

DAFTAR PUSTAKA

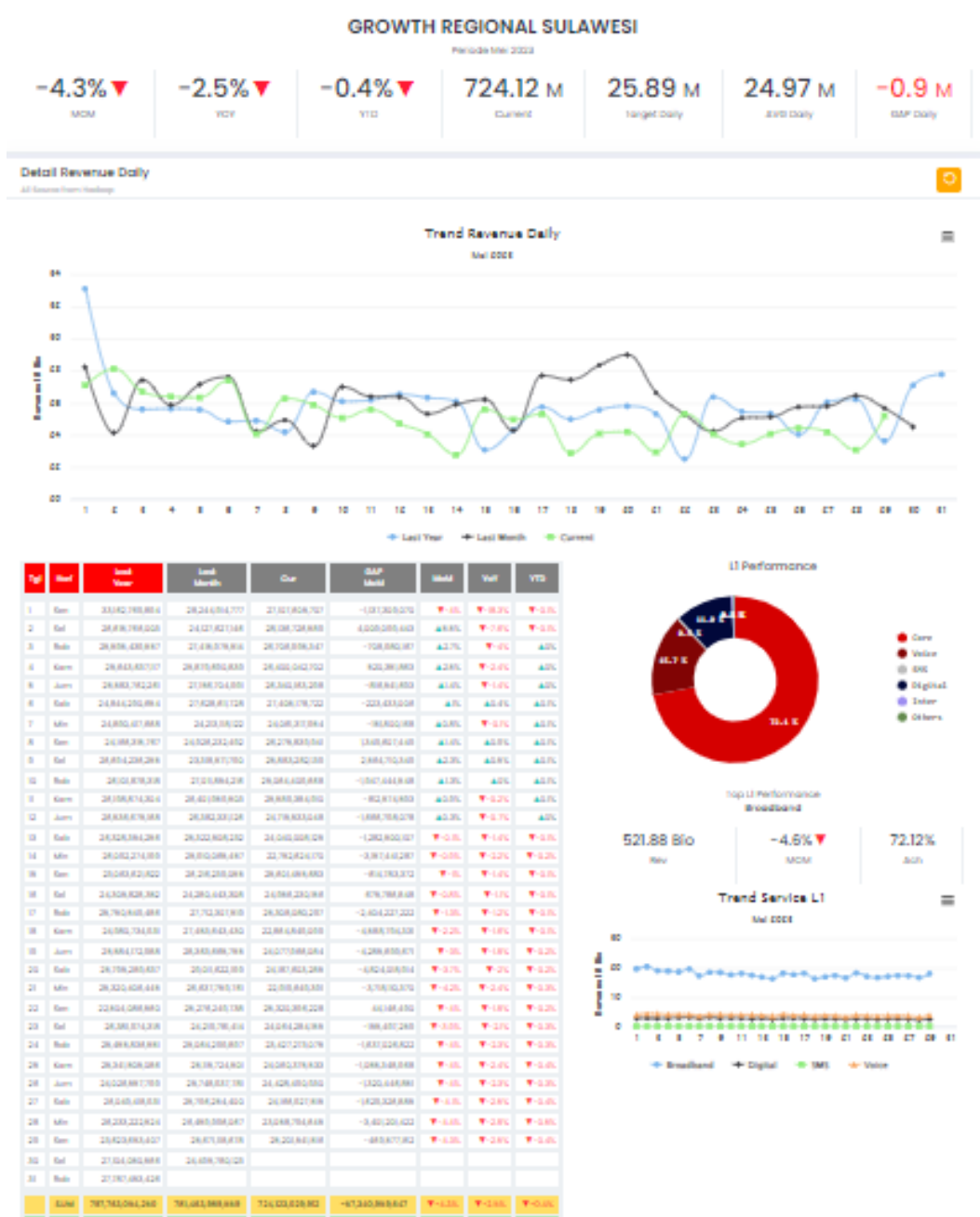
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LAMPIRAN

Lampiran 1 : Hasil load dan visualisasi revenue all



Lampiran 2 : Hasil load dan visualisasi revenue level per product

Dashboard

REPORT SULAWESI

Revenue

- National Revenue
- All Services
- New VS Eksisting Rev
- Daily Revenue
- RGB
- Digital
- DLS
- Fundamentals
- WAM
- SATE

