

Scenario:


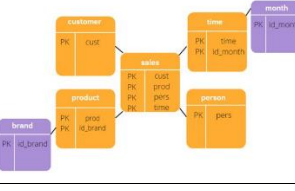
What do I need to make it happen?

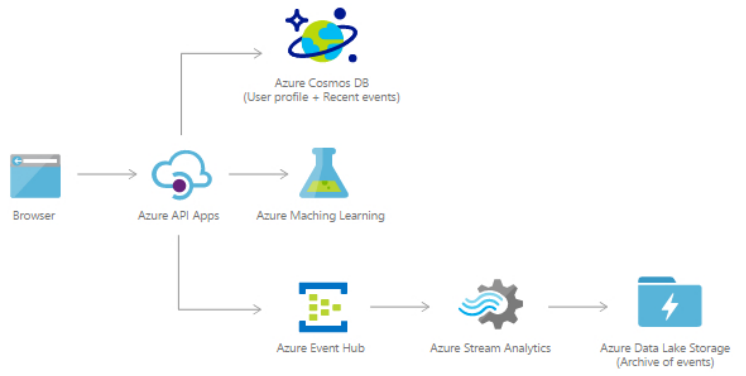
- Design, determine Lifecycle DevFlow steps
- Source data: Connections
- What code or no code will I need?
- Where do I put it when it's done?

Data; App; Storage; mini networks for security; user control (RBAC) etc..

1. Data: name:value or single or relational
2. What code is needed?
3. What host services (Azure, AWS etc.)

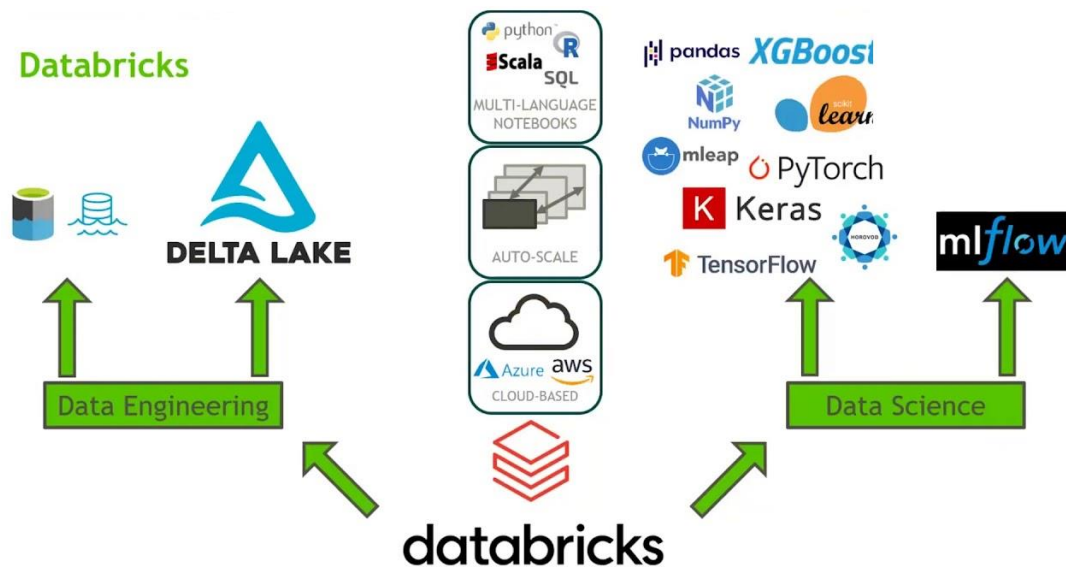
Text: What do I type or setup to: (What C.R.U.D. R U Doing?)

