INDUSTRY TALK 2

System Development

Ms. Qistina Batrisyia Binti Azman Shah

Professional, AI Operation

credence
Transformation Done Right

We are year 1 students who studied networking and cybersecurity. On 28.12.2023, we had an industry Talk 2 lead by Ms. Qistina Batrisyia Binti Azman Shah a Professional in AI Operation from Credence a TM subsidiary

- Melody Lui Ruo Ning(A23CS0244)
- Muhammad Aziidan(A23CS0124)
- Ahmad Raziq(A23CS0037)
- Muhammad Aniq Aziq (A23CS0122)
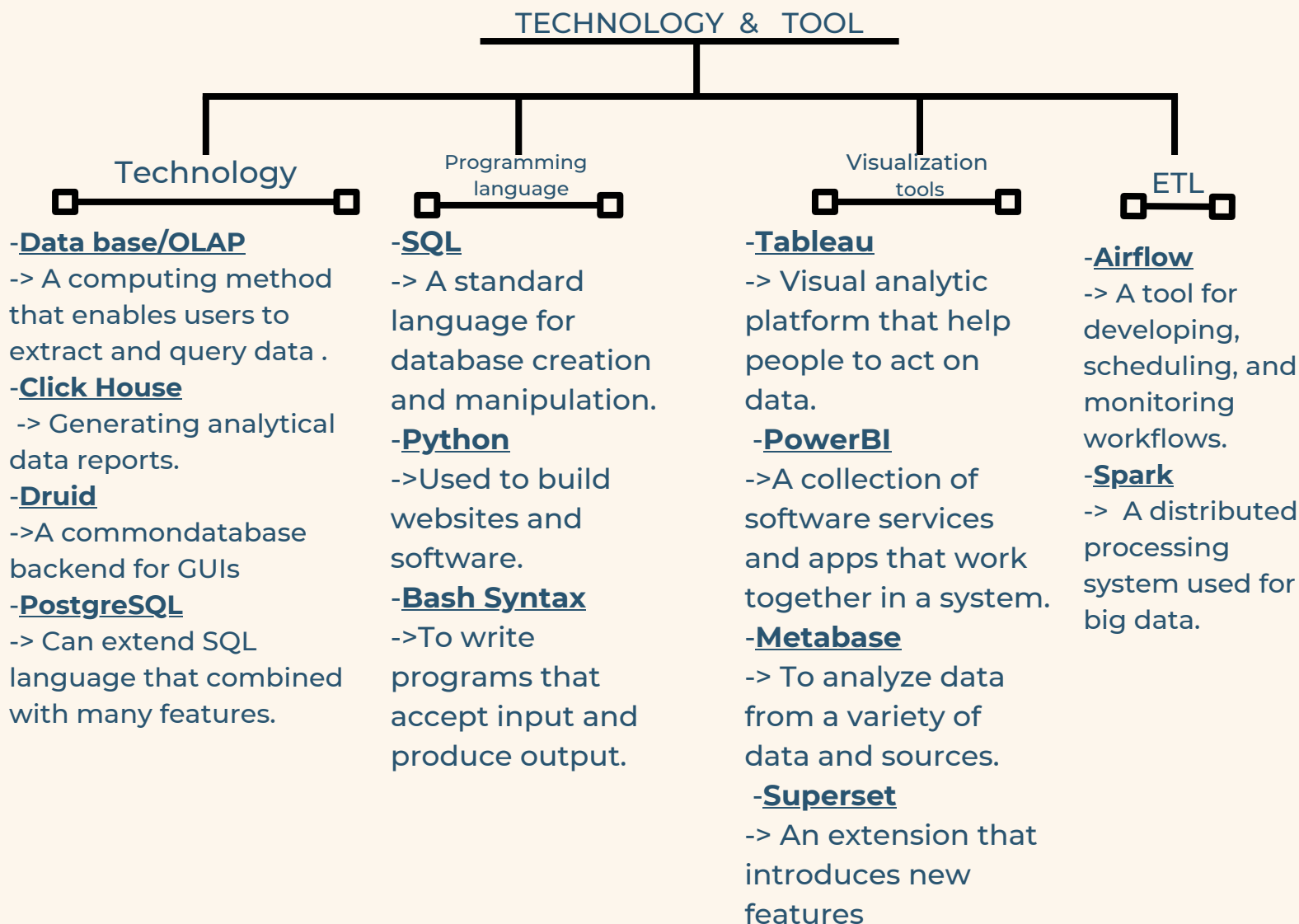- Muhammad Zafril Ihsan (A23CS0304)

Description of system development and history

The speaker is pursuing a Bachelor of Computer Science with a specialization in Data Engineering at UTM, laying the foundation for her career in analytics from 2016 to 2020. During this period, she engaged in practical experience through an industrial training position as a Social Media Data Analyst at TMONE in 2019-2020. Post-graduation, she continued to grow within TMONE, taking on roles as a Social Media Data Analyst and later as a Data Engineer from 2020 to 2022. This hands-on experience sharpened her skills in data analysis and engineering. Since 2022, she has been contributing to the Analytics Delivery team in AI Operation at Credence, further expanding her expertise in the dynamic field of analytics. This journey reflects her commitment to continuous learning and professional development within the analytics industry.

The systematic analysis of data or statistics is known as analytics. It covers the identification, analysis, and distribution of significant patterns, trends, and insights from data in the context of business and technology. Gaining a deeper understanding of a specific topic or issue, making wise judgements, and possibly forecasting future events are the objectives of analytics. Analytics is widely used in a variety of industries, such as technology, marketing, finance, and healthcare, to enhance data-driven decision-making and extract useful information.

Many career paths are available in analytics, including those of Business Analysts who connect technology and business, Data Scientists who use cutting-edge techniques to gain insights, Data Architects who specialize in data structure, Data Analysts who interpret data, Data Engineers who work with large datasets, and BI Developers who produce visualizations. In order to optimize the value obtained from data inside an organization, professionals frequently collaborate across various disciplines. Each role plays a part in utilizing data for informed decision-making. A person's preferences, skills, and technical interests all come into play while selecting an analytics career.

TECHNOLOGY & TOOL USED IN CREDENCE'S SYSTEM

TECHNOLOGY & TOOL

Technology

- **Data base/OLAP**
-> A computing method that enables users to extract and query data .
- **Click House**
 -> Generating analytical data reports.
- **Druid**
->A commondatabase backend for GUIs
- **PostgreSQL**
-> Can extend SQL language that combined with many features.

Programming language

- **SQL**
-> A standard language for database creation and manipulation.
- **Python**
->Used to build websites and software.
- **Bash Syntax**
->To write programs that accept input and produce output.

Visualization tools

- **Tableau**
-> Visual analytic platform that help people to act on data.
 - **PowerBI**
->A collection of software services and apps that work together in a system.
- **Metabase**
-> To analyze data from a variety of data and sources.
 - **Superset**
-> An extension that introduces new features

ETL

- **Airflow**
-> A tool for developing, scheduling, and monitoring workflows.
- **Spark**
-> A distributed processing system used for big data.

REFLECTION: How you will be a system developer in the next 4 years?

MELODY:
For me, I would like to always be updated on the latest technologies and trends in system development by participating some related communities. By joining some computer science and system development activities, I am able to gain hands-on experience and sharpen my weaknesses.

AZIIDAN:
For me, since the world of technologies is so fast, I need to be discipline and constantly learn about the latest technologies so that I will not be left behind. There are many webinars and online resource that is free for me to learn. By joining some physical computer science activities, it can help increase my knowledge and hands-on experience.

RAZIQ:
Through my insight, in order for me to be the best cybersecurity in the world, I will need to improve my communication skills so that I can work as a team. Being disciplined is a must to become one of the best in this world.

ANIQ
From what I get, I need to more catch up with the latest advancement technologies for my career in the future. This industry talk gives me more exposure about a career in computer science field. I also realize I need to hone my skills more to be more competitive with others in the computer science career.

ZAFRIL
 In my opinion, to become a system developer in the next 4 years, I need to work on communication skills because system developer works in a team. Soft skills are crucial for me to be relevant in the industry. Nowadays, a lot of collaboration platform for programming such as GitHub where programmer shares their idea in coding.