All Services

All source data from Hadoop

Source
Refresh

REGIONAL	All				Voice				Broadband				Digital				Digital
	Cur	% MoM	% YoY	% YTD	Cur	% MoM	% YoY	% YTD	Cur	% MoM	% YoY	% YTD	Cur	% MoM	% YoY	% YTD	% Contr
KALIMANTAN	637.9	▼-4.6%	▼-1.3%	▲1.9%	66.3	▼-4.1%	▼-26%	▼-24.2%	500.6	▼-4.1%	▲9%	▲11.8%	61.8	▼-12.6%	▼-29.6%	▼-21%	9.7
BALINUSRA	382.1	▼-0.3%	▲3.7%	▲1.6%	46	▲3.4%	▼-12.3%	▼-14.8%	288.4	▼-0.3%	▲8.4%	▲5.6%	41.3	▼-5.8%	▼-8.1%	▼-4.2%	10.8
PUMA	311.6	▼-4.9%	▲1.5%	▲0.9%	49.9	▼-4.3%	▼-22.7%	▼-22.5%	208.8	▼-4.5%	▲16.1%	▲11.7%	50	▼-8.7%	▼-13.4%	▼-4.6%	16
CENTRAL JABOTABEK	349.7	▲2.1%	▲4.9%	▼-0.1%	23.6	▲5.3%	▼-25.1%	▼-31.2%	278.7	▲2.7%	▲10.9%	▲4.1%	33.7	▼-2.2%	▼-16.4%	▼-14.3%	9.7
SULAWESI	724.1	▼-4.3%	▼-2.5%	▼-0.4%	113.4	▼-0.9%	▼-14.6%	▼-15.6%	521.9	▼-4.6%	▲6.7%	▲7.4%	79.8	▼-10%	▼-29.4%	▼-18.7%	11
SUMBAGUT	735.1	▼-4.8%	▼-5.3%	▼-0.5%	96.3	▲0%	▼-20.5%	▼-19.9%	556.5	▼-5.1%	▲2.9%	▲9.2%	72.6	▼-10.8%	▼-31.4%	▼-25.5%	9.9
SUMBAGTENG	695	▼-6%	▼-3.7%	▼-0.8%	80.7	▼-1.1%	▼-20%	▼-19.5%	521.3	▼-6.7%	▲1.3%	▲5.4%	81.9	▼-10.5%	▼-17.1%	▼-15%	11.8
JATENG	567.1	▼-6.9%	▼-8.8%	▼-1.2%	38.3	▼-1.8%	▼-37.7%	▼-34.4%	473.9	▼-8%	▼-6.1%	▲3.5%	45.3	▼-6.9%	▼-4.2%	▼-4%	8
SUMBAGSEL	724.3	▼-6.8%	▼-5.2%	▼-1.7%	86.5	▼-2%	▼-26.9%	▼-25.7%	555	▼-7.9%	▲1%	▲6%	74.5	▼-6.9%	▼-15.2%	▼-15.4%	10.3
WESTERN JABOTABEK	259.1	▼-1.9%	▲0.2%	▼-1.8%	16	▲2.8%	▼-24.2%	▼-30.6%	208.4	▼-2%	▲4.8%	▲1.3%	23.7	▼-4.2%	▼-17.4%	▼-18.1%	9.2
JABAR	464.2	▼-8.1%	▼-8.2%	▼-2.2%	29.5	▼-2.9%	▼-38.3%	▼-35.8%	390.8	▼-8.9%	▼-3.5%	▲3.5%	35.2	▼-14%	▼-24.4%	▼-15.9%	7.6
EASTERN JABOTABEK	403	▼-0.6%	▼-1.9%	▼-4.7%	19.7	▲2.7%	▼-31.3%	▼-34.4%	337.4	▼-1.8%	▲0.2%	▼-1.6%	34.8	▼-2.4%	▼-12.5%	▼-19%	8.6
JATIM	580.2	▼-5.2%	▼-12%	▼-7.7%	66.4	▲2.1%	▼-30.1%	▼-29.2%	438.4	▼-5.5%	▼-7.5%	▼-2.5%	63.9	▼-13%	▼-20.8%	▼-14.9%	11
AREA 4	1673.7	▼-4.6%	▼-1.3%	▲0.7%	229.5	▼-2.6%	▼-20%	▼-19.9%	1231.2	▼-4.3%	▲9.1%	▲9.9%	191.6	▼-10.5%	▼-25.9%	▼-16.3%	11.5
AREA 1	2154.4	▼-5.9%	▼-4.8%	▼-1%	263.5	▼-1%	▼-22.6%	▼-21.8%	1632.8	▼-6.6%	▲1.7%	▲6.8%	229	▼-9.4%	▼-21.7%	▼-19%	10.6
AREA 2	1476	▼-2.7%	▼-2.1%	▼-2.4%	88.8	▲1.4%	▼-31.2%	▼-33.4%	1215.3	▼-3.3%	▲2%	▲1.8%	127.5	▼-6.2%	▼-18%	▼-16.7%	8.6
AREA 3	1529.5	▼-4.7%	▼-7.3%	▼-3.2%	150.7	▲1.4%	▼-27.9%	▼-27.1%	1200.8	▼-5.4%	▼-3.5%	▲1.7%	150.5	▼-9.3%	▼-12.9%	▼-9.2%	9.8
NASIONAL	6833.7	▼-4.6%	▼-4%	▼-1.4%	732.5	▼-0.7%	▼-24.1%	▼-24%	5280.2	▼-5%	▲2.1%	▲5.1%	698.6	▼-9.1%	▼-20.6%	▼-15.9%	10.2