Process or DevFlow step in DevOps	Parts or description
1. Connect	Connection string; server name; admin' password
4. Extract	How and to where?
5. Did I need to Stringify/parse	JSON and the Querystring (GET – POST)
6. Transform to what supports my scenario a. Create star schema relations from non-relational data	<p>Star Schema</p>  <p>Dimensions: "Filters"</p> <p>How many green 26" wheel womens bikes sold to ages 10 - 18 on March 18, 2001 between 10 am and 3 pm; from the Miami Nw location; by sales person.</p> <p>Modeling/Shaping data is creating a data structure that can answer the question.</p> <p>Snowflake Schema</p> 
7. Load: a. To environment for sharing. b. To "Client" front end for a user (web site, mobile app, application for laptop/desktop) c. Provide a URL for C.R.U.D. Ops as a 3 rd party data provider? (Google Maps)	Column:Rows – relational – cache – app storage

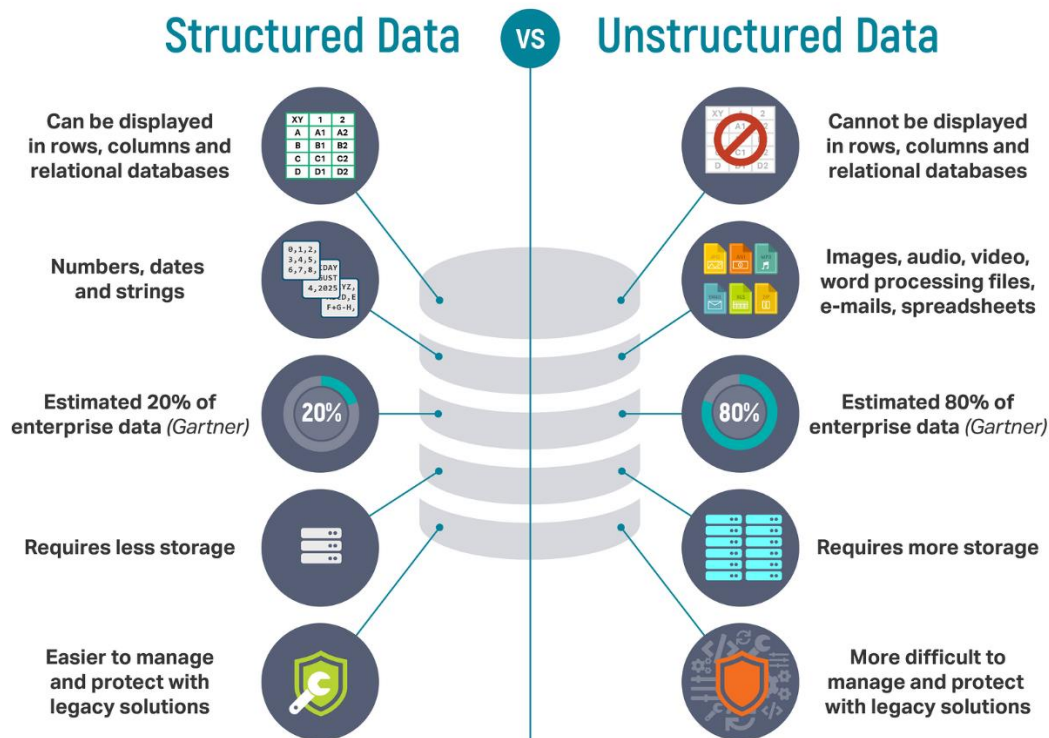
<p>8. What is the lifetime for this app and the process to improve and re-deploy/publish for use?</p>	<ul style="list-style-type: none"> 1 day, 2 hours, it's a permanent portal ?
<p>9. My Big Parts</p>	<p>My Tools: A Design; DevOps, Text; Code & GUI editors, Hosting</p>
<ul style="list-style-type: none"> • DevOps • Data • Storage • Messaging: • Admin/RBAC • Monitor/Trouble shoot • Insights: Analyze any and every number • ML - Machine Learn: Catalogue behavior and data to predict outcomes; data is used as numbers to create up or down trends that are used to trigger other events. • AI – Artificial Intelligence – companion to ML; using the data created and stored while the user does anything online or with a device. 	
<p>10. What is an App(lication)</p> <p>Services and projects working together</p>	 <pre> graph LR Browser[Browser] --> AzureAPI[Azure API Apps] AzureAPI --> AzureCosmos[Azure Cosmos DB (User profile + Recent events)] AzureAPI --> AzureML[Azure Machine Learning] AzureAPI --> AzureEventHub[Azure Event Hub] AzureEventHub --> AzureStreamAnalytics[Azure Stream Analytics] AzureStreamAnalytics --> AzureDataLake[Azure Data Lake Storage (Archive of events)] </pre>
<p>11. Service</p> <p>12. Package/Module</p> <p>13. Project</p> <p>14. Folder structure</p> <p>15. Files types</p>	

