

The background of the slide is a dense field of three-dimensional, light blue numbers (0-9) of various sizes and orientations, creating a sense of depth and data. A solid black rectangular box is positioned on the right side of the slide, containing the title text in white.

ATM Loan Analysis

This dataset is provided by Mitramas Infosys Global

Outline



Data Preprocessing

Do data transformation and cleaning in power query



Create Metrics

Do the quantitative assessment



Dashboarding

Do the visualizations for all metrics and data to easily find out the insight

Data Preprocessing

Data is served in excel format, The first sheet is the “SEWA ATM” dataset. I deleted the “Masa Sewa” column because it has too many null values and I don’t know which column I can use to help me fill the null values. Communication with stakeholder is very important step, since I can’t do it so I just try my best. For the Delivery column, I remove the canceled order. In the “Tanggal request” column there are some null values, but in delivery column it says that the request is delivered, so I fill the null values using the previous date. The last I unpivoted the period and “Tagihan” column.

1

2

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Daftar Sewa ATM

ATM Loan dataset before preprocessing

NO	Tanggal Request	Lokasi	KOTA	Delivery	Type	Jatuh tempo	No. Invoice	Periode
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	254-12-13	Sunday, April 1, 2018
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	011-01-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	054-02-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	054-03-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	103-04-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	125-05-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	163-06-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	184-07-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	208-08-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	227-09-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	250-10-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	278-11-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	306-12-11	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	008-01-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	042-02-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	066-03-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	091-04-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	112-05-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	133-06-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	154-07-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	180-08-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	190-09-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	209-10-12	Saturday, September
1	Tuesday, September 21, 2010	PLN KOTA	JKT-HUB II	Thursday, October 7, 2010	522	Tuesday, October 1, 2010	235-11-12	Saturday, September

ATM Loan dataset after preprocessing

Data Preprocessing

The second sheet is the activity dataset. I deleted the “nomor tiket”, status and “Pilihan” columns. I simply delete columns that contain all null values.

Data aktivitas ATM										
No.	Tanggal	Nomor	ATM ID	Lokasi	Jenis Layanan	Laporan Kerusakan	Pekerjaan	Nomor Tiket	Penggantian Sparepart	Jumlah Part S
1	16 Juli 2020	88826	ATM00001	RUANG UAT	Error	Hardware	Check & Clea	2007-100	Hard Disk	1
2	03 Maret 202	86010	ATM1200290	PLN AHMAD	Error	Hardware	Check & Clea	2003-028	CCA Dispenser (CCA Kit Presenter Ctrl.) 49-74724	1
									EPP5(BSC),LGE,STTL,ENG(AU),QZ1,BLANK,X,I,C1	1
3	02 Septembe	90681	ATM1200440	GRAHA ENE	PM 1	Preventive Maintenance	Check & Clea			
4	09 Septembe	89466	ATM120047014		Installation	Installation	Instalasi ATM			
5	29 Maret 202	87602	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
6	27 April 2020	87445	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
7	24 November	89385	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
8	24 Agustus 2	87409	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
9	22 Juni 2020	87425	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
10	21 Septembe	87604	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
11	27 Juli 2020	87417	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
12	26 Mei 2020	87608	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
13	22 Oktober 20	89388	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
14	27 Januari 20	87621	ATM2000200	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clea			
15	30 Maret 202	87606	ATM2000200	BKP AR HAK	PM pertama	Preventive Maintenance	Check & Clea			
16	25 November	89384	ATM2000200	BKP AR HAK	PM pertama		Check & Clea			
17	28 April 2020	87439	ATM2000200	BKP AR HAK	PM pertama	Preventive Maintenance	Check & Clea			
18	16 Desember	89376	ATM2000200	BKP AR HAK	PM pertama	Preventive Maintenance	Check & Clea			
19	24 Septembe	87403	ATM2000200	BKP AR HAK	PM pertama	Preventive Maintenance	Check & Clea			
20	23 Juni 2020	87424	ATM2000200	BKP AR HAK	PM pertama	Preventive Maintenance	Check & Clea			
21	19 Juli 2020	87418	ATM2000200	BKP AR HAK	PM pertama	Hardware	Check & Clea			
22	27 Mei 2020	87438	ATM2000200	BKP AR HAK	PM pertama	Preventive Maintenance	Check & Clea			