Lampiran 5 : Hasil load dan visualisasi infiltrasi

Branch
Sub branch
Cluster
Kota/Kabupaten

Semua Branch
Semua Subbranch
Semua Cluster
Semua Kota Kabupaten

Inject to Consume
Source

All source data from Hadoop

Month Inject	Month Consume															Not Consumed	Total Inject
	Apr 2022	Mei 2022	Jun 2022	Jul 2022	Agu 2022	Sep 2022	Okt 2022	Nov 2022	Des 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023	Mei 2023			
Apr 2022	1,444,241	1,998,004	785,365	444,368	142,879	0	0	0	0	0	0	0	0	0	0	103,876	4,898,733
Mei 2022	0	892,426	1,718,741	1,179,697	543,964	171,449	1	0	0	0	0	0	0	0	0	105,653	4,611,931
Jun 2022	0	0	596,195	1,640,191	1,388,690	628,877	171,512	0	0	0	0	0	0	0	0	133,575	4,538,040
Jul 2022	0	0	0	363,518	655,310	196,475	119,340	43,352	720	0	0	0	0	0	0	23,221	1,401,936
Agu 2022	0	0	0	0	951,559	1,232,842	172,453	17,728	2,905	0	0	0	0	0	0	27,697	2,405,184
Sep 2022	0	0	0	0	0	1,378,634	1,322,266	111,977	21,464	3,356	0	0	0	0	0	30,105	2,867,802
Okt 2022	0	0	0	0	0	0	1,869,921	1,837,428	288,302	44,842	0	0	0	0	0	48,885	4,102,169
Nov 2022	0	0	0	0	0	0	0	1,510,776	2,028,091	409,550	20,843	20,843	0	0	0	50,079	4,097,275
Des 2022	0	0	0	0	0	0	0	0	1,412,690	2,176,579	311,657	311,657	50,534	0	85,241	4,886,101	
Jan 2023	0	0	0	0	0	0	0	0	0	908,224	756,056	756,056	213,698	37,340	47,250	3,473,062	
Feb 2023	0	0	0	0	0	0	0	0	0	0	1,424,018	1,424,018	546,731	116,787	68,718	2,874,363	
Mar 2023	0	0	0	0	0	0	0	0	0	0	1,084,248	1,084,248	1,502,538	322,189	148,496	3,057,481	
Apr 2023	0	0	0	0	0	0	0	0	0	0	0	1,304,238	1,398,424	259,212	2,961,875		
Mei 2023	0	0	0	0	0	0	0	0	0	0	0	0	1,436,052	1,585,485	3,021,537		
Total	1,444,241	2,890,430	3,079,301	3,627,774	3,662,402	3,608,277	3,655,493	3,521,263	3,754,172	3,542,551	3,596,822	3,596,822	3,617,740	3,309,802	2,717,493	49,197,489	

Lampiran 6 : Hasil load dan visualisasi digital perservice

Tanggal
Division

2023-05-13
ALL DLS **Digital Music** Games Marketplace VAS Content Video

Regional
SERVICES

SULAWESI
LAST M RGB LAST M TRX LAST M REV LAST M FM TRX LAST M FM REV CURR RGB CURR TRX CURR REV MOM RGB MOM TRX

Branch
all service

GORONTALO

KENDARI

MAKASSAR

MANADO

PALU

PARE-PARE

Content RBT

Cluster
organic service

KENDARI

MANADO RAYA

BONE BULUKUMBA

EWAKO

PARE MAJENE

Luwuk Banggai

PALU MAMUJU

MINAHASA TALAUD

GORONTALO

GOWA

TERNATE

BARRU MAROS

WAKATOBI

KOTA MAKASSAR

Langit Musik Premium 3 Days

Kota/Kabupaten
Spotify

Semua Kota Kabupaten
Scribd

all service
283,906 373,078 1,608,834,846 830,524 3,582,781,255 287,785 361,738 1,563,434,270 -2.1% -3%

Content RBT
260,392 319,663 1,303,558,005 708,496 2,880,057,001 259,736 317,311 1,281,450,786 -0.2% -0.7%

organic service
35,046 53,415 305,276,841 122,028 702,724,254 29,249 44,427 281,983,484 -16.5% -16.8%

Langit Musik Premium 3 Days
29,499 45,164 179,028,484 103,163 408,934,405 23,046 36,345 144,070,267 -21.9% -19.5%

Spotify
1,843 2,080 56,063,696 5,120 143,809,847 1,995 2,199 70,023,800 8.2% 5.7%

Scribd
336 337 21,252,247 673 42,441,430 415 417 26,297,292 23.5% 23.7%

Paket Musicmax Charge 1
490 523 11,652,253 1,145 25,666,668 398 418 9,463,063 -18.8% -20.1%

MusicMax
593 629 11,333,333 1,312 23,639,640 411 433 7,801,802 -30.7% -31.2%

TSEL_XRACADEMY
1,219 1,219 6,040,091 2,453 12,154,508 1,514 1,547 7,665,318 24.2% 26.9%

UPOINTMUSIC
217 812 13,396,750 1,704 26,094,951 193 562 7,221,000 -11.1% -30.8%

LangitMusik Unlimited
59 59 1139,279 997 9,211,532 798 858 5,656,576 125.5% 1354.2%