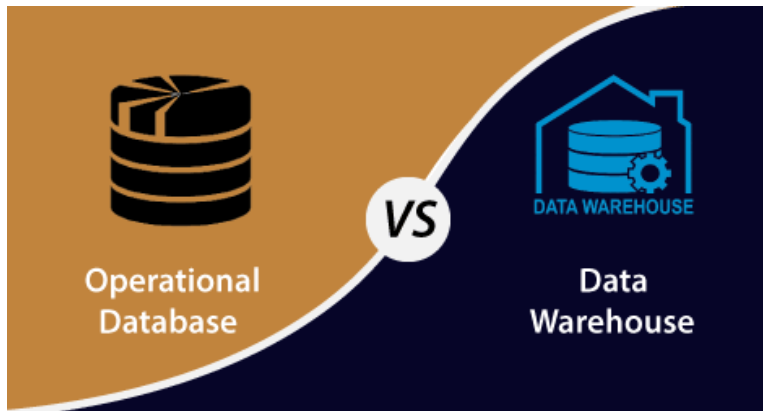
Design: App Cloud (Hosting) Structure – App use case – Data movement

Design example



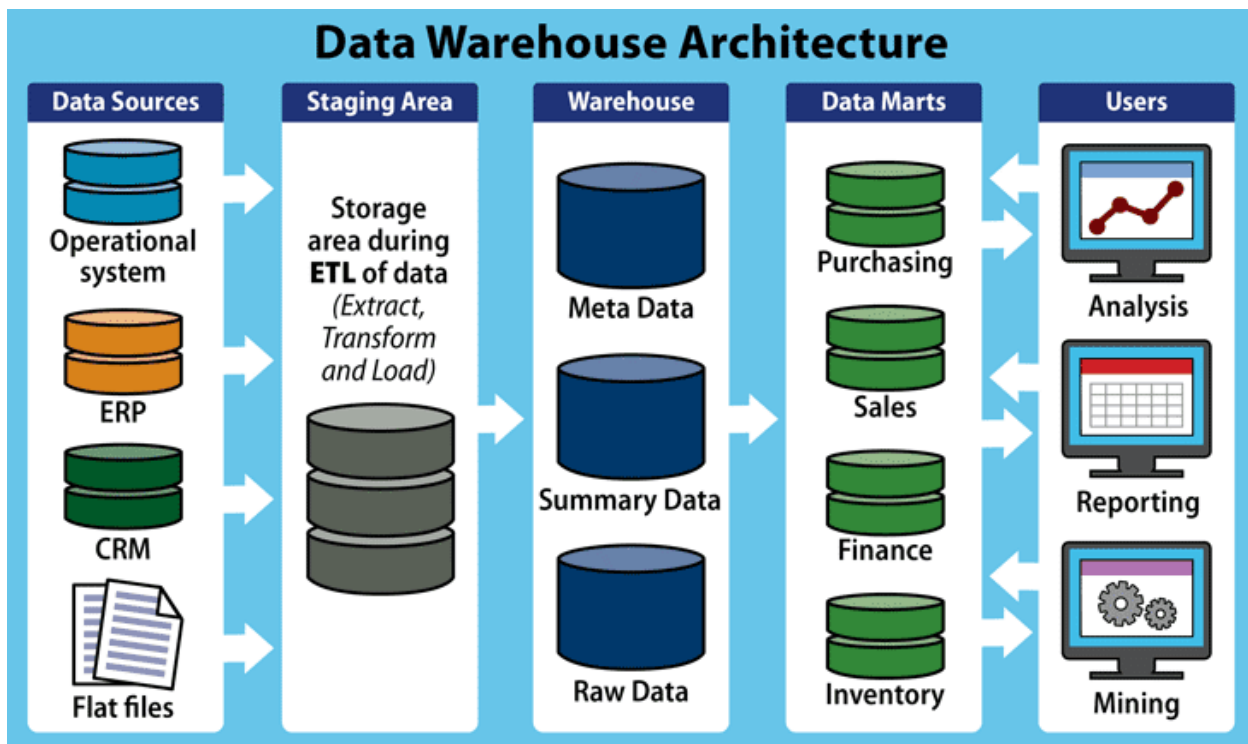
Data format

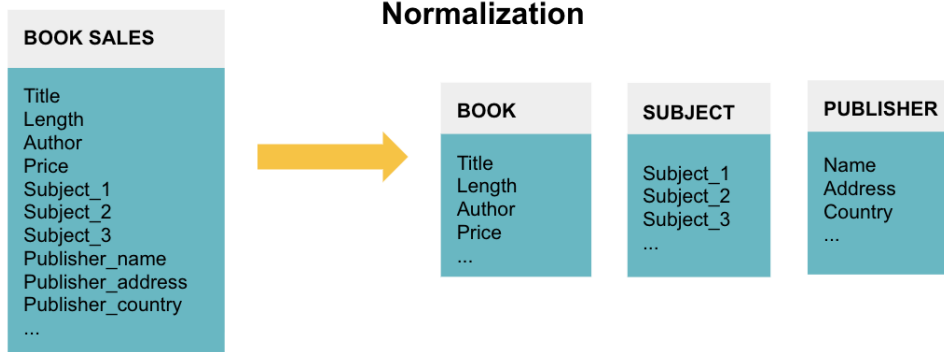




Two Azure Data Repositories

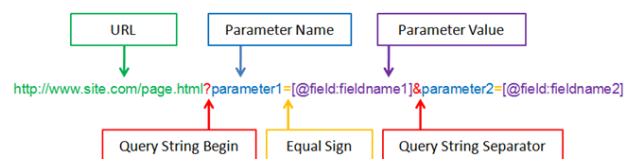
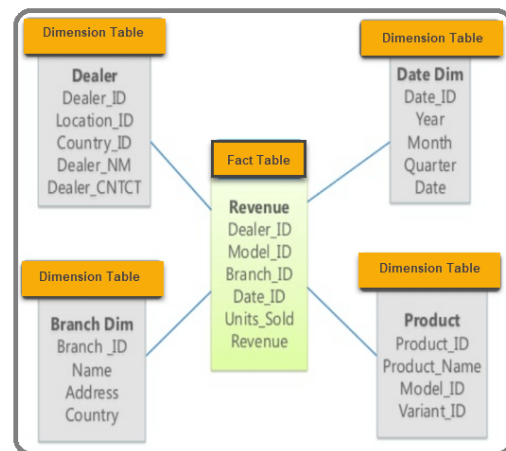
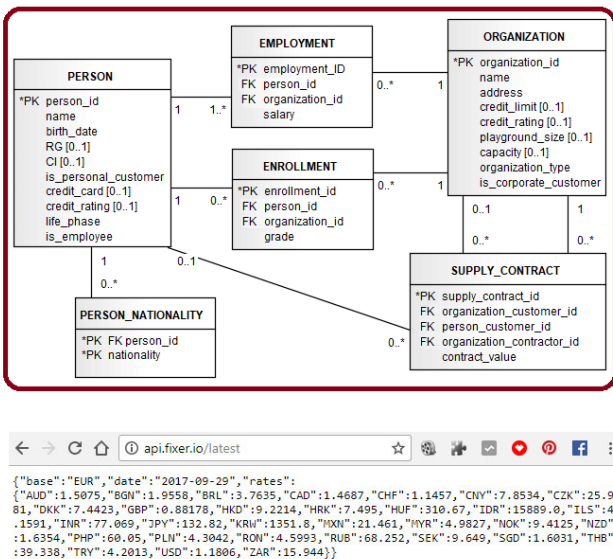
SQL Data Warehouse	Data Lake Store
<ul style="list-style-type: none">• Structured data<ul style="list-style-type: none">• Relational tables• Pre-processed• Business reporting• Built for SQL Server ecosystem• Regulatory compliance	<ul style="list-style-type: none">• Structured and raw data<ul style="list-style-type: none">• Documents, images, social media, etc.• Data analytics and exploration• Built for Hadoop ecosystem• No regulatory compliance





Stringify/Parse: JSON – manual or it happens and I don't know or care?

[How to Get JSON from URL in Python? – Finxter](#)



Project: A file and folder structure based on intent and design.

[.NET default templates for dotnet new - .NET CLI | Microsoft Learn](#)