Activity dataset before preprocessing

No.	Merged	Nomor	ATM ID	Lokasi	Jenis Layanan	Laporan Kerusakan	Pekerjaan Dilakukan	Penggar
1	Thursday, July 16, 2020	88826	ATM00001	RUANG UAT DPTI	Error	Hardware	Check & Clean all devices, replace / no replace, test OK.	Hardno replaceDiskno repli
2	Tuesday, March 3, 2020	86010	ATM120029008	PLN AHMAD YANI	Error	Hardware	Check & Clean all devices, replace EPP5 & CCA DISPENSER, test OK.	CCAno replaceDispenserno
3	Wednesday, September 2, 2020	90681	ATM120044005	GRAHA ENERGY	PM 1	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
5	Sunday, March 29, 2020	87602	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
6	Monday, April 27, 2020	87445	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
7	Tuesday, November 24, 2020	89385	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
8	Monday, August 24, 2020	87409	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
9	Monday, June 22, 2020	87425	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
10	Monday, September 21, 2020	87604	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
11	Monday, July 27, 2020	87417	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
12	Tuesday, May 26, 2020	87608	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
13	Thursday, October 22, 2020	89388	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
14	Monday, January 27, 2020	87621	ATM20002001	BKP MEDAN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
15	Monday, March 30, 2020	87606	ATM20002002	BKP AR HAKIM MDN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
17	Tuesday, April 28, 2020	87439	ATM20002002	BKP AR HAKIM MDN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
18	Wednesday, December 16, 2020	89376	ATM20002002	BKP AR HAKIM MDN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
19	Thursday, September 24, 2020	87403	ATM20002002	BKP AR HAKIM MDN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
20	Tuesday, June 23, 2020	87424	ATM20002002	BKP AR HAKIM MDN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
21	Sunday, July 19, 2020	87418	ATM20002002	BKP AR HAKIM MDN	PM pertama	Hardware	Check & Clean all devices, no replace, test OK.	no replace
22	Wednesday, May 27, 2020	87438	ATM20002002	BKP AR HAKIM MDN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
24	Tuesday, January 28, 2020	87623	ATM20002002	BKP AR HAKIM MDN	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
25	Monday, November 23, 2020	89383	ATM20002003	KCP BINJAI	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace
26	Wednesday, April 29, 2020	87440	ATM20002003	KCP BINJAI	PM pertama	Preventive Maintenance	Check & Clean all devices, no replace, test OK.	no replace

Activity dataset after preprocessing

Metrics

Calculated metrics to map client by city and location. See the most used ATM Type and client order by year.

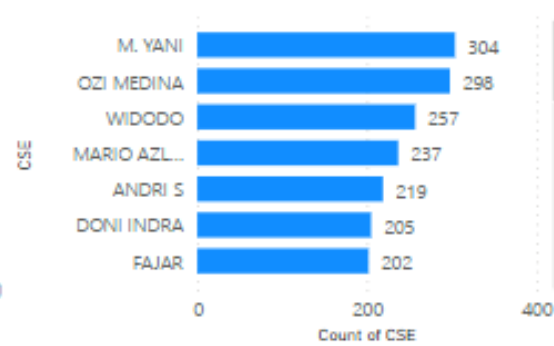
Dashboarding

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Count of Tanggal Request by Year



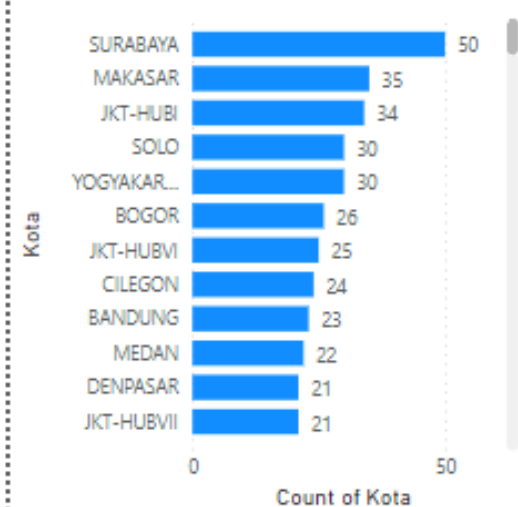
Most Active Employee



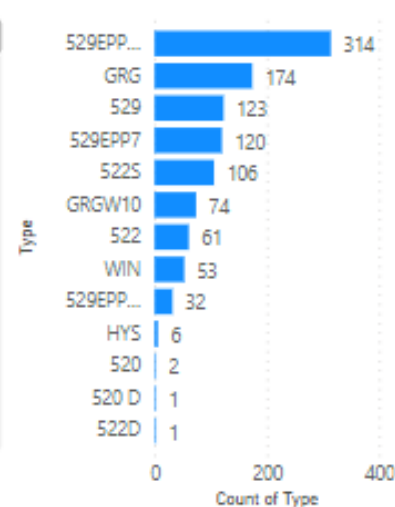
Month



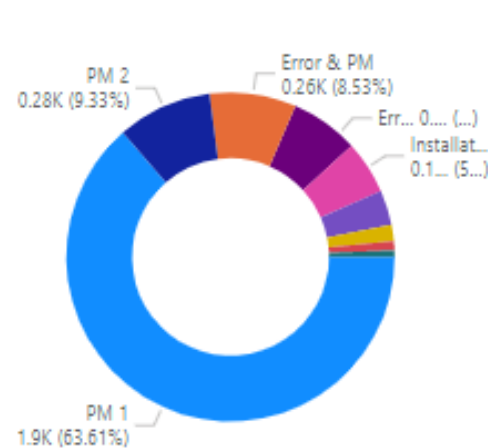
Most City Loan an ATM



Most Used ATM Type



Count of Jenis Layanan by Jenis Layanan



Count of Laporan Kerusakan by Laporan Kerusakan

