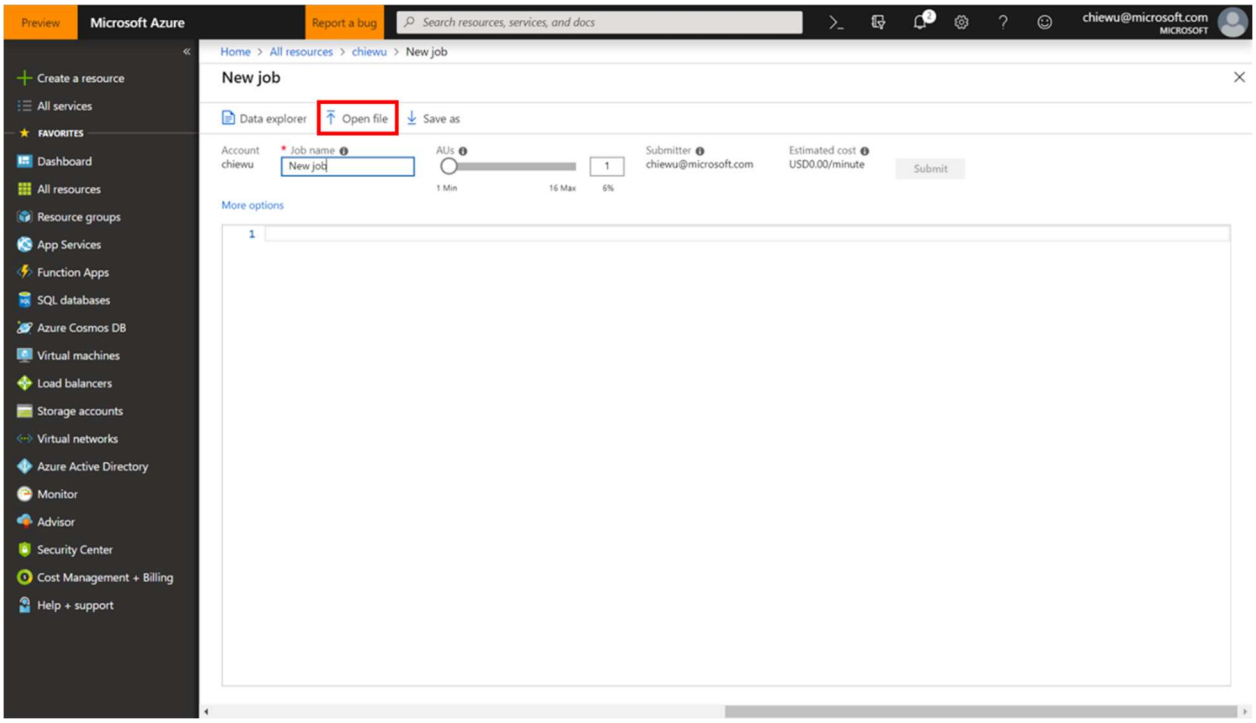
j. View uploaded files under “course-kg/input” folder.



