Google Developer Student Clubs

Data Engineering Workshop

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GDSC

Session #4: Star Schema + ETL (PART-1)

Session #5: ETL (PART-2)

If you don't attend Session #4 or Session #5 or both, you can see the slides and try with the concept of session 2 and 3 to do the requirements in the slides 7,8

Data Engineering Project

Today's agenda

- Designing our Data Warehouse using Star Schema. (The 4-Step Design)

- Building the data model in SSMS.

- Starting the ETL in Talend.

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The Data Warehouse Design (Star Schema)

- 4 – Step Design Process:

  - Select the business process to model. (DW Subject)

  - Declare the grain of the business process.

  - Choose the dimensions.

  - Identify the measures.

- Build the database in SSMS then Generate the Model in SSMS also.

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Starting the ETL

- Manipulate the Dataset as the model needs.

- Using Talend Open Studio.

- Load the Dimensions Data into SSMS.

- We will continue in the next session working on Fact Table.

Break Time

Set the timer on 10 mins

Data Engineering Project – Session #5

- Follow the schema in SQL Server. Done

- Clean the data. Done

- Move the dimensions data to SQL. Done

- Build the Fact Table using Talend and put the data into SQL. DONE

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What are the requirements for the next session #6 ? (Student Work Needed)

- Create personal folder on GitHub with Formal Name.

- Design the Star Schema.

- Understand and clean the data.

- Load the Dimensions into SQL.

- Load the Fact Table into SQL.

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Practice and Fun!

We're almost done

I wish you all enjoyed.

We'll have a feedback form, and questions form now.

Next?: Understand the dataset, work on the project step by step with us, create folder with your **formal name** on the GitHub repo. to add your work. Follow Up !!!

Thanks

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