TSEL_PANTURA
1,129 2,360 2,368,000 5,021 5,034,000 780 1,491 1,498,000 -30.9% -36.8%

TSEL_VISIONPLUS
25 30 1166,667 60 2,279,280 27 33 896,487 8% 10%

Joox_DCB
27 27 1,278,645 49 2,321,094 17 17 757,662 -37% -37%

TINDER
4 4 116,315 9 259,459 5 5 144,144 25% 25%

TSEL_HUNGAMA
21 30 60,000 75 150,000 35 43 86,000 66.7% 43.3%

TSEL_OrfordL
81 107 212,072 172 340,901 22 30 59,459 -72.8% -72%

MUSICMAX JOOX
1 1 28,829 2 57,658 2 2 57,658 100% 100%

TSEL_SMULE
1 1 26,126 3 78,378 2 2 52,252 100% 100%

Kompos
0 0 0 0 0 0 1 1 49,550 100% 100%

TSEL_GTUNES
16 21 42,000 43 86,000 15 20 40,000 -6.2% -4.8%

TSEL_LANGITMUSK
10 11 72,072 27 164,505 3 3 27,027 -70% -72.7%

TSEL_MUSLIMKIDS
0 0 0 0 0 0 1 1 26,126 100% 100%

Lampiran 7 : Hasil load dan visualisasi tracking top Apps

Tracking Top VOD Apps



Operational Subtotal	LAST M FM Rgb	LAST M FM Trc	LAST M FM Rev	LAST M Rgb	LAST M Trc	LAST M Rev	CURR Rgb	CURR Trc	CURR Rev	MOM Rgb	MOM Trc	MOM Rev
CLUSTER GORONTALO	139,890	176,473	417,243,381	74,554	84,469	197,987,319	74,971	83,935	194,220,980	0.0%	0.0%	1.9%
CLUSTER PAHLAWATO	179,395	259,395	569,532,632	99,222	120,828	283,963,346	98,006	117,476	256,602,308	1.2%	-2.8%	-2.8%
CLUSTER KENDARI	529,896	734,490	1,784,267,134	304,283	363,821	877,325,229	290,859	343,883	829,167,477	-4.4%	-5.7%	-5.5%
CLUSTER KOLAKA	176,038	251,405	589,231,008	98,260	111,500	275,765,393	95,585	113,590	265,025,520	1.7%	-4.8%	-3.3%
CLUSTER WAKATOBİ	436,712	626,424	1,450,698,108	233,597	280,384	646,337,855	235,498	279,239	644,977,853	1.2%	0.4%	0.2%
CLUSTER BARRU MAROG	181,503	238,838	533,998,470	101,769	117,398	281,545,948	80,524	125,082	277,474,429	0.6%	6.5%	6.8%
CLUSTER BONE	186,530	267,268	603,992,053	100,589	122,017	277,921,521	100,900	121,310	277,026,743	0.3%	0.6%	-0.3%
CLUSTER BULKUMBA	180,037	249,840	573,448,032	100,592	118,324	276,520,541	104,085	120,996	277,142,688	3.5%	1.6%	2.8%
CLUSTER GOWA	203,012	268,298	684,392,532	110,982	129,473	280,620,386	115,241	131,998	287,201,133	3.9%	1.9%	2.4%
CLUSTER KOTA MAKASSAR	420,853	540,482	1,350,834,729	244,309	282,400	696,751,248	230,282	280,580	640,423,273	-5.7%	-7.7%	0.8%
CLUSTER WALJO SOPENG	168,073	218,022	505,472,685	74,242	90,405	206,292,323	77,038	90,797	206,487,908	3.8%	0.4%	1.8%
CLUSTER BITUNG MINAHASA	230,371	331,717	867,161,805	132,004	161,255	322,538,557	138,313	156,705	311,145,163	-2.8%	-2.8%	-3.5%
CLUSTER BOLAANG MONGONDOW	170,207	253,508	509,564,228	96,054	119,117	238,282,614	91,676	112,500	224,481,999	-4.6%	-5.5%	-5.8%
CLUSTER HALIMHERA MOROTAI	164,096	234,064	553,307,067	89,482	111,544	259,219,553	85,969	105,444	247,804,895	-3.9%	-5.8%	-4.4%
CLUSTER HALIMHERA TIDORE	248,040	335,079	821,378,188	144,580	165,967	405,772,852	138,981	159,037	388,089,250	-3.0%	-4.8%	-4.4%
CLUSTER MANADO TALAUD	273,950	401,940	974,018,048	158,897	195,883	458,703,851	157,424	198,932	461,007,850	0.9%	-2%	0.5%
CLUSTER TERNATE	120,351	168,832	433,032,273	67,784	82,057	205,186,358	62,907	74,830	187,403,233	-7.2%	0.7%	-8.0%
CLUSTER BANGGAI	273,445	420,505	966,591,098	151,701	192,522	437,932,033	149,329	186,665	425,281,572	-1.6%	-2%	-2.3%
CLUSTER MOROWALI	274,767	379,078	936,528,433	172,621	197,808	483,356,534	164,745	188,205	480,580,576	-4.6%	-5.5%	-4.7%
CLUSTER PALU DONGGALA	236,964	325,508	854,030,035	130,853	158,940	378,234,018	130,490	156,438	378,472,230	0.3%	1.6%	1.8%
CLUSTER PANGI TOU	193,630	256,383	551,878,272	87,855	111,700	243,968,851	84,522	106,448	231,958,890	-3%	-4.7%	-4.5%
CLUSTER POSO SIGI	178,888	256,798	603,992,388	101,325	122,388	284,480,883	98,673	117,395	275,802,744	-2.6%	-3.9%	-3.3%
CLUSTER UMMU PALOPO	321,258	495,637	1,075,058,935	176,853	212,681	498,164,005	171,970	202,002	473,499,694	-2.6%	-5.8%	-5.9%
CLUSTER MAMAJU MAJENE	268,184	387,752	859,353,283	148,498	182,050	399,329,484	150,333	179,573	399,081,242	0.6%	1.4%	0.8%
CLUSTER PARE SIDRAP	179,352	242,757	550,495,648	89,091	106,331	237,899,022	92,057	107,047	240,785,080	3.2%	0.7%	1.2%
CLUSTER TORAJA	230,776	300,519	724,504,833	128,276	149,544	348,638,177	124,281	140,490	338,534,003	-3.1%	-3.5%	-3.5%

