



REPORT KEY ISSUANCE STATUS

1/5 - 9/6

PREPARED BY:
IamQuyt



Find my report there
github.com/MQuynh

About IamQuyt

My name is Quynh and you can call me IamQuyt, currently, I'm a final-year student majoring in data science at UEH University. My major is mainly data-oriented and I've joined many projects about Python, SQL, and practice building Dashboard based on business data. You can see my project at github.com/MQuynh. For these projects, I utilized knowledge learned at UEH University and the skills of communication, critical thinking, and public speaking. If you are interested in my projects and your company is recruiting for Data Analyst position, please find me via email at myquynh258369@gmail.com



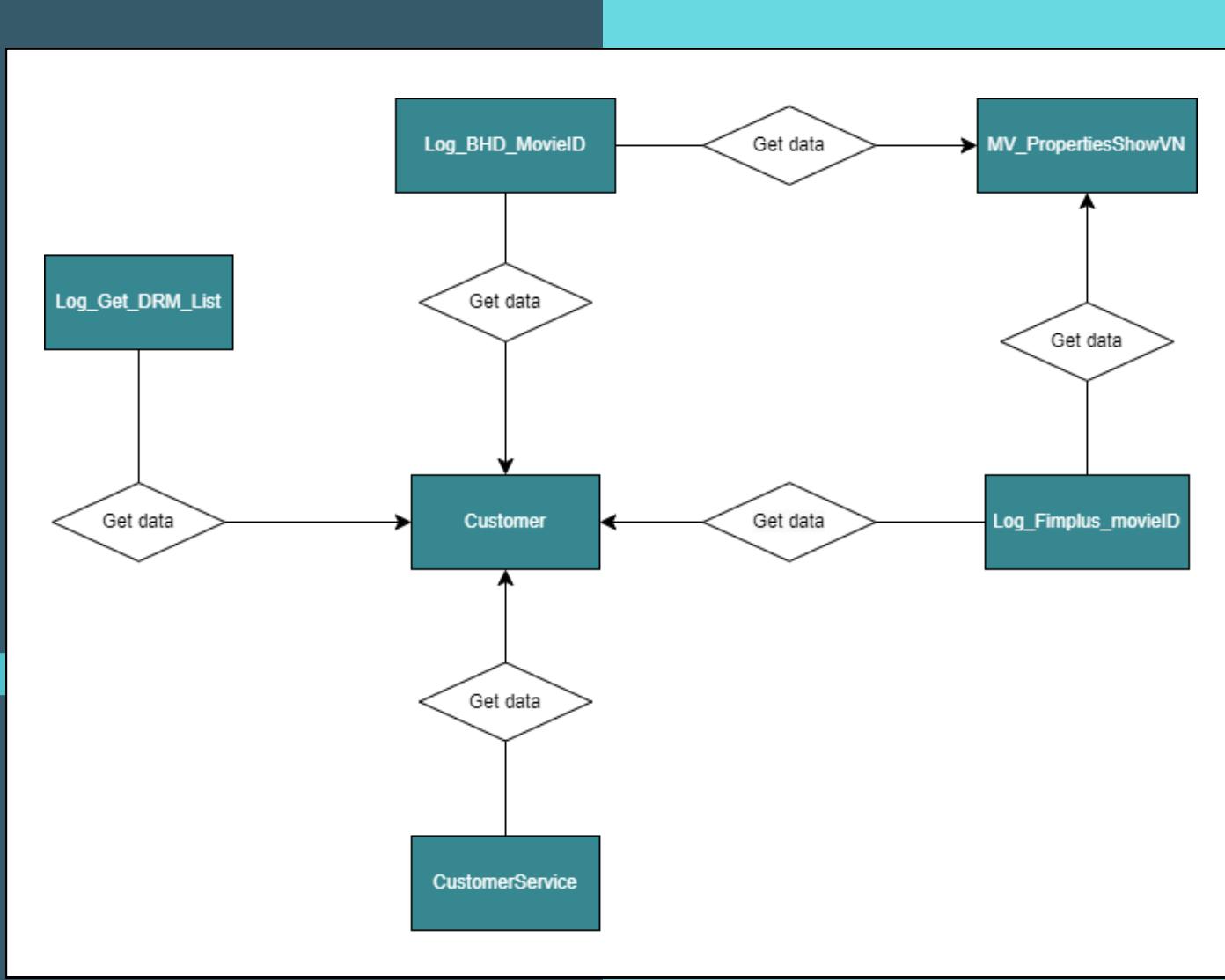
Overview

At present, monitoring and predicting the number of DRM keys used for content encryption is a crucial issue not only for the Technical Solutions team but also for other departments in general, as it directly relates to the costs and business planning of FPT Television. However, despite its importance, we currently lack a BI Dashboard or regular reports on this matter. Therefore, this report aims to address the issue by providing accurate information on the key issuance situation and predicting future key issuance.

