

DATABASE DESIGN KELOMPOK 7



**IVESS**  
HEALTH INSURANCE  
NORMALISASI DATABASE

[WWW.IVESS.COM](http://WWW.IVESS.COM)

# THE TEAM



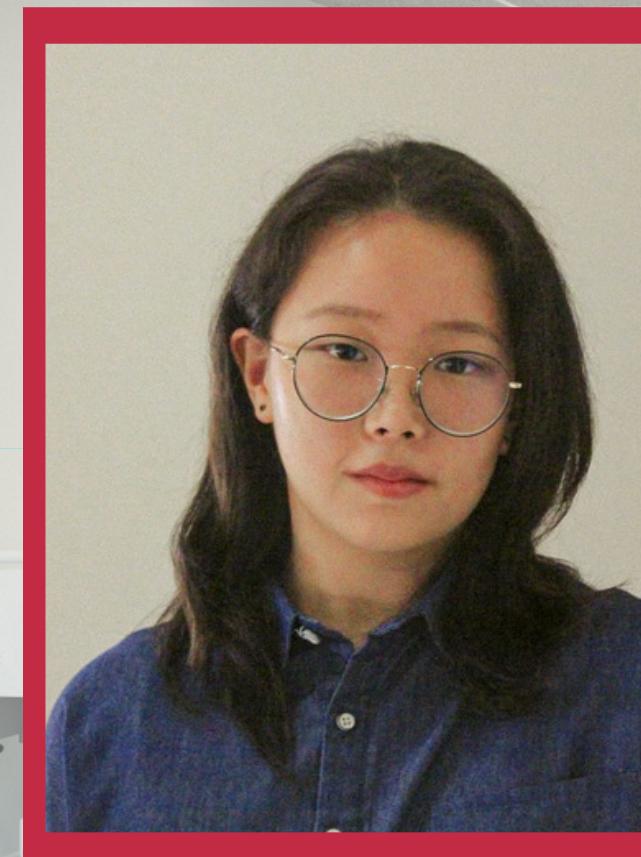
**2602152515**

Ratu Faradiba  
Adiazahra



**2602108760**

Viola



**2602104806**

Diandra Nathania  
Auwlia



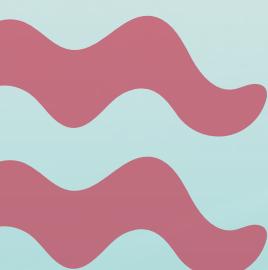
**2602118635**

Evelyne Wijaya



**2602133522**

Batari Cyrilla  
Jagaddhita





# INTRODUCTION

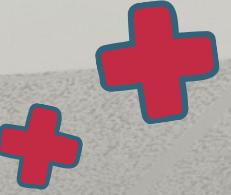


**IVESS**, singkatan dari "**Indonesia Visionary Insurance**" adalah **perusahaan asuransi kesehatan** terkemuka yang berkomitmen untuk memberikan **perlindungan kesehatan** terbaik kepada masyarakat Indonesia. Sejak didirikan pada tahun 2010, IVESS telah menjadi pilihan utama bagi banyak individu dan keluarga yang mengutamakan **kesejahteraan** dan **keamanan kesehatan** mereka.





# LITERATURE REVIEW



**Normalisasi** adalah metode dalam desain logika sebuah basis data yang **mengelompokkan atribut** dari suatu relasi dengan tujuan membentuk struktur relasi yang optimal, **tanpa adanya duplikasi atau redundansi** yang tidak perlu.

**UNF** merupakan jenis **data yang tidak terstruktur** karena terdapat pengulangan kelompok data, yang membuatnya sulit untuk dimanipulasi.

**2NF** untuk **menghilangkan partial dependency** dan bertujuan untuk memisahkan subset data, menciptakan relasi antartabel dengan foreign key, dan menghindari adanya atribut yang bergantung pada primary key.

**BCNF** adalah lanjutan dari bentuk 3NF dengan fokus pada **penanganan anomali** dan overlooping yang tidak dapat ditangani dalam 3NF.

**5NF** memerlukan tabel memenuhi 4NF dan **tidak ada functional dependency** tersebunyi.

**1NF** adalah memastikan **eliminasi duplikasi kolom dalam tabel** dan memisahkan data terkait ke dalam tabel terpisah dengan identifikasi baris menggunakan primary key.

**3NF** menghilangkan atribut yang tidak terkait dengan primary key **menghindari transitive dependency** pada primary key

**4NF** memerlukan tabel untuk memenuhi persyaratan 3NF dan **tidak memiliki atribut multivalued** yang tidak langsung terikat pada primary key.

## RESOURCES:



Normalisasi Database 1NF, 2NF, 3NF, BCNF dan 4NF

Pengertian Normalisasi Normalisasi merupakan sebuah teknik dalam logical desain sebuah basis...

PHPKoNull / Jun 28, 2018



**Anomali** adalah jika **data dalam database belum dinormalisasi**, maka sistem berisiko mengalami tiga masalah **yang dapat merugikan secara keseluruhan**:

**1. INSERT Anomali :** Terjadi ketika tidak memungkinkan untuk menyisipkan beberapa jenis data secara langsung ke dalam basis data.

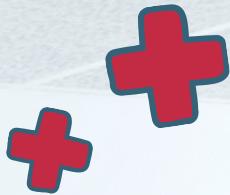
**2. DELETE Anomali :** Terjadi ketika penghapusan data tidak sesuai dengan yang diharapkan, yang berarti data yang seharusnya tidak terhapus mungkin ikut terhapus.

**3. UPDATE Anomali :** Terjadi ketika pembaruan nilai mengakibatkan ketidaksesuaian data dalam basis data, yang artinya data yang diubah tidak sesuai dengan yang diperintahkan atau yang diinginkan.



# NORMALISASI

## UNF



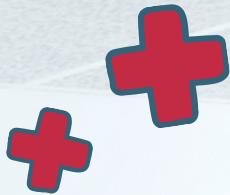
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1984982										
1984983	102	Emily Davis	083738297360	emily.davis@gmail.com	5487102936	CBUS456	Indonesia	Jawa Tengah	Solo	Jalan Slamet Riyadi No. 456
1984984	103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870	PRTL789	Indonesia	Jawa Tengah	Semarang	Jalan Pahlawan No. 789
1984985										
1984986										
1984987	106	Liam Hall	083738297364	liam.hall@gmail.com	4657890321	ATX321	Indonesia	Jawa Timur	Surabaya	Jalan Tunjungan No. 101
1984988	107	Sophia Clark	083738297365	sophia.clark@gmail.com	2389041567	STL654	Indonesia	DKI Jakarta	Jakarta Selatan	Jalan Sudirman No. 234
1984989	108	Olivia Brown	083738297366	olivia.brown@gmail.com	6741298305	DENV987	Indonesia	Banten	Tangerang	Jalan Gatot Subroto No. 345
1984990	109	Mason Martinez	083738297367	mason.martinez@gmail.com	5426701983	BOS234	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Tomang Raya No. 345
1984991	110	Harper Adams	083738297368	harper.adams@gmail.com	6890142573	SFCA567	Indonesia	Jawa Timur	Malang	Jalan Ahmad Yani No. 678
1984992	111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690	MIA890	Indonesia	Jawa Barat	Bogor	Jalan Pajajaran No. 789
1984993										
1984994										
1984995	112	Rara Permata	083738297371	rara.permata@gmail.com	5973618204	PHIL432	Indonesia	Jawa Barat	Bandung	Jalan Dipatiukur No. 101
1984996	113	Dika Wijaya	083738297372	dika.wijaya@gmail.com	1245897063	HSTN765	Indonesia	Jawa Barat	Bekasi	Jalan Ir. H. Juanda No. 121
1984997	114	Isabella Turner	083738297373	isabella.turner@gmail.com	7658902143	CHI098	Indonesia	DKI Jakarta	Jakarta pusat	Jalan MH Thamrin No. 456
1984998										
1984999	115	Budi Santoso	083738297375	budi.santoso@gmail.com	9845623107	LACA876	Indonesia	DKI Jakarta	Jakarta Timur	Jalan MT Haryono No. 789
1985000	116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193	ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789
1985001										
1985002	117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456
1985003										