Tanggal

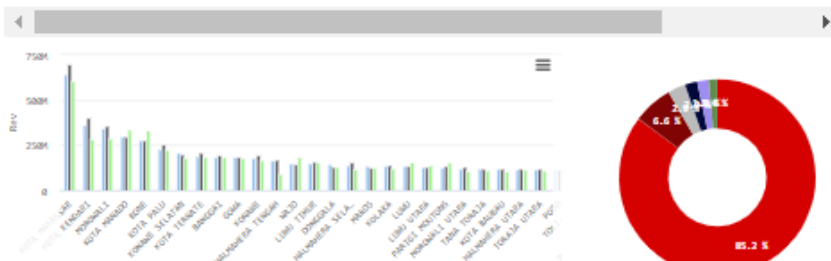
2023-05-13

Branch

GORONTALO	KENDARI
MAKASSAR	MANADO
PALU	PARE-PARE

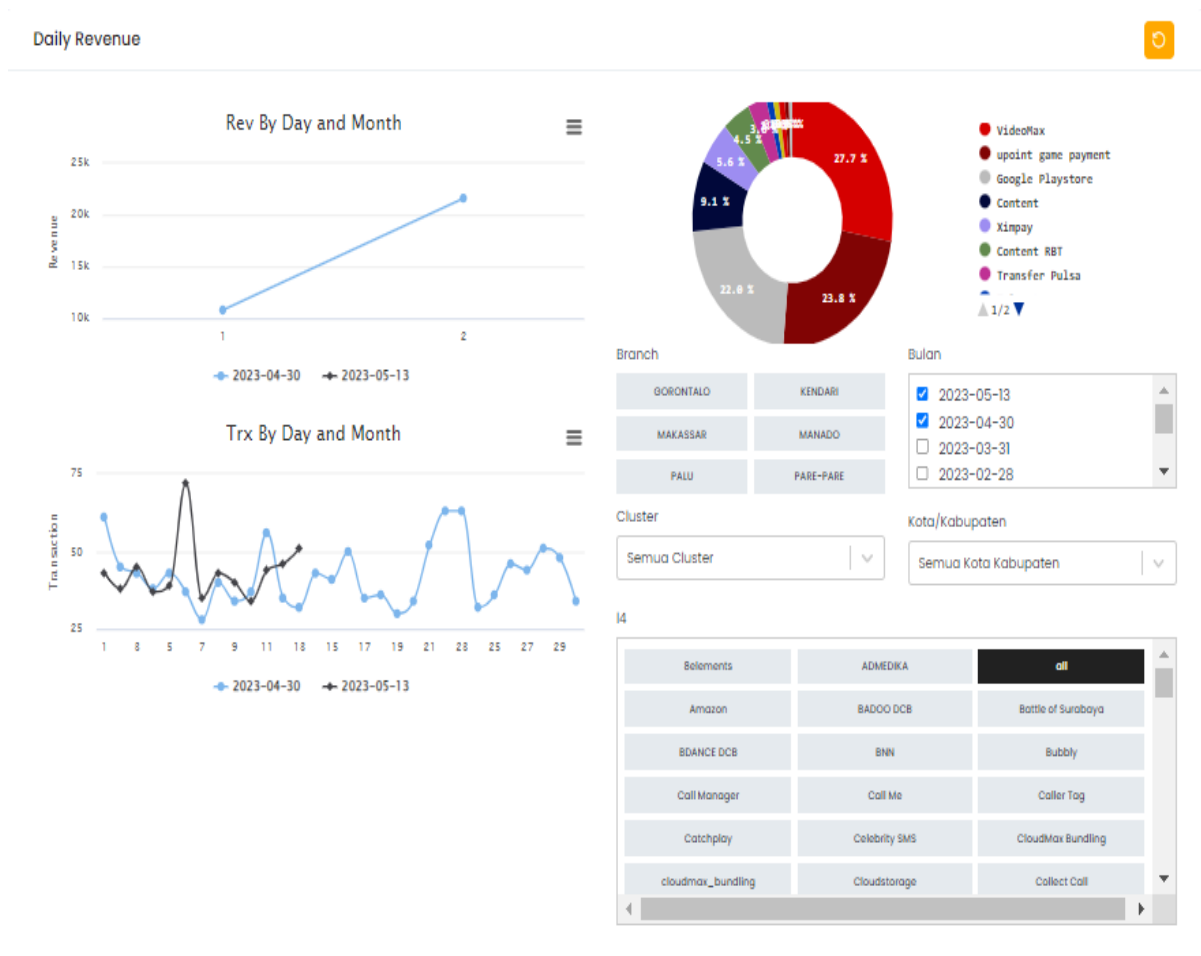
Services

videomax	organic service
videomax_weekly	GigaMax
NKIOS GigaMAX Charge 1	Paket Maxstream Entertainment Charge 1