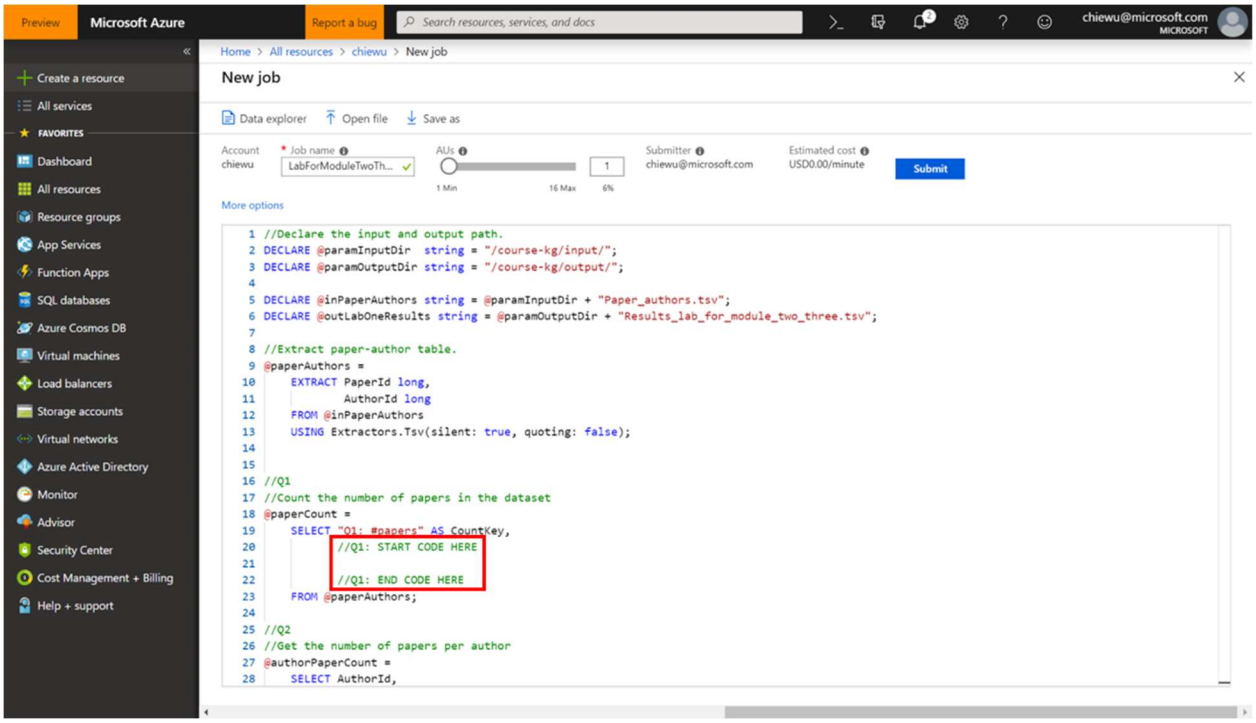
4. Upload the Lab data to Azure Data Lake Store account
   a. Go to Azure Data Lake Analytics account and click **New job** on the top menu.



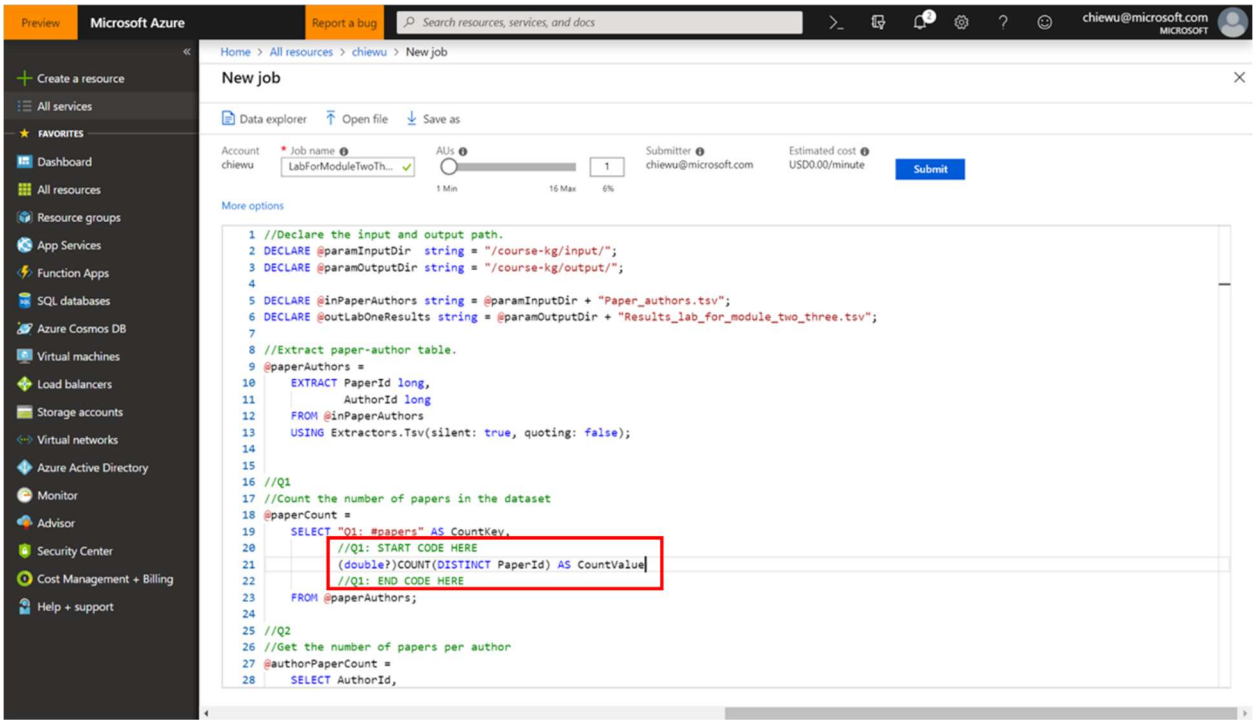
b. Click **Open file** to open the Lab script written in U-SQL, for example, the first lab's script "LabForModuleTwoThree.usql".