LINK EXCEL



# NORMALISASI

**UNF**



Service code	Service	Provider ID	Provider name	Transaction Id	Transaction Date	Cost	claim date	Claim Amount	Approval Status
D001	Diseases	H001	Husada Hospital	HU001	16/02/2023	Rp175,000.00	03/02/2023 12:30	Rp86,000.00	Success
IC001	Inpatient Care	H002	UKRIDA Hospital	UK001	20/02/2023	Rp270,000.00		Rp170,000.00	
OC001	Outpatient Care	H003	Pondok Indah Hospital	PI001	16/02/2023	Rp1,000,000.00	18/02/2023 13:00	Rp300,000.00	Success
M001	Medicines	P001	Roxy Pharmacy	R001	28/02/2023	Rp70,000.00	20/02/2023 9:00	Rp0.00	Rejected
M001	Medicines			R002	14/03/2023	Rp55,000.00		Rp16,500.00	Success
S001	Surgeries	H001	Husada Hospital	HU002	18/03/2023	Rp7,300,000.00	20/03/2023 20:00	Rp2,263,000.00	Success
HC001	Health Check Ups	H004	Siloam Hospital	S001	20/03/2023	Rp432,500.00	20/03/2023 18:00	Rp0.00	Rejected
D001	Diseases	H006	Fatmawati Hospital	F001	04/02/2023	Rp234,000.00	5/2/2023 17:00	Rp72,540.00	Success
M001	Medicines							Rp0.00	Rejected
OC001	Outpatient Care	H005	Maypada International Hospital	MI001	02/02/2023	Rp500,000.00	3/3/2023 10:00	Rp155,000.00	Success
M001	Medicines							Rp300,000.00	
MC001	Maternity	H008	Mitra Keluarga Hospital	MK001	04/02/2023	Rp20,000,000.00	8/4/2023 3:00	Rp8,200,000.00	Success
V001	Vaccination	H002	UKRIDA Hospital	UK002	04/12/2023	Rp1,000,000.00	4/12/2023 12:34	Rp0.00	Rejected
S001	Surgeries	H009	Pelni Hospital	P001	03/03/2023	Rp5,000,000.00	30/03/2023 16:21	Rp2,050,000.00	Success
RR001	Recovery and Rehabilitation							Rp1,500,000.00	
HC001	Health Check Ups	H003	Pondok Indah Hospital	PI002	12/04/2023	Rp320,000.00	13/04/2023 18:20	Rp128,000.00	Success
M001	Medicines	P003	K-24 Pharmacy	K201	01/04/2023	Rp120,000.00	10/04/2023 19:29	Rp48,000.00	
EM001	Emergency Medical	H001	Husada Hospital	HU003	22/04/2023	Rp3,020,000.00	29/04/2023 12:30	Rp1,298,600.00	Success
T001	Therapies	H006	Fatmawati Hospital	F002	21/04/2023	Rp2,290,000.00	22/04/2023 15:28	Rp984,700.00	
OC001	Outpatient Care	H005	Maypada International Hospital	MI003	17/04/2023	Rp1,230,000.00	20/04/2023 18:39	Rp528,900.00	Success
HC001	Health Check Ups	H008	Mitra Keluarga Hospital	MK002	28/04/2023	Rp230,000.00	28/04/2023 16:27	Rp98,900.00	
V001	Vaccination	H001	Husada Hospital	HU004				Rp320,000.00	Rp137,600.00
S001	Surgeries	H003	Pondok Indah Hospital	PI003	10/05/2023	Rp4,230,000.00	20/05/2023 18:20	Rp1,818,900.00	Success
MC001	Maternity	H007	Harapan Kita Hospital	HK001	17/05/2023	Rp32,000,000.00	23/05/2023 11:22	Rp10,560,000.00	Success
D001	Diseases	H002	UKRIDA Hospital	UK003	20/05/2023	Rp323,000.00	20/05/2023 13:49	Rp0.00	Rejected
T001	Therapies	H002	UKRIDA Hospital	UK004	19/05/2023	Rp200,000.00	21/05/2023 21:54	Rp0.00	Rejected
OC001	Outpatient Care							Rp339,000.00	Rp111,870.00
S001	Surgeries	H003	Pondok Indah Hospital	PI004	20/05/2023	Rp8,050,600.00	30/05/2023 10:28	Rp3,542,264.00	Success
M001	Medicines	P004	Century Pharmacy	C001				Rp100,000.00	
IC001	Inpatient Care	H004	Siloam Hospital	S002	30/05/2023	Rp3,020,000.00	3/6/2023 17:17	Rp1,328,800.00	Success
HC001	Health Check Ups	H008	Mitra Keluarga Hospital	MK003	01/06/2023	Rp650,000.00	6/6/2023 18:42	Rp0.00	
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EM001	Emergency Medical	H001	Husada Hospital	HU006	08/06/2023	Rp3,203,000.00	20/06/2023 12:30	Rp1,185,110.00	Success

**LINK EXCEL**

# NORMALISASI

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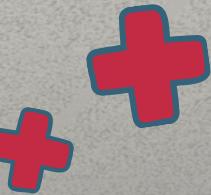
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1985000	116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193	ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789
1985001	116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193	ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789
1985002	117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456
1985002	117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456
1985003	117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456

LINK EXCEL



# NORMALISASI

TNF



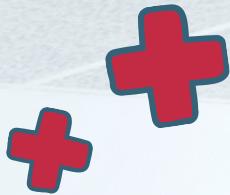
Service code	Service	Provider ID	Provider name	Transaction Id	Transaction Date	Cost	claim date	Claim Amount	Approval Status
D001	Diseases	H001	Husada Hospital	HU001	16/02/2023	Rp175,000.00	03/02/2023 12:30	Rp86,000.00	Success
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M001	Medicines	P001	Roxy Pharmacy	R001	28/02/2023	Rp70,000.00	20/02/2023 9:00	Rp0.00	Rejected
M001	Medicines	P001	Roxy Pharmacy	R002	14/03/2023	Rp55,000.00	20/02/2023 9:00	Rp16,500.00	Success
S001	Surgeries	H001	Husada Hospital	HU002	18/03/2023	Rp7,300,000.00	20/03/2023 20:00	Rp2,263,000.00	Success
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MC001	Maternity	H008	Mitra Keluarga Hospital	MK001	04/02/2023	Rp20,000,000.00	8/4/2023 3:00	Rp8,200,000.00	Success
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S001	Surgeries	H009	Pelni Hospital	P001	03/03/2023	Rp5,000,000.00	30/03/2023 16:21	Rp2,050,000.00	Success
RR001	Recovery and Rehabilitation	H009	Pelni Hospital	P001	03/03/2023	Rp1,500,000.00	30/03/2023 16:21	Rp615,000.00	Success
HC001	Health Check Ups	H003	Pondok Indah Hospital	PI002	12/04/2023	Rp320,000.00	13/04/2023 18:20	Rp128,000.00	Success
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HC001	Health Check Ups	H008	Mitra Keluarga Hospital	MK002	28/04/2023	Rp230,000.00	28/04/2023 16:27	Rp98,900.00	Success
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IC001	Inpatient Care	H004	Siloam Hospital	S002	30/05/2023	Rp3,020,000.00	3/6/2023 17:17	Rp1,328,800.00	Success
HC001	Health Check Ups	H008	Mitra Keluarga Hospital	MK003	01/06/2023	Rp650,000.00	6/6/2023 18:42	Rp0.00	Rejected
M001	Medicines	P001	Roxy Pharmacy	R002	01/06/2023	Rp220,000.00	6/6/2023 18:42	Rp0.00	Rejected
EM001	Emergency Medical	H001	Husada Hospital	HU006	08/06/2023	Rp3,203,000.00	20/06/2023 12:30	Rp1,185,110.00	Success

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# NORMALISASI

## 2NF



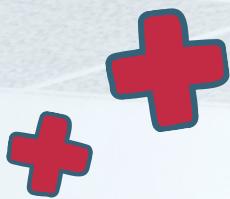
Claim Header												
Claim Number (PK/FK)	Client ID	Client Name	Client Number	Client Email	Client Bank Account	Client Address	Country	Province	City	Client Address	claim date	
1984981	101	Ryan Smith	083738297358	ryan.smith@gmail.com	1062539478	SPFL123	Indonesia	DKI Jakarta	Jakarta Barat	alan Raya Kebon Jeruk No. 12	03/02/2023 12:30	
1984982	101	Ryan Smith	083738297358	ryan.smith@gmail.com	1062539478	SPFL123	Indonesia	DKI Jakarta	Jakarta Barat	alan Raya Kebon Jeruk No. 12	18/02/2023 13:00	
1984983	102	Emily Davis	083738297360	emily.davis@gmail.com	5487102936	CBUS456	Indonesia	Jawa Tengah	Solo	Jalan Slamet Riyadi No. 456	20/02/2023 9:00	
1984984	103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870	PRTL789	Indonesia	Jawa Tengah	Semarang	Jalan Pahlawan No. 789	20/03/2023 20:00	
1984985	103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870	PRTL789	Indonesia	Jawa Tengah	Semarang	Jalan Pahlawan No. 789	20/03/2023 18:00	
1984986	103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870	PRTL789	Indonesia	Jawa Tengah	Semarang	Jalan Pahlawan No. 789	5/2/2023 17:00	
1984987	106	Liam Hall	083738297364	liam.hall@gmail.com	4657890321	ATX321	Indonesia	Jawa Timur	Surabaya	Jalan Tunjungan No. 101	3/3/2023 10:00	
1984988	107	Sophia Clark	083738297365	sophia.clark@gmail.com	2389041567	STL654	Indonesia	DKI Jakarta	Jakarta Selatan	Jalan Sudirman No. 234	8/4/2023 3:00	
1984989	108	Olivia Brown	083738297366	olivia.brown@gmail.com	6741298305	DENV987	Indonesia	Banten	Tangerang	Jalan Gatot Subroto No. 345	4/12/2023 12:34	
1984990	109	Mason Martinez	083738297367	mason.martinez@gmail.com	5426701983	BOS234	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Tomang Raya No. 345	30/03/2023 16:21	
1984991	110	Harper Adams	083738297368	harper.adams@gmail.com	6890142573	SFCA567	Indonesia	Jawa Timur	Malang	Jalan Ahmad Yani No. 678	13/04/2023 18:20	
1984991	110	Harper Adams	083738297368	harper.adams@gmail.com	6890142573	SFCA567	Indonesia	Jawa Timur	Malang	Jalan Ahmad Yani No. 678	10/04/2023 19:29	
1984992	111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690	MIA890	Indonesia	Jawa Barat	Bogor	Jalan Pajajaran No. 789	29/04/2023 12:30	
1984993	111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690	MIA890	Indonesia	Jawa Barat	Bogor	Jalan Pajajaran No. 789	22/04/2023 15:28	
1984994	111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690	MIA890	Indonesia	Jawa Barat	Bogor	Jalan Pajajaran No. 789	20/04/2023 18:39	
1984995	112	Rara Permata	083738297371	rara.permata@gmail.com	5973618204	PHIL432	Indonesia	Jawa Barat	Bandung	Jalan Dipatiukur No. 101	28/04/2023 16:27	
1984996	113	Dika Wijaya	083738297372	dika.wijaya@gmail.com	1245897063	HSTN765	Indonesia	Jawa Barat	Bekasi	Jalan Ir. H. Juanda No. 121	20/05/2023 18:20	
1984997	114	Isabella Turner	083738297373	isabella.turner@gmail.com	7658902143	CHI098	Indonesia	DKI Jakarta	Jakarta pusat	Jalan MH Thamrin No. 456	23/05/2023 11:22	
1984998	114	Isabella Turner	083738297373	isabella.turner@gmail.com	7658902143	CHI098	Indonesia	DKI Jakarta	Jakarta pusat	Jalan MH Thamrin No. 456	20/05/2023 13:49	
1984999	115	Budi Santoso	083738297375	budi.santoso@gmail.com	9845623107	LACA876	Indonesia	DKI Jakarta	Jakarta Timur	Jalan MT Haryono No. 789	21/05/2023 21:54	
1985000	116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193	ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789	30/05/2023 10:28	
1985001	116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193	ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789	3/6/2023 17:17	
1985002	117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456	6/6/2023 18:42	
1985003	117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456	20/06/2023 12:30	

[LINK EXCEL](#)



# NORMALISASI

**2NF**



ClaimDetail				
Claim Number (PK/FK)	Service code (PK/FK)	Transaction Id (PK/FK)	Claim Amount	Approval Status
1984981	D001	HU001	Rp86,000.00	Success
1984981	IC001	UK001	Rp170,000.00	Success
1984982	OC001	PI001	Rp300,000.00	Success
1984983	M001	R001	Rp0.00	Rejected
1984983	M001	R002	Rp16,500.00	Success
1984984	S001	HU002	Rp2,263,000.00	Success
1984985	HC001	S001	Rp0.00	Rejected
1984986	D001	F001	Rp72,540.00	Success
1984986	M001	F001	Rp0.00	Rejected
1984987	OC001	MI001	Rp155,000.00	Success
1984987	M001	MI001	Rp93,000.00	Success
1984988	MC001	MK001	Rp8,200,000.00	Success
1984989	V001	UK002	Rp0.00	Rejected
1984990	S001	P001	Rp2,050,000.00	Success
1984990	RR001	P001	Rp615,000.00	Success
1984991	HC001	PI002	Rp128,000.00	Success
1984991	M001	K201	Rp48,000.00	Success
1984992	EM001	HU003	Rp1,298,600.00	Success
1984993	T001	F002	Rp984,700.00	Success
1984994	OC001	MI003	Rp528,900.00	Success
1984995	HC001	MK002	Rp98,900.00	Success
1984995	V001	HU004	Rp137,600.00	Success
1984996	S001	PI003	Rp1,818,900.00	Success
1984997	MC001	HK001	Rp10,560,000.00	Success
1984998	D001	UK003	Rp0.00	Rejected
1984999	T001	UK004	Rp0.00	Rejected
1984999	OC001	UK004	Rp111,870.00	Success
1985000	S001	PI004	Rp3,542,264.00	Success
1985000	M001	C001	Rp44,000.00	Success
1985001	IC001	S002	Rp1,328,800.00	Success
1985002	HC001	MK003	Rp0.00	Rejected
1985002	M001	R002	Rp0.00	Rejected
1985003	EM001	HU006	Rp1,185,110.00	Success

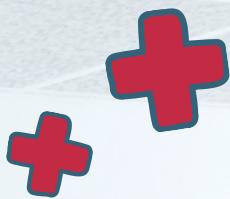
TransactionDetail		
Transaction Id (PK/FK)	Service code (PK/FK)	Cost
HU001	D001	Rp175,000.00
UK001	IC001	Rp270,000.00
PI001	OC001	Rp1,000,000.00
R001	M001	Rp70,000.00
R002	M001	Rp55,000.00
HU002	S001	Rp7,300,000.00
S001	HC001	Rp432,500.00
F001	D001	Rp234,000.00
F001	M001	Rp100,000.00
MI001	OC001	Rp500,000.00
MI001	M001	Rp300,000.00
MK001	MC001	Rp20,000,000.00
UK002	V001	Rp1,000,000.00
P001	S001	Rp5,000,000.00
P001	RR001	Rp1,500,000.00
PI002	HC001	Rp320,000.00
K201	M001	Rp120,000.00
HU003	EM001	Rp3,020,000.00
F002	T001	Rp2,290,000.00
MI003	OC001	Rp1,230,000.00
MK002	HC001	Rp230,000.00
HU004	V001	Rp320,000.00
PI003	S001	Rp4,230,000.00
HK001	MC001	Rp32,000,000.00
UK003	D001	Rp323,000.00
UK004	T001	Rp200,000.00
UK004	OC001	Rp339,000.00
PI004	S001	Rp8,050,600.00
C001	M001	Rp100,000.00
S002	IC001	Rp3,020,000.00
MK003	HC001	Rp650,000.00
R002	M001	Rp220,000.00
HU006	EM001	Rp3,203,000.00

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# NORMALISASI

**2NF**



Transaction Header			
Transaction Id (PK/FK)	Provider ID	Provider name	Transaction Date
HU001	H001	Husada Hospital	16/02/2023
UK001	H002	UKRIDA Hospital	20/02/2023
PI001	H003	Pondok Indah Hospital	16/02/2023
R001	P001	Roxy Pharmacy	28/02/2023
R002	P001	Roxy Pharmacy	14/03/2023
HU002	H001	Husada Hospital	18/03/2023
S001	H004	Siloam Hospital	20/03/2023
F001	H006	Fatmawati Hospital	04/02/2023
MI001	H005	Maypada International Hospital	02/02/2023
MK001	H008	Mitra Keluarga Hospital	04/02/2023
UK002	H002	UKRIDA Hospital	04/12/2023
P001	H009	Pelni Hospital	03/03/2023
PI002	H003	Pondok Indah Hospital	12/04/2023
K201	P003	K-24 Pharmacy	01/04/2023
HU003	H001	Husada Hospital	22/04/2023
F002	H006	Fatmawati Hospital	21/04/2023
MI003	H005	Maypada International Hospital	17/04/2023
MK002	H008	Mitra Keluarga Hospital	28/04/2023
HU004	H001	Husada Hospital	28/04/2023
PI003	H003	Pondok Indah Hospital	10/05/2023
HK001	H007	Harapan Kita Hospital	17/05/2023
UK003	H002	UKRIDA Hospital	20/05/2023
UK004	H002	UKRIDA Hospital	19/05/2023
PI004	H003	Pondok Indah Hospital	20/05/2023
C001	P004	Century Pharmacy	20/05/2023
S002	H004	Siloam Hospital	30/05/2023
MK003	H008	Mitra Keluarga Hospital	01/06/2023
R002	P001	Roxy Pharmacy	01/06/2023
HU006	H001	Husada Hospital	08/06/2023

MsService	
Service code (PK/FK)	Service
D001	Diseases
IC001	Inpatient Care
OC001	Outpatient Care
M001	Medicines
S001	Surgeries
V001	Vaccination
HC001	Health Check Ups
MC001	Maternity
RR001	Recovery and Rehabilitation
EM001	Emergency Medical
T001	Therapies

[LINK EXCEL](#)

# NORMALISASI

**3NF**

Claim Header		
Claim Number (PK/FK)	Client ID (FK)	Claim Date
1984981	101	03/02/2023 12:30
1984982	101	18/02/2023 13:00
1984983	102	20/02/2023 9:00
1984984	103	20/03/2023 20:00
1984985	103	20/03/2023 18:00
1984986	103	05/02/2023 17:00
1984987	106	03/03/2023 10:00
1984988	107	04/08/2023 3:00
1984989	108	04/12/2023 12:34
1984990	109	30/03/2023 16:21
1984991	110	13/04/2023 18:20
1984991	110	10/04/2023 19:29
1984992	111	29/04/2023 12:30
1984993	111	22/04/2023 15:28
1984994	111	20/04/2023 18:39
1984995	112	28/04/2023 16:27
1984996	113	20/05/2023 18:20
1984997	114	23/05/2023 11:22
1984998	114	20/05/2023 13:49
1984999	115	21/05/2023 21:54
1985000	116	30/05/2023 10:28
1985001	116	03/06/2023 17:17
1985002	117	06/06/2023 18:42
1985003	117	20/06/2023 12:30

ClaimDetail				
Claim Number (PK/FK)	Service code (PK/FK)	Transaction Id (PK/FK)	Claim Amount	Approval Status
1984981	D001	HU001	Rp86,000.00	Success
1984981	IC001	UK001	Rp170,000.00	Success
1984982	OC001	PI001	Rp300,000.00	Success
1984983	M001	R001	Rp0.00	Rejected
1984983	M001	R002	Rp16,500.00	Success
1984984	S001	HU002	Rp2,263,000.00	Success
1984985	HC001	S001	Rp0.00	Rejected
1984986	D001	F001	Rp72,540.00	Success
1984986	M001	F001	Rp0.00	Rejected
1984987	OC001	MI001	Rp155,000.00	Success
1984987	M001	MI001	Rp93,000.00	Success
1984988	MC001	MK001	Rp8,200,000.00	Success
1984989	V001	UK002	Rp0.00	Rejected
1984990	S001	P001	Rp2,050,000.00	Success
1984990	RR001	P001	Rp615,000.00	Success
1984991	HC001	PI002	Rp128,000.00	Success
1984991	M001	K201	Rp48,000.00	Success
1984992	EM001	HU003	Rp1,298,600.00	Success
1984993	T001	F002	Rp984,700.00	Success
1984994	OC001	MI003	Rp528,900.00	Success
1984995	HC001	MK002	Rp98,900.00	Success
1984995	V001	HU004	Rp137,600.00	Success
1984996	S001	PI003	Rp1,818,900.00	Success
1984997	MC001	HK001	Rp10,560,000.00	Success
1984998	D001	UK003	Rp0.00	Rejected
1984999	T001	UK004	Rp0.00	Rejected
1984999	OC001	UK004	Rp111,870.00	Success
1985000	S001	PI004	Rp3,542,264.00	Success
1985000	M001	C001	Rp44,000.00	Success
1985001	IC001	S002	Rp1,328,800.00	Success
1985002	HC001	MK003	Rp0.00	Rejected
1985002	M001	R002	Rp0.00	Rejected
1985003	EM001	HU006	Rp1,185,110.00	Success

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# NORMALISASI

## 3NF

Transaction Header		
Transaction Id (PK/FK)	Provider ID (FK)	Transaction Date
HU001	H001	16/02/2023
UK001	H002	20/02/2023
PI001	H003	16/02/2023
R001	P001	28/02/2023
R002	P001	14/03/2023
HU002	H001	18/03/2023
S001	H004	20/03/2023
F001	H006	04/02/2023
MI001	H005	02/02/2023
MK001	H008	04/02/2023
UK002	H002	04/12/2023
P001	H009	03/03/2023
PI002	H003	12/04/2023
K201	P003	01/04/2023
HU003	H001	22/04/2023
F002	H006	21/04/2023
MI003	H005	17/04/2023
MK002	H008	28/04/2023
HU004	H001	28/04/2023
PI003	H003	10/05/2023
HK001	H007	17/05/2023
UK003	H002	20/05/2023
UK004	H002	19/05/2023
PI004	H003	20/05/2023
C001	P004	20/05/2023
S002	H004	30/05/2023
MK003	H008	01/06/2023
R002	P001	01/06/2023
HU006	H001	08/06/2023

TransactionDetail		
Transaction Id (PK/FK)	Service code (PK/FK)	Cost
HU001	D001	Rp175,000.00
UK001	IC001	Rp270,000.00
PI001	OC001	Rp1,000,000.00
R001	M001	Rp70,000.00
R002	M001	Rp55,000.00
HU002	S001	Rp7,300,000.00
S001	HC001	Rp432,500.00
F001	D001	Rp234,000.00
F001	M001	Rp100,000.00
MI001	OC001	Rp500,000.00
MI001	M001	Rp300,000.00
MK001	MC001	Rp20,000,000.00
UK002	V001	Rp1,000,000.00
P001	S001	Rp5,000,000.00
P001	RR001	Rp1,500,000.00
PI002	HC001	Rp320,000.00
K201	M001	Rp120,000.00
HU003	EM001	Rp3,020,000.00
F002	T001	Rp2,290,000.00
MI003	OC001	Rp1,230,000.00
MK002	HC001	Rp230,000.00
HU004	V001	Rp320,000.00
PI003	S001	Rp4,230,000.00
HK001	MC001	Rp32,000,000.00
UK003	D001	Rp323,000.00
UK004	T001	Rp200,000.00
UK004	OC001	Rp339,000.00
PI004	S001	Rp8,050,600.00
C001	M001	Rp100,000.00
S002	IC001	Rp3,020,000.00
MK003	HC001	Rp650,000.00
R002	M001	Rp220,000.00
HU006	EM001	Rp3,203,000.00

[LINK EXCEL](#)



# NORMALISASI

## 3NF

MsClient

Client ID (PK)	Client Name	Client Number	Client Email	Client Bank Account	Address ID	Country	Province	City	Client Address
101	Ryan Smith	083738297358	ryan.smith@gmail.com	1062539478	SPFL123	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Raya Kebon Jeruk No. 123
102	Emily Davis	083738297360	emily.davis@gmail.com	5487102936	CBUS456	Indonesia	Jawa Tengah	Solo	Jalan Slamet Riyadi No. 456
103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870	PRTL789	Indonesia	Jawa Tengah	Semarang	Jalan Pahlawan No. 789
106	Liam Hall	083738297364	liam.hall@gmail.com	4657890321	ATX321	Indonesia	Jawa Timur	Surabaya	Jalan Tunjungan No. 101
107	Sophia Clark	083738297365	sophia.clark@gmail.com	2389041567	STL654	Indonesia	DKI Jakarta	Jakarta Selatan	Jalan Sudirman No. 234
108	Olivia Brown	083738297366	olivia.brown@gmail.com	6741298305	DENV987	Indonesia	Banten	Tangerang	Jalan Gatot Subroto No. 345
109	Mason Martinez	083738297367	mason.martinez@gmail.com	5426701983	BOS234	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Tomang Raya No. 345
110	Harper Adams	083738297368	harper.adams@gmail.com	6890142573	SFCA567	Indonesia	Jawa Timur	Malang	Jalan Ahmad Yani No. 678
111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690	MIA890	Indonesia	Jawa Barat	Bogor	Jalan Pajajaran No. 789
112	Rara Permata	083738297371	rara.permata@gmail.com	5973618204	PHIL432	Indonesia	Jawa Barat	Bandung	Jalan Dipatiukur No. 101
113	Dika Wijaya	083738297372	dika.wijaya@gmail.com	1245897063	HSTN765	Indonesia	Jawa Barat	Bekasi	Jalan Ir. H. Juanda No. 121
114	Isabella Turner	083738297373	isabella.turner@gmail.com	7658902143	CHI098	Indonesia	DKI Jakarta	Jakarta pusat	Jalan MH Thamrin No. 456
115	Budi Santoso	083738297375	budi.santoso@gmail.com	9845623107	LACA876	Indonesia	DKI Jakarta	Jakarta Timur	Jalan MT Haryono No. 789
116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193	ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789
117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456

[LINK EXCEL](#)



# NORMALISASI

## 3NF

MsService		MsProvider	
Service code (PK/FK)	Service	Provider ID (PK)	Provider name
D001	Diseases	H001	Husada Hospital
IC001	Inpatient Care	H002	UKRIDA Hospital
OC001	Outpatient Care	H003	Pondok Indah Hospital
M001	Medicines	H004	Siloam Hospital
S001	Surgeries	H005	Maypada International Hospital
V001	Vaccination	H006	Fatmawati Hospital
HC001	Health Check Ups	H007	Harapan Kita Hospital
MC001	Maternity	H008	Mitra Keluarga Hospital
RR001	Recovery and Rehabilitation	H009	Pelni Hospital
EM001	Emergency Medical	P001	Roxy Pharmacy
T001	Therapies	P002	Kimia Farma Pharmacy
		P003	K-24 Pharmacy
		P004	Century Pharmacy

[LINK EXCEL](#)



# NORMALISASI

## BCNF

Claim Header		
Claim Number (PK/FK)	Client ID (FK)	Claim Date
1984981	101	03/02/2023 12:30
1984982	101	18/02/2023 13:00
1984983	102	20/02/2023 9:00
1984984	103	20/03/2023 20:00
1984985	103	20/03/2023 18:00
1984986	103	05/02/2023 17:00
1984987	106	03/03/2023 10:00
1984988	107	04/08/2023 3:00
1984989	108	04/12/2023 12:34
1984990	109	30/03/2023 16:21
1984991	110	13/04/2023 18:20
1984991	110	10/04/2023 19:29
1984992	111	29/04/2023 12:30
1984993	111	22/04/2023 15:28
1984994	111	20/04/2023 18:39
1984995	112	28/04/2023 16:27
1984996	113	20/05/2023 18:20
1984997	114	23/05/2023 11:22
1984998	114	20/05/2023 13:49
1984999	115	21/05/2023 21:54
1985000	116	30/05/2023 10:28
1985001	116	03/06/2023 17:17
1985002	117	06/06/2023 18:42
1985003	117	20/06/2023 12:30

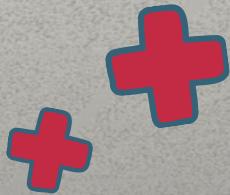
ClaimDetail				
Claim Number (PK/FK)	Service code (PK/FK)	Transaction Id (PK/FK)	Claim Amount	Approval Status
1984981	D001	HU001	Rp86,000.00	Success
1984981	IC001	UK001	Rp170,000.00	Success
1984982	OC001	PI001	Rp300,000.00	Success
1984983	M001	R001	Rp0.00	Rejected
1984983	M001	R002	Rp16,500.00	Success
1984984	S001	HU002	Rp2,263,000.00	Success
1984985	HC001	S001	Rp0.00	Rejected
1984986	D001	F001	Rp72,540.00	Success
1984986	M001	F001	Rp0.00	Rejected
1984987	OC001	MI001	Rp155,000.00	Success
1984987	M001	MI001	Rp93,000.00	Success
1984988	MC001	MK001	Rp8,200,000.00	Success
1984989	V001	UK002	Rp0.00	Rejected
1984990	S001	P001	Rp2,050,000.00	Success
1984990	RR001	P001	Rp615,000.00	Success
1984991	HC001	PI002	Rp128,000.00	Success
1984991	M001	K201	Rp48,000.00	Success
1984992	EM001	HU003	Rp1,298,600.00	Success
1984993	T001	F002	Rp984,700.00	Success
1984994	OC001	MI003	Rp528,900.00	Success
1984995	HC001	MK002	Rp98,900.00	Success
1984995	V001	HU004	Rp137,600.00	Success
1984996	S001	PI003	Rp1,818,900.00	Success
1984997	MC001	HK001	Rp10,560,000.00	Success
1984998	D001	UK003	Rp0.00	Rejected
1984999	T001	UK004	Rp0.00	Rejected
1984999	OC001	UK004	Rp111,870.00	Success
1985000	S001	PI004	Rp3,542,264.00	Success
1985000	M001	C001	Rp44,000.00	Success
1985001	IC001	S002	Rp1,328,800.00	Success
1985002	HC001	MK003	Rp0.00	Rejected
1985002	M001	R002	Rp0.00	Rejected
1985003	EM001	HU006	Rp1,185,110.00	Success

[LINK EXCEL](#)



# NORMALISASI

## BCNF



Transaction Header		
Transaction Id (PK/FK)	Provider ID (FK)	Transaction Date
HU001	H001	16/02/2023
UK001	H002	20/02/2023
PI001	H003	16/02/2023
R001	P001	28/02/2023
R002	P001	14/03/2023
HU002	H001	18/03/2023
S001	H004	20/03/2023
F001	H006	04/02/2023
MI001	H005	02/02/2023
MK001	H008	04/02/2023
UK002	H002	04/12/2023
P001	H009	03/03/2023
PI002	H003	12/04/2023
K201	P003	01/04/2023
HU003	H001	22/04/2023
F002	H006	21/04/2023
MI003	H005	17/04/2023
MK002	H008	28/04/2023
HU004	H001	28/04/2023
PI003	H003	10/05/2023
HK001	H007	17/05/2023
UK003	H002	20/05/2023
UK004	H002	19/05/2023
PI004	H003	20/05/2023
C001	P004	20/05/2023
S002	H004	30/05/2023
MK003	H008	01/06/2023
R002	P001	01/06/2023
HU006	H001	08/06/2023

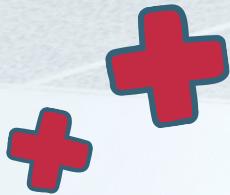
TransactionDetail		
Transaction Id (PK/FK)	Service code (PK/FK)	Cost
HU001	D001	Rp175,000.00
UK001	IC001	Rp270,000.00
PI001	OC001	Rp1,000,000.00
R001	M001	Rp70,000.00
R002	M001	Rp55,000.00
HU002	S001	Rp7,300,000.00
S001	HC001	Rp432,500.00
F001	D001	Rp234,000.00
F001	M001	Rp100,000.00
MI001	OC001	Rp500,000.00
MI001	M001	Rp300,000.00
MK001	MC001	Rp20,000,000.00
UK002	V001	Rp1,000,000.00
P001	S001	Rp5,000,000.00
P001	RR001	Rp1,500,000.00
PI002	HC001	Rp320,000.00
K201	M001	Rp120,000.00
HU003	EM001	Rp3,020,000.00
F002	T001	Rp2,290,000.00
MI003	OC001	Rp1,230,000.00
MK002	HC001	Rp230,000.00
HU004	V001	Rp320,000.00
PI003	S001	Rp4,230,000.00
HK001	MC001	Rp32,000,000.00
UK003	D001	Rp323,000.00
UK004	T001	Rp200,000.00
UK004	OC001	Rp339,000.00
PI004	S001	Rp8,050,600.00
C001	M001	Rp100,000.00
S002	IC001	Rp3,020,000.00
MK003	HC001	Rp650,000.00
R002	M001	Rp220,000.00
HU006	EM001	Rp3,203,000.00

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# NORMALISASI

## BCNF



MsClient

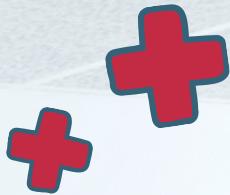
Client ID (PK)	Client Name	Client Number	Client Email	Client Bank Account	Address ID (FK)
101	Ryan Smith	083738297358	ryan.smith@gmail.com	1062539478	SPFL123
102	Emily Davis	083738297360	emily.davis@gmail.com	5487102936	CBUS456
103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870	PRTL789
106	Liam Hall	083738297364	liam.hall@gmail.com	4657890321	ATX321
107	Sophia Clark	083738297365	sophia.clark@gmail.com	2389041567	STL654
108	Olivia Brown	083738297366	olivia.brown@gmail.com	6741298305	DENV987
109	Mason Martinez	083738297367	mason.martinez@gmail.com	5426701983	BOS234
110	Harper Adams	083738297368	harper.adams@gmail.com	6890142573	SFCA567
111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690	MIA890
112	Rara Permata	083738297371	rara.permata@gmail.com	5973618204	PHIL432
113	Dika Wijaya	083738297372	dika.wijaya@gmail.com	1245897063	HSTN765
114	Isabella Turner	083738297373	isabella.turner@gmail.com	7658902143	CHI098
115	Budi Santoso	083738297375	budi.santoso@gmail.com	9845623107	LACA876
116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193	ATL543
117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014	DAL210

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# NORMALISASI

## BCNF



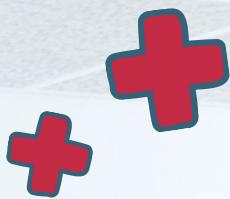
MsAddress				
Address ID (PK)	Country	Province	City	Client Address
SPFL123	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Raya Kebon Jeruk No. 123
CBUS456	Indonesia	Jawa Tengah	Solo	Jalan Slamet Riyadi No. 456
PRTL789	Indonesia	Jawa Tengah	Semarang	Jalan Pahlawan No. 789
ATX321	Indonesia	Jawa Timur	Surabaya	Jalan Tunjungan No. 101
STL654	Indonesia	DKI Jakarta	Jakarta Selatan	Jalan Sudirman No. 234
DENV987	Indonesia	Banten	Tangerang	Jalan Gatot Subroto No. 345
BOS234	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Tomang Raya No. 345
SFCA567	Indonesia	Jawa Timur	Malang	Jalan Ahmad Yani No. 678
MIA890	Indonesia	Jawa Barat	Bogor	Jalan Pajajaran No. 789
PHIL432	Indonesia	Jawa Barat	Bandung	Jalan Dipatiukur No. 101
HSTN765	Indonesia	Jawa Barat	Bekasi	Jalan Ir. H. Juanda No. 121
CHI098	Indonesia	DKI Jakarta	Jakarta pusat	Jalan MH Thamrin No. 456
LACA876	Indonesia	DKI Jakarta	Jakarta Timur	Jalan MT Haryono No. 789
ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789
DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456

[LINK EXCEL](#)



# NORMALISASI

## BCNF



MsService	
Service code (PK/FK)	Service
D001	Diseases
IC001	Inpatient Care
OC001	Outpatient Care
M001	Medicines
S001	Surgeries
V001	Vaccination
HC001	Health Check Ups
MC001	Maternity
RR001	Recovery and Rehabilitation
EM001	Emergency Medical
T001	Therapies

MsProvider	
Provider ID (PK)	Provider name
H001	Husada Hospital
H002	UKRIDA Hospital
H003	Pondok Indah Hospital
H004	Siloam Hospital
H005	Maypada International Hospital
H006	Fatmawati Hospital
H007	Harapan Kita Hospital
H008	Mitra Keluarga Hospital
H009	Pelni Hospital
P001	Roxy Pharmacy
P002	Kimia Farma Pharmacy
P003	K-24 Pharmacy
P004	Century Pharmacy

[LINK EXCEL](#)



# NORMALISASI

4NF

Claim Header		
Claim Number (PK/FK)	Client ID (FK)	Claim Date
1984981	101	03/02/2023 12:30
1984982	101	18/02/2023 13:00
1984983	102	20/02/2023 9:00
1984984	103	20/03/2023 20:00
1984985	103	20/03/2023 18:00
1984986	103	05/02/2023 17:00
1984987	106	03/03/2023 10:00
1984988	107	04/08/2023 3:00
1984989	108	04/12/2023 12:34
1984990	109	30/03/2023 16:21
1984991	110	13/04/2023 18:20
1984991	110	10/04/2023 19:29
1984992	111	29/04/2023 12:30
1984993	111	22/04/2023 15:28
1984994	111	20/04/2023 18:39
1984995	112	28/04/2023 16:27
1984996	113	20/05/2023 18:20
1984997	114	23/05/2023 11:22
1984998	114	20/05/2023 13:49
1984999	115	21/05/2023 21:54
1985000	116	30/05/2023 10:28
1985001	116	03/06/2023 17:17
1985002	117	06/06/2023 18:42
1985003	117	20/06/2023 12:30

ClaimDetail			
Claim Number (PK/FK)	Service code (PK/FK)	Claim Amount	Approval Status
1984981	D001	Rp86,000.00	Success
1984981	IC001	Rp170,000.00	Success
1984983	OC001	Rp0.00	Rejected
1984983	M001	Rp16,500.00	Success
1984984	M001	Rp2,263,000.00	Success
1984985	S001	Rp0.00	Rejected
1984986	HC001	Rp72,540.00	Success
1984986	D001	Rp0.00	Rejected
1984987	M001	Rp155,000.00	Success
1984987	OC001	Rp93,000.00	Success
1984988	M001	Rp8,200,000.00	Success
1984989	MC001	Rp0.00	Rejected
1984990	V001	Rp2,050,000.00	Success
1984990	S001	Rp615,000.00	Success
1984991	RR001	Rp128,000.00	Success
1984991	HC001	Rp48,000.00	Success
1984992	M001	Rp1,298,600.00	Success
1984993	EM001	Rp984,700.00	Success
1984994	T001	Rp528,900.00	Success
1984995	OC001	Rp98,900.00	Success
1984995	HC001	Rp137,600.00	Success
1984996	V001	Rp1,818,900.00	Success
1984997	S001	Rp10,560,000.00	Success
1984998	MC001	Rp0.00	Rejected
1984999	D001	Rp0.00	Rejected
1984999	T001	Rp111,870.00	Success
1985000	OC001	Rp3,542,264.00	Success
1985000	S001	Rp44,000.00	Success
1985001	M001	Rp1,328,800.00	Success
1985002	IC001	Rp0.00	Rejected
1985002	HC001	Rp0.00	Rejected
1985003	M001	Rp1,185,110.00	Success

[LINK EXCEL](#)

# NORMALISASI

4NF

TransactionDetail		
Transaction Id (PK/FK)	Service code (PK/FK)	Cost
HU001	D001	Rp175,000.00
UK001	IC001	Rp270,000.00
PI001	OC001	Rp1,000,000.00
R001	M001	Rp70,000.00
R002	M001	Rp55,000.00
HU002	S001	Rp7,300,000.00
S001	HC001	Rp432,500.00
F001	D001	Rp234,000.00
F001	M001	Rp100,000.00
MI001	OC001	Rp500,000.00
MI001	M001	Rp300,000.00
MK001	MC001	Rp20,000,000.00
UK002	V001	Rp1,000,000.00
P001	S001	Rp5,000,000.00
P001	RR001	Rp1,500,000.00
PI002	HC001	Rp320,000.00
K201	M001	Rp120,000.00
HU003	EM001	Rp3,020,000.00
F002	T001	Rp2,290,000.00
MI003	OC001	Rp1,230,000.00
MK002	HC001	Rp230,000.00
HU004	V001	Rp320,000.00
PI003	S001	Rp4,230,000.00
HK001	MC001	Rp32,000,000.00
UK003	D001	Rp323,000.00
UK004	T001	Rp200,000.00
UK004	OC001	Rp339,000.00
PI004	S001	Rp8,050,600.00
C001	M001	Rp100,000.00
MK003	HC001	Rp650,000.00
R002	M001	Rp220,000.00
HU006	EM001	Rp3,203,000.00

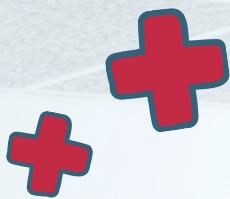
TransactionLink	
Claim Number (PK/FK)	Transaction Id (PK/FK)
1984981	HU001
1984981	UK001
1984982	R001
1984983	R002
1984983	HU002
1984984	S001
1984985	F001
1984986	F001
1984986	MI001
1984987	MI001
1984987	MK001
1984988	UK002
1984989	P001
1984990	P001
1984990	PI002
1984991	K201
1984991	HU003
1984992	F002
1984993	MI003
1984994	MK002
1984995	HU004
1984995	PI003
1984996	HK001
1984997	UK003
1984998	UK004
1984999	UK004
1984999	PI004
1985000	C001
1985000	S002
1985001	MK003
1985002	R002
1985002	HU006

LINK EXCEL



# NORMALISASI

# 4NF



ClientDetails				
Client ID (PK)	Client Name	Client Number	Client Email	Client Bank Account
101	Ryan Smith	083738297358	ryan.smith@gmail.com	1062539478
102	Emily Davis	083738297360	emily.davis@gmail.com	5487102936
103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870
106	Liam Hall	083738297364	liam.hall@gmail.com	4657890321
107	Sophia Clark	083738297365	sophia.clark@gmail.com	2389041567
108	Olivia Brown	083738297366	olivia.brown@gmail.com	6741298305
109	Mason Martinez	083738297367	mason.martinez@gmail.com	5426701983
110	Harper Adams	083738297368	harper.adams@gmail.com	6890142573
111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690
112	Rara Permata	083738297371	rara.permata@gmail.com	5973618204
113	Dika Wijaya	083738297372	dika.wijaya@gmail.com	1245897063
114	Isabella Turner	083738297373	isabella.turner@gmail.com	7658902143
115	Budi Santoso	083738297375	budi.santoso@gmail.com	9845623107
116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193
117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014

ClientAddressDetail	
Client ID (PK)	Address ID (FK)
101	SPFL123
102	CBUS456
103	PRTL789
106	ATX321
107	STL654
108	DENV987
109	BOS234
110	SFCA567
111	MIA890
113	HSTN765
114	CHI098
115	LACA876
116	ATL543
117	DAL210

[LINK EXCEL](#)



# NORMALISASI

**4NF**

MsAddress				
Address ID (PK)	Country	Province	City	Client Address
SPFL123	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Raya Kebon Jeruk No. 123
CBUS456	Indonesia	Jawa Tengah	Solo	Jalan Slamet Riyadi No. 456
PRTL789	Indonesia	Jawa Tengah	Semarang	Jalan Pahlawan No. 789
ATX321	Indonesia	Jawa Timur	Surabaya	Jalan Tunjungan No. 101
STL654	Indonesia	DKI Jakarta	Jakarta Selatan	Jalan Sudirman No. 234
DENV987	Indonesia	Banten	Tangerang	Jalan Gatot Subroto No. 345
BOS234	Indonesia	DKI Jakarta	Jakarta Barat	Jalan Tomang Raya No. 345
SFCA567	Indonesia	Jawa Timur	Malang	Jalan Ahmad Yani No. 678
MIA890	Indonesia	Jawa Barat	Bogor	Jalan Pajajaran No. 789
PHIL432	Indonesia	Jawa Barat	Bandung	Jalan Dipatiukur No. 101
HSTN765	Indonesia	Jawa Barat	Bekasi	Jalan Ir. H. Juanda No. 121
CHI098	Indonesia	DKI Jakarta	Jakarta pusat	Jalan MH Thamrin No. 456
LACA876	Indonesia	DKI Jakarta	Jakarta Timur	Jalan MT Haryono No. 789
ATL543	Indonesia	Jawa Timur	Surabaya	Jalan HR Muhammad No. 789
DAL210	Indonesia	Jawa Tengah	Semarang	Jalan Pemuda No. 456

MsService	
Service code (PK/FK)	Service
D001	Diseases
IC001	Inpatient Care
OC001	Outpatient Care
M001	Medicines
S001	Surgeries
V001	Vaccination
HC001	Health Check Ups
MC001	Maternity
RR001	Recovery and Rehabilitation
EM001	Emergency Medical
T001	Therapies

MsProvider	
Provider ID (PK)	Provider name
H001	Husada Hospital
H002	UKRIDA Hospital
H003	Pondok Indah Hospital
H004	Siloam Hospital
H005	Maypada International Hospital
H006	Fatmawati Hospital
H007	Harapan Kita Hospital
H008	Mitra Keluarga Hospital
H009	Pelni Hospital
P001	Roxy Pharmacy
P002	Kimia Farma Pharmacy
P003	K-24 Pharmacy
P004	Century Pharmacy

**LINK EXCEL**

# NORMALISASI

4NF

TransactionDetail		
Transaction Id (PK/FK)	Service code (PK/FK)	Cost
HU001	D001	Rp175,000.00
UK001	IC001	Rp270,000.00
PI001	OC001	Rp1,000,000.00
R001	M001	Rp70,000.00
R002	M001	Rp55,000.00
HU002	S001	Rp7,300,000.00
S001	HC001	Rp432,500.00
F001	D001	Rp234,000.00
F001	M001	Rp100,000.00
MI001	OC001	Rp500,000.00
MI001	M001	Rp300,000.00
MK001	MC001	Rp20,000,000.00
UK002	V001	Rp1,000,000.00
P001	S001	Rp5,000,000.00
P001	RR001	Rp1,500,000.00
PI002	HC001	Rp320,000.00
K201	M001	Rp120,000.00
HU003	EM001	Rp3,020,000.00
F002	T001	Rp2,290,000.00
MI003	OC001	Rp1,230,000.00
MK002	HC001	Rp230,000.00
HU004	V001	Rp320,000.00
PI003	S001	Rp4,230,000.00
HK001	MC001	Rp32,000,000.00
UK003	D001	Rp323,000.00
UK004	T001	Rp200,000.00
UK004	OC001	Rp339,000.00
PI004	S001	Rp8,050,600.00
C001	M001	Rp100,000.00
MK003	HC001	Rp650,000.00
R002	M001	Rp220,000.00
HU006	EM001	Rp3,203,000.00

TransactionLink	
Claim Number (PK/FK)	Transaction Id (PK/FK)
1984981	HU001
1984981	UK001
1984982	R001
1984983	R002
1984983	HU002
1984984	S001
1984985	F001
1984986	F001
1984986	MI001
1984987	MI001
1984987	MK001
1984988	UK002
1984989	P001
1984990	P001
1984990	PI002
1984991	K201
1984991	HU003
1984992	F002
1984993	MI003
1984994	MK002
1984995	HU004
1984995	PI003
1984996	HK001
1984997	UK003
1984998	UK004
1984999	UK004
1984999	PI004
1985000	C001
1985000	S002
1985001	MK003
1985002	R002
1985002	HU006

LINK EXCEL



# NORMALISASI

**5NF**

Claim Header		
Claim Number (PK/FK)	Client ID (FK)	Claim Date
1984981	101	03/02/2023 12:30
1984982	101	18/02/2023 13:00
1984983	102	20/02/2023 9:00
1984984	103	20/03/2023 20:00
1984985	103	20/03/2023 18:00
1984986	103	05/02/2023 17:00
1984987	106	03/03/2023 10:00
1984988	107	04/08/2023 3:00
1984989	108	04/12/2023 12:34
1984990	109	30/03/2023 16:21
1984991	110	13/04/2023 18:20
1984991	110	10/04/2023 19:29
1984992	111	29/04/2023 12:30
1984993	111	22/04/2023 15:28
1984994	111	20/04/2023 18:39
1984995	112	28/04/2023 16:27
1984996	113	20/05/2023 18:20
1984997	114	23/05/2023 11:22
1984998	114	20/05/2023 13:49
1984999	115	21/05/2023 21:54
1985000	116	30/05/2023 10:28
1985001	116	03/06/2023 17:17
1985002	117	06/06/2023 18:42
1985003	117	20/06/2023 12:30

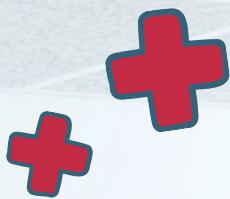
ClaimDetail			
Claim Number (PK/FK)	Service code (PK/FK)	Claim Amount	Approval Status
1984981	D001	Rp86,000.00	Success
1984981	IC001	Rp170,000.00	Success
1984983	OC001	Rp0.00	Rejected
1984983	M001	Rp16,500.00	Success
1984984	M001	Rp2,263,000.00	Success
1984985	S001	Rp0.00	Rejected
1984986	HC001	Rp72,540.00	Success
1984986	D001	Rp0.00	Rejected
1984987	M001	Rp155,000.00	Success
1984987	OC001	Rp93,000.00	Success
1984988	M001	Rp8,200,000.00	Success
1984989	MC001	Rp0.00	Rejected
1984990	V001	Rp2,050,000.00	Success
1984990	S001	Rp615,000.00	Success
1984991	RR001	Rp128,000.00	Success
1984991	HC001	Rp48,000.00	Success
1984992	M001	Rp1,298,600.00	Success
1984993	EM001	Rp984,700.00	Success
1984994	T001	Rp528,900.00	Success
1984995	OC001	Rp98,900.00	Success
1984995	HC001	Rp137,600.00	Success
1984996	V001	Rp1,818,900.00	Success
1984997	S001	Rp10,560,000.00	Success
1984998	MC001	Rp0.00	Rejected
1984999	D001	Rp0.00	Rejected
1984999	T001	Rp111,870.00	Success
1985000	OC001	Rp3,542,264.00	Success
1985000	S001	Rp44,000.00	Success
1985001	M001	Rp1,328,800.00	Success
1985002	IC001	Rp0.00	Rejected
1985002	HC001	Rp0.00	Rejected
1985003	M001	Rp1,185,110.00	Success

[LINK EXCEL](#)



# NORMALISASI

5NF



ClientDetails				
Client ID (PK)	Client Name	Client Number	Client Email	Client Bank Account
101	Ryan Smith	083738297358	ryan.smith@gmail.com	1062539478
102	Emily Davis	083738297360	emily.davis@gmail.com	5487102936
103	Lily Moore	083738297361	lily.moore@gmail.com	3216549870
106	Liam Hall	083738297364	liam.hall@gmail.com	4657890321
107	Sophia Clark	083738297365	sophia.clark@gmail.com	2389041567
108	Olivia Brown	083738297366	olivia.brown@gmail.com	6741298305
109	Mason Martinez	083738297367	mason.martinez@gmail.com	5426701983
110	Harper Adams	083738297368	harper.adams@gmail.com	6890142573
111	Aiden Lee	083738297372	aiden.lee@gmail.com	4738251690
112	Rara Permata	083738297371	rara.permata@gmail.com	5973618204
113	Dika Wijaya	083738297372	dika.wijaya@gmail.com	1245897063
114	Isabella Turner	083738297373	isabella.turner@gmail.com	7658902143
115	Budi Santoso	083738297375	budi.santoso@gmail.com	9845623107
116	Irfan Hakim	083738297376	irfan.hakim@gmail.com	7265048193
117	Rizky Pratama	083738297378	rizky.pratama@gmail.com	5729368014

ClientAddressDetail	
Client ID (PK)	Address ID (FK)
101	SPFL123
102	CBUS456
103	PRTL789
106	ATX321
107	STL654
108	DENV987
109	BOS234
110	SFCA567
111	MIA890
113	HSTN765
114	CHI098
115	LACA876
116	ATL543
117	DAL210

[LINK EXCEL](#)

# NORMALISASI

5NF

ProvinceDetail	
Address ID (PK)	Province
SPFL123	DKI Jakarta
CBUS456	Jawa Tengah
PRTL789	Jawa Tengah
ATX321	Jawa Timur
STL654	DKI Jakarta
DENV987	Banten
BOS234	DKI Jakarta
SFCA567	Jawa Timur
MIA890	Jawa Barat
PHIL432	Jawa Barat
HSTN765	Jawa Barat
CHI098	DKI Jakarta
LACA876	DKI Jakarta
ATL543	Jawa Timur
DAL210	Jawa Tengah

CityDetail	
Address ID (PK)	City
SPFL123	Jakarta Barat
CBUS456	Solo
PRTL789	Semarang
ATX321	Surabaya
STL654	Jakarta Selatan
DENV987	Tangerang
BOS234	Jakarta Barat
SFCA567	Malang
MIA890	Bogor
PHIL432	Bandung
HSTN765	Bekasi
CHI098	Jakarta pusat
LACA876	Jakarta Timur
ATL543	Surabaya
DAL210	Semarang

CountryDetail	
Address ID (PK)	Country
SPFL123	Indonesia
CBUS456	Indonesia
PRTL789	Indonesia
ATX321	Indonesia
STL654	Indonesia
DENV987	Indonesia
BOS234	Indonesia
SFCA567	Indonesia
MIA890	Indonesia
PHIL432	Indonesia
HSTN765	Indonesia
CHI098	Indonesia
LACA876	Indonesia
ATL543	Indonesia
DAL210	Indonesia

MsProvider	
Provider ID (PK)	Provider name
H001	Husada Hospital
H002	UKRIDA Hospital
H003	Pondok Indah Hospital
H004	Siloam Hospital
H005	Maypada International Hospital
H006	Fatmawati Hospital
H007	Harapan Kita Hospital
H008	Mitra Keluarga Hospital
H009	Pelni Hospital
P001	Roxy Pharmacy
P002	Kimia Farma Pharmacy
P003	K-24 Pharmacy
P004	Century Pharmacy

MsService	
Service code (PK/FK)	Service
D001	Diseases
IC001	Inpatient Care
OC001	Outpatient Care
M001	Medicines
S001	Surgeries
V001	Vaccination
HC001	Health Check Ups
MC001	Maternity
RR001	Recovery and Rehabilitation
EM001	Emergency Medical
T001	Therapies

[LINK EXCEL](#)



# NORMALISASI

# 5NF

AddressDetail	
Address ID (PK)	Client Address
SPFL123	Jalan Raya Kebon Jeruk No. 123
CBUS456	Jalan Slamet Riyadi No. 456
PRTL789	Jalan Pahlawan No. 789
ATX321	Jalan Tunjungan No. 101
STL654	Jalan Sudirman No. 234
DENV987	Jalan Gatot Subroto No. 345
BOS234	Jalan Tomang Raya No. 345
SFCA567	Jalan Ahmad Yani No. 678
MIA890	Jalan Pajajaran No. 789
PHIL432	Jalan Dipatiukur No. 101
HSTN765	Jalan Ir. H. Juanda No. 121
CHI098	Jalan MH Thamrin No. 456
LACA876	Jalan MT Haryono No. 789
ATL543	Jalan HR Muhammad No. 789
DAL210	Jalan Pemuda No. 456

CityInProvince	
Province (PK)	City
DKI Jakarta	Jakarta Barat
Jawa Tengah	Solo
Jawa Tengah	Semarang
Jawa Timur	Surabaya
DKI Jakarta	Jakarta Selatan
Banten	Tangerang
Jawa Timur	Malang
Jawa Barat	Bogor
Jawa Barat	Bandung
Jawa Barat	Bekasi
DKI Jakarta	Jakarta pusat
DKI Jakarta	Jakarta Timur

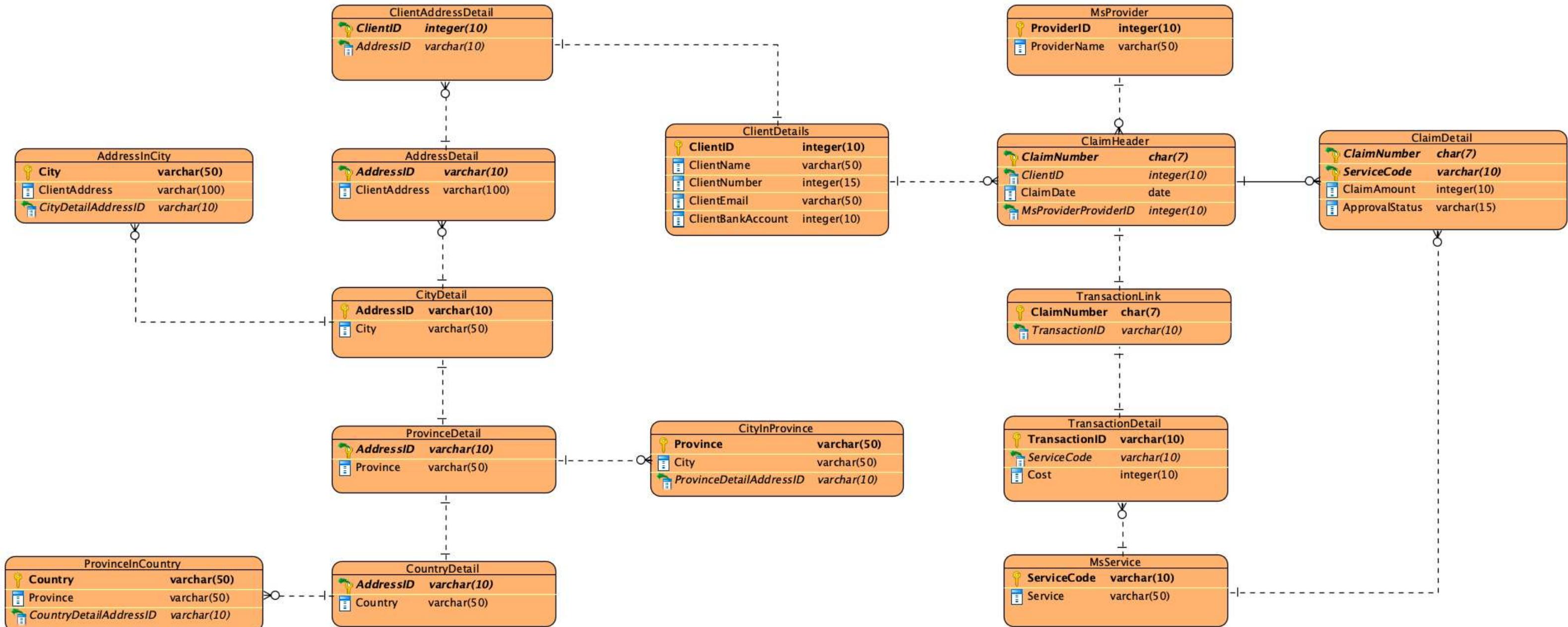
AddressInCity	
City (PK)	Client Address
Jakarta Barat	Jalan Raya Kebon Jeruk No. 123
Solo	Jalan Slamet Riyadi No. 456
Semarang	Jalan Pahlawan No. 789
Surabaya	Jalan Tunjungan No. 101
Jakarta Selatan	Jalan Sudirman No. 234
Tangerang	Jalan Gatot Subroto No. 345
Jakarta Barat	Jalan Tomang Raya No. 345
Malang	Jalan Ahmad Yani No. 678
Bogor	Jalan Pajajaran No. 789
Bandung	Jalan Dipatiukur No. 101
Bekasi	Jalan Ir. H. Juanda No. 121
Jakarta pusat	