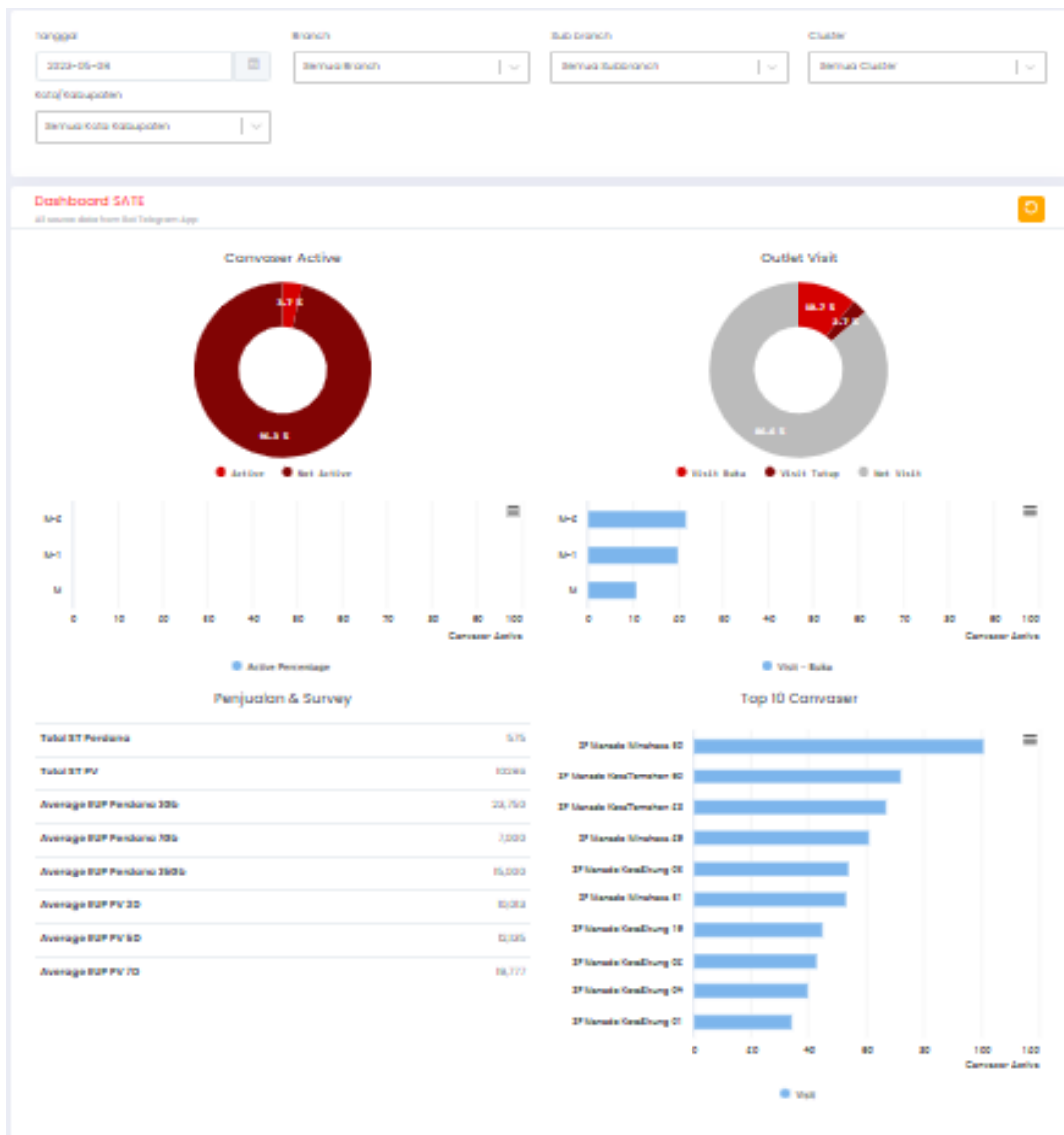


- VideoMax
- organic service
- videomax_weekly
- GigaMax
- NKIOS GigaMAX Charge 1
- Paket Maxstream Entertainment Charge 1

Lampiran 8 : Hasil load dan visualisasi revenue perhari



Lampiran 9 : Hasil load dan visualisasi kontribusi sales



Lampiran 9 : Hasil load dan visualisasi dari perbandingan revenue

MoM Omset	MoM Renewal	MoM CVM	MoM Voice	MoM Games	MoM Sellthru	MoM Sellout	MoM Sellthru VF	MoM Sellout VF						
0.8%	-11.0%	-4.3%	2.2%	-24.4%	187.1%	80.6%	887.1%	849.0%						
outlet_id	namaoutlet	branch	cluster	kabupaten	no_rs	cur_rev_omset	cur_rev_renewal	cur_rev_cvm	cur_rev_games	cur_rev_voice	cur_rev_sellthru	cur_rev_sellout	cur_rev_sellthru_vf	cur_rev_sellout_vf
700004439	Nike Yulinda Winokan	MANADO	BOLAANG MONGGONDOW	MINAHASA SELATAN	85298422003	0	0	0	0	0	0	0	0	0
700004441	neymaky edieih	GORONTALO	PAJLIWATO	GORONTALO UTARA	82374203981	0	0	0	0	0	0	0	0	0
700004445	carra rizal	FARE FARE	LUWU PALOPO	LUWU TIMUR	82246544177	0	0	0	0	0	0	0	0	0
700004454	Rahmatfanti F	FARE FARE	LUWU PALOPO	LUWU UTARA	8041022539	0	0	0	0	0	0	0	0	0
700004470	mulyanto	MANADO	BITUNG MINAHASA	MINAHASA UTARA	80258223445	0	0	0	0	0	0	0	0	0
700004475	Muhammad Tina Anggoro	KENDARI	KOLAKA	KOLAKA UTARA	80228505343	0	0	0	0	0	0	0	0	0
700004518	NURLINA	FARE FARE	TORAJA	DNECKANG	82254803438	0	0	0	0	0	0	0	0	0
700004529	SAMSAR	KENDARI	WAKATOBI	BUTON SELATAN	80665277054	0	0	0	0	0	0	0	0	0
700004533	sahara	FARE FARE	MAMJU MAJINE	POLEWALI MANDAR	80348028802	0	0	0	0	0	0	0	0	0
700004541	Fadlan	GORONTALO	PAJLIWATO	BOALEMO	8042863338	0	0	0	0	0	0	0	0	0
700004547	Syamsul Ali Iman	FARE FARE	MAMJU MAJINE	MAMASA	85358102889	0	0	0	0	0	0	0	0	0
700004554	Sri Ayu Ningel	KENDARI	KENDARI	KONWIT SELATAN	85244322981	0	0	0	0	0	0	0	0	0
700004557	LACTE	KENDARI	WAKATOBI	BUTON TENGAH	85348608090	0	0	0	0	0	0	0	0	0
700004570	NUR FITRAHWATI	FARE FARE	LUWU PALOPO	LUWU TIMUR	82250447547	0	0	0	0	0	0	0	0	0
700004579	ARIZKI CELL	MAKASSAR	GOWA	GOWA	82349202348	0	0	0	0	0	0	0	0	0
700004585	olisa guttiawati	KENDARI	KOLAKA	KOLAKA	82340340212	0	0	0	0	0	0	0	0	0
700004593	wahyu jumadi	PALU	POSO SIGI	SIGI	82250818628	0	0	0	0	0	0	0	0	0
700004595	Ilietris	KENDARI	KENDARI	KOTA KENDARI	8042075819	0	0	0	0	0	0	0	0	0
700004600	Andi Ihan	MAKASSAR	BARRU MAROS	PANGKAJENE DAN KEPULAUAN	806888881	0	0	0	0	0	0	0	0	0
700004601	Achmad Fadh Saputra	KENDARI	KENDARI	KOTA KENDARI	82399359829	0	0	0	0	0	0	0	0	0
700004604	Andi Ihan	MAKASSAR	BARRU MAROS	PANGKAJENE DAN KEPULAUAN	85342309123	0	0	0	0	0	0	0	0	0
700004605	Vemal Iangelo	MANADO	BOLAANG MONGGONDOW	MINAHASA SELATAN	8087869293	0	0	0	0	0	0	0	0	0
700004607	nur	MAKASSAR	BARRU MAROS	MAROS	80253704856	0	0	0	0	0	0	0	0	0
700004610	Ilsarin	KENDARI	WAKATOBI	BUTON	8042305007	0	0	0	0	0	0	0	0	0
700004613	Israwati	KENDARI	KENDARI	KONWIT	8229222871	0	0	0	0	0	0	0	0	0
700004622	Yulianti siringer	KENDARI	KOLAKA	KOLAKA	80392642388	0	0	0	0	0	0	0	0	0
700004638	Irawati	MAKASSAR	GOWA	TAKALAR	85398908874	0	0	0	0	0	0	0	0	0
700004643	ARIZKI CELL	MAKASSAR	GOWA	GOWA	82349202349	0	0	0	0	0	0	0	0	0
700004647	Istiaia	KENDARI	KENDARI	KONWIT SELATAN	804891952	0	0	0	0	0	0	0	0	0
700004650	ARMAN M HAMID	GORONTALO	PAJLIWATO	BUOL	82238737274	0	0	0	0	0	0	0	0	0
700004650	IRFAN MANSUR	MAKASSAR	BULUKUMBA	BANTAENG	82213382400	0	0	0	0	0	0	0	0	0
700004653	Fitman M	PALU	BANGGAI	TOJO UNA UNA	82235532477	0	0	0	0	0	0	0	0	0
700004671	suwardi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	8047472900	0	0	0	0	0	0	0	0	0
700004680	Muh Iman Manayur	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	8044628987	0	0	0	0	0	0	0	0	0
700004687	elie	PALU	MOROWALI	MOROWALI	8239608471	0	0	0	0	0	0	0	0	0
700004705	OLVI BAGENDAHUM	MANADO	BITUNG MINAHASA	MINAHASA UTARA	82394758879	0	0	0	0	0	0	0	0	0
700004705	ocho cell	PALU	PARIGI TOLI	TOLI TOLI	8223029188	0	0	0	0	0	0	0	0	0
700004730	almat cell	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	85313555186	0	0	0	0	0	0	0	0	0
700004740	maratademopay	MANADO	MANADO TAJALUD	KOTA MANADO	85398721123	0	0	0	0	0	0	0	0	0

Lampiran 10 : Hasil load data ke data warehouse

Name	Auto Increm...	Modified Date	Data Length	Rows	Comment
_source_mytsel_mtd	0	2021-11-08 22:43:53	995070 KB	8045083	
chart_summary_revenue_category	0	2021-04-02 16:25:38	527 KB	2114	
master_new_productive_202304	0	2023-05-04 13:08:44	45343 KB	233942	
migrations	3		16 KB	2	
nsb_all_region	0	2020-07-12 19:57:44	197 KB	7081	
password_resets	0		16 KB	0	
recharge_channel_type	0	2020-11-12 22:52:07	2 KB	30	
recharge_channel_type_monthly_sulawesi	0	2022-06-26 23:46:39	0 KB	0	
recharge_daily	0	2021-08-16 10:06:59	720 KB	5138	
recharge_top5_daily_sulawesi	0	2021-08-16 10:06:59	4650 KB	60932	
ref_area	0	2021-04-28 14:18:04	1 KB	14	
ref_area_by_region	0	2021-07-03 12:38:10	1 KB	13	
ref_bulan	0	2022-09-01 08:52:56	1 KB	12	
ref_digital_games_content_id	0	2022-07-12 09:35:41	2 KB	42	
ref_digital_landscape	0	2022-03-14 00:16:15	16 KB	13	
ref_hari	0	2020-09-01 20:08:41	1 KB	31	
ref_kota_fua_fotress_wcc	0	2021-09-26 11:12:52	3 KB	91	
ref_new_site	0	2022-07-12 09:36:05	64 KB	1071	
ref_oua_outlet	0	2022-05-15 09:11:58	12416 KB	91862	
ref_operasional	0	2022-07-22 09:33:50	71 KB	1302	
ref_operasional_nasional_city	0	2020-03-24 15:58:00	29 KB	625	
ref_outlet_pjp	0	2022-05-24 13:14:26	408 KB	20866	
ref_revenue_l4	0	2021-02-26 06:56:05	130 KB	1912	
ref_site_sulawesi_desiqa	0	2022-07-12 13:56:55	81779 KB	138528	
ref_voice_package_content_id	0	2023-03-25 10:04:34	12 KB	250	
report_excel	0	2020-03-17 16:03:24	1 KB	25	
report_update_date	0	2020-09-10 09:01:21	1 KB	18	

Lampiran 11 : sample data dalam tabel di data warehouse

level	region_lacci	branch	cluster_lacci	kabupaten	kecamatan	dominan_revenue
region	12.Sulawesi	MANADO	HALMAHERA TIDORE	HALMAHERA TENGAH	WEDA TENGAH	Digital Services
region	12.Sulawesi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	BIRINGKANAYA	SMS
region	12.Sulawesi	PALU	PALU DONGGALA	KOTA PALU	PALU TIMUR	Voice
region	12.Sulawesi	MANADO	BITUNG MINAHASA	MINAHASA UTARA	AIRMADIDI	Digital Services
region	12.Sulawesi	MANADO	MANADO TALAUD	KOTA MANADO	WENANG	NULL
region	12.Sulawesi	PARE-PARE	TORAJA	TORAJA UTARA	RANTEPAO	Others
region	12.Sulawesi	MANADO	BITUNG MINAHASA	MINAHASA UTARA	DIMEMBE	Digital Services
region	12.Sulawesi	PARE-PARE	LUWU PALOPO	LUWU TIMUR	NUHA	Digital Services
region	12.Sulawesi	KENDARI	KENDARI	KOTA KENDARI	KENDARI BARAT	Broadband
region	12.Sulawesi	PARE-PARE	LUWU PALOPO	LUWU	BELOPA UTARA	Digital Services
region	12.Sulawesi	PARE-PARE	MAMUJU MAJENE	POLEWALI MANDAR	CAMPALAGIAN	Voice
region	12.Sulawesi	PALU	MOROWALI	MOROWALI	BUNGKU TIMUR	Digital Services
region	12.Sulawesi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	RAPPOCINI	Digital Services
region	12.Sulawesi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	TAMALATE	Digital Services
region	12.Sulawesi	MANADO	HALMAHERA TIDORE	KOTA TIDORE KEPULAUAN	TIDORE	Voice
region	12.Sulawesi	PARE-PARE	MAMUJU MAJENE	POLEWALI MANDAR	WONOMULYO	Digital Services
region	12.Sulawesi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	MANGGALA	Digital Services
region	12.Sulawesi	MANADO	BITUNG MINAHASA	KOTA BITUNG	MADIDIR	NULL
region	12.Sulawesi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	MANGGALA	Voice
region	12.Sulawesi	PALU	MOROWALI	MOROWALI	BAHODDPOI	Voice
region	12.Sulawesi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	RAPPOCINI	Digital Services
region	12.Sulawesi	MAKASSAR	KOTA MAKASSAR	KOTA MAKASSAR	TAMALATE	Digital Services
region	12.Sulawesi	PALU	PARIGI TOLI	TOLI-TOLI	LAMPASIO	Digital Services
region	12.Sulawesi	GORONTALO	GORONTALO	GORONTALO	TOLANGOHULA	Voice



SURAT KEPUTUSAN

DEKAN FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN

NOMOR : 5946 JUN.4.7.1/TD. 06 /2022

TENTANG

PENGANGKATAN KOMISI PENASEHAT TESIS BAGI MAHASISWA PROGRAM MAGISTER
TEKNIK INFORMATIKA DEPARTEMEN INFORMATIKA FAKULTAS TEKNIK
UNIVERSITAS HASANUDDIN

DEKAN FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN

- Membaca : Surat usulan Ketua Program Studi S2 Teknik Informatika Nomor: 5929 tanggal 25 Maret 2022 perihal Usulan Komisi Penasehat dan Rencana Judul Tesis bagi Sdr. Suriansyah
- Menimbang : a. Bahwa dalam rangka pelaksanaan bimbingan Tesis bagi Sdr. **Suriansyah** Nomor Pokok **D082202025** mahasiswa Program Magister Informatika Departemen Teknik Informatika Fakultas Teknik Universitas Hasanuddin, dipandang perlu mengangkat Komisi Penasehat Tesis;
b. bahwa untuk keperluan huruf (a) di atas, maka dipandang perlu menerbitkan Surat Keputusan.
- Mengingat : 1. Keputusan Rektor UNHAS No. 7343/J04/P/2001
2. Keputusan Rektor UNHAS No. 1067/J04/P/2003
3. Keputusan Rektor UNHAS No. 824/H4/P/2007

MEMUTUSKAN

- Menetapkan : KEPUTUSAN DEKAN FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN TENTANG PENGANGKATAN KOMISI PENASEHAT TESIS BAGI MAHASISWA PROGRAM MAGISTER TEKNIK INFORMATIKA DEPARTEMEN TEKNIK INFORMATIKA FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN. A.N : Suriansyah NOMOR POKOK D082202025
- PERTAMA : Mengangkat Komisi Penasehat Tesis bagi Sdr. Suriansyah Nomor Pokok D082202025 mahasiswa Program Magister Teknik Informatika Departemen Teknik Informatika Fakultas Teknik Universitas Hasanuddin
Judul : **"Optimasi Arsitektur Gudang Data untuk Meningkatkan Performansi Sistem Informasi"**
Dengan susunan sebagai berikut :
1. Penasehat Utama : Dr. Ir. Amil Ahmad Ilham, ST., M.IT (Pemb. I)
2. Penasehat Anggota : Dr. Eng. Ady Wahyudi Paundu, ST., MT (Pemb.II)
- KEDUA : Belanja Vakasi/ honorium sebahaimana dimaksud pada diktum pertama, dibebankan pada Dana DPA PTNBH UNHAS Tahun 2022 (BPPS, dan DIKTI) Alokasi Fakultas Teknik.
- KETIGA : Surat Keputusan ini berlaku terhitung mulai tanggal ditetapkan sampai dengan selesainya masa studi yang bersangkutan, dengan ketentuan apabila dikemudian hari ternyata terdapat kesalahan atau kekeliruan didalamnya, akan diadakan perbaikan sebagaimana mestinya.

Ditetapkan di Makassar,
Pada tanggal 25 Maret 2022
a.n. Dekan,
Wakil Dekan Bidang Akademik Riset dan Inovasi

Prof. Ir. Baharuddin Hamzah, ST, M.Arch, Ph.D
Nip. 19690308 199512 1 001

Tembusan Yth :

1. Dekan FT-UH
2. Wakil Dekan II FT-UH
3. Ketua Program Studi S2 Teknik Informatika
4. Sdr. Suriansyah
5. Arsip