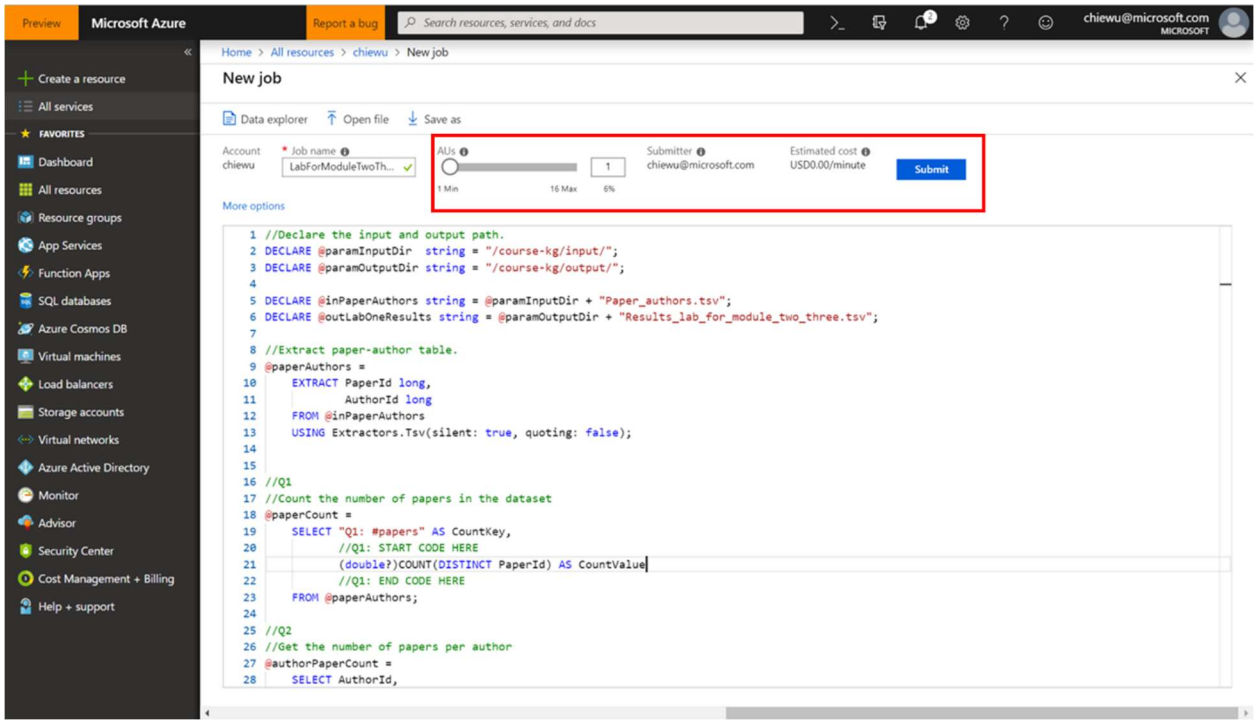
c. Fill in the missing line of code for each question (see details in Lab instructions).



d. For the first question Q1 in the first lab, the correct code is filled below.



e. After completing all the missing code for the lab, click **Submit** to submit the job. The computing cost will be covered by $200 Azure credit that you received when you registered for the Azure free account.



f. After running the script successfully, the results will be output to the "/course-kg/output/" folder.