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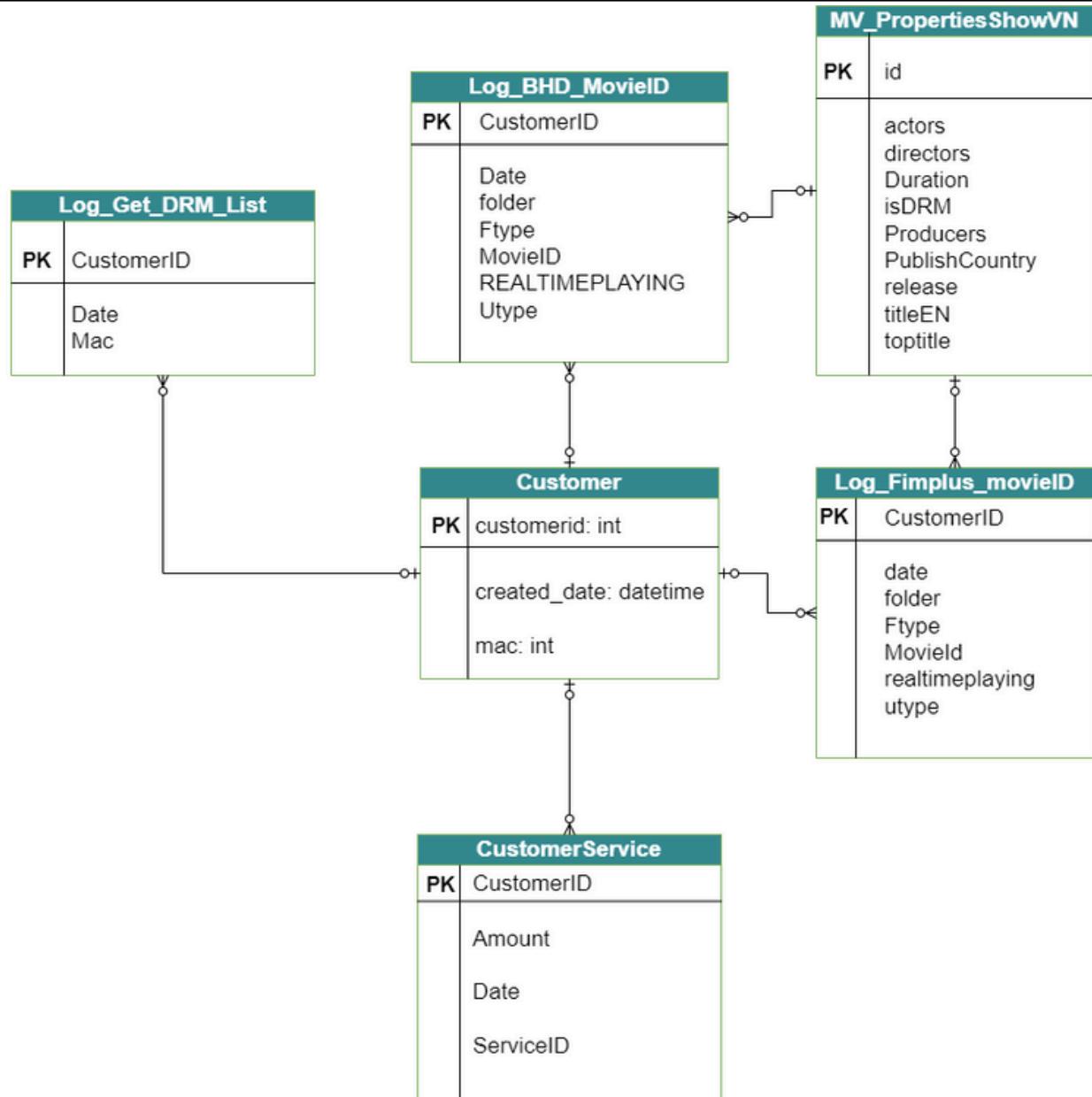
IamQuyt, our dedicated team member, will take charge of resolving this matter. IamQuyt will develop a comprehensive report that provides precise insights into the key issuance status and forecasts the future key issuance trends. This report will enable the Technical Solutions team and other relevant departments to have a holistic view of the current situation and the evolving trends in DRM key issuance. It will support business decision-making and optimize the operations of FPT Television.

Conceptual Map



Note: In this conceptual map, we can visualize tables such as Log_Get_DRM_List, Log_BHD_Movie_ID and Log_Fimplus_movielD as FACT tables, while the remaining three tables are DIM tables.

Data Model



Description of tables (1)

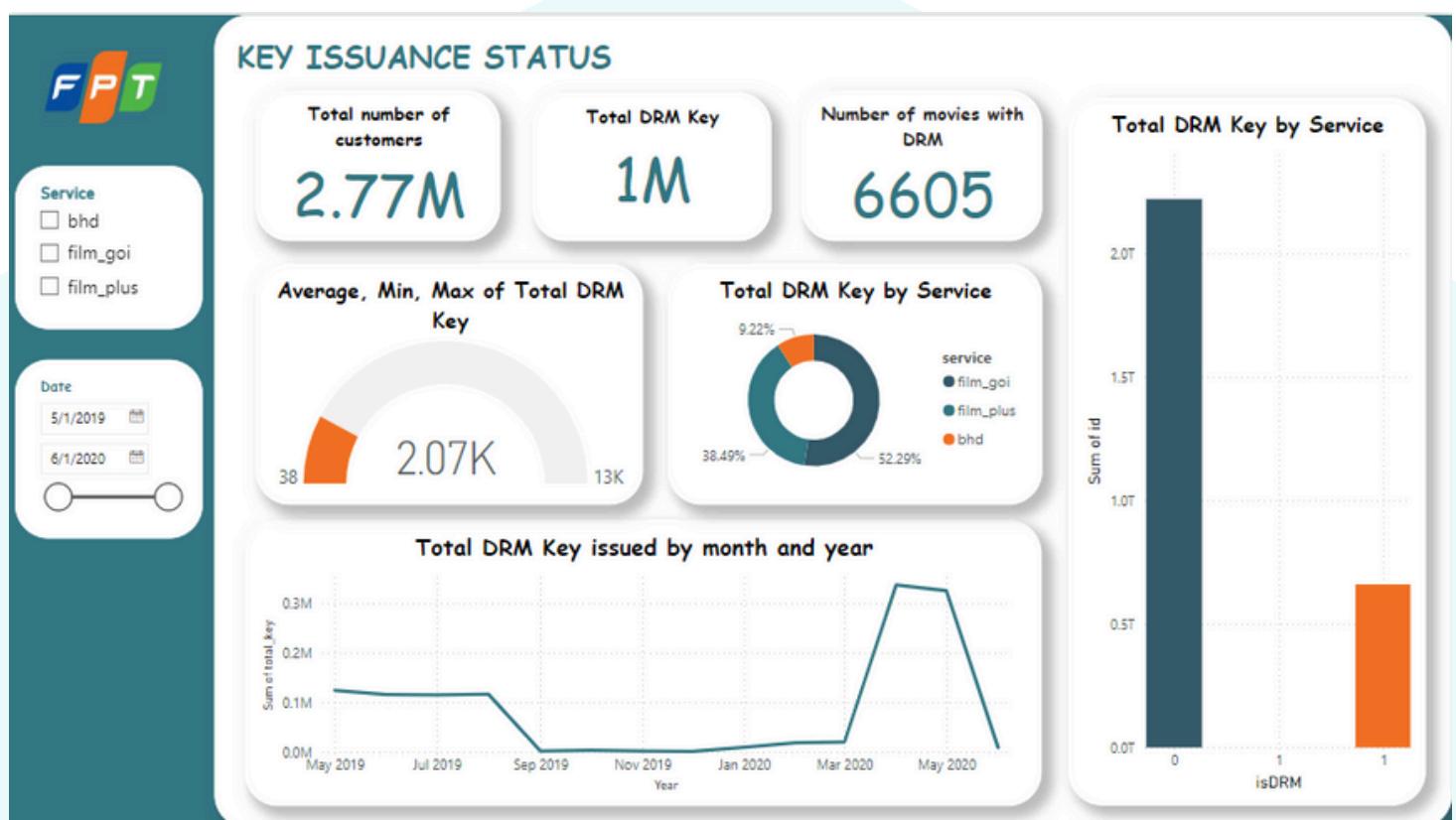
No	Table name	Table type	Description
1	Customer	DIM	Contain customer information: customer identifier (customerid), customer device identifier (mac), customer information creation date and time (created_date).
2	CustomerService	DIM	Contains information about customer services and corresponding transactions: customer identifier (CustomerID), service identifier (ServiceID), transaction amount (Amount), transaction date and time (Date)
3	Log_Get_DRM_List	FACT	Contains information about the customer's DRM (Digital Rights Management) history: customer identifier (CustomeID), date DRM was obtained (Date), device identifier when DRM was obtained (Mac)

Description of tables (2)

No	Table name	Table type	Description
4	Log_BHD_MovieID	FACT	Record activities related to watching customer BHD movies: customer identifier (CustomerID), movie identifier (MovieID), file type (FTYPE), movie playing time (REALTIMEPLAYING), ...
5	MV_PropertiesShowVN	DIM	Contains information about movies: movie identifier (id), main genre (toptitle), title (titleEN), release year (release), actors (actors), directors (directors), flag only DRM support with 0 being no DRM support and 1 being DRM support (isDRM),...
6	Log_Fimplus_movieID	FACT	Record activities related to watching customer Film Plus movies: customer identifier (customerid), movie identifier (movieid), file type (Ftype), movie playing time (Realtimeplaying), movie viewing time (Date), movie folder (Folder), user type (Utype).

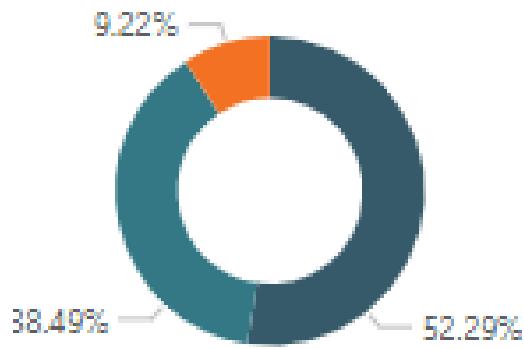


Dashboard



And this is the Dashboard that IamQuyt launched to solve FPT's current problem of not having a BI Dashboard. This dashboard can help write regular reports on the status of Key issuance

Explain Dashboard



This dashboard offers key metrics for FPT's DRM key allocation, including customer count, DRM key count, movies with DRM, DRM keys by service, average/min/max total DRM keys, monthly/yearly key issuance, and total key and ID counts. It helps monitor trends and support decision-making.

Panel

Vendor Selection: This section allows you to switch between different types of films.

Time Slicer: This section allows you to select a specific time period to view the data.

Pie Chart

This chart shows the contribution of each film to the total number of DRM keys issued.

Gauge

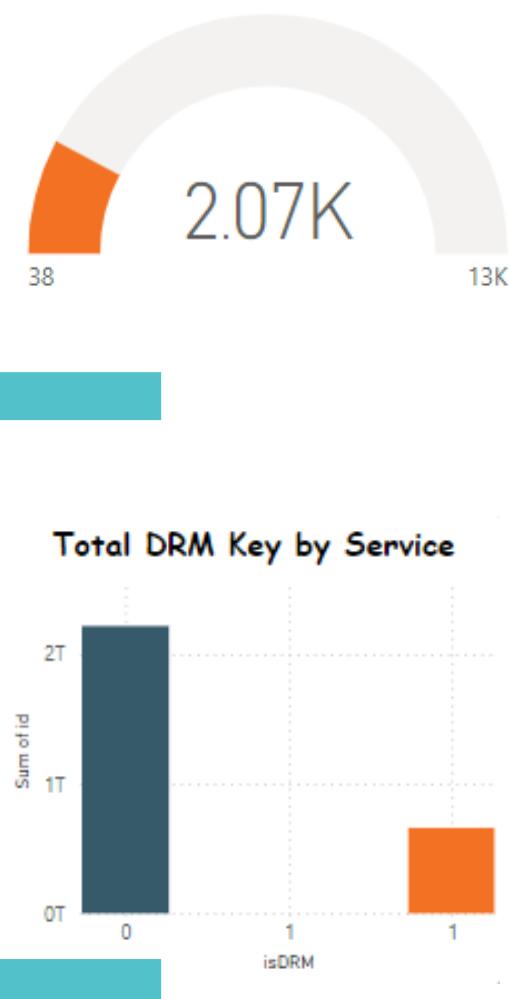
This gauge displays the maximum, minimum, and average of total DRM Key

Line Chart

This chart shows the total daily number of DRM keys issued over the selected time period.

Bar Chart

This chart shows a comparison of values that do not support DRM, and values that do support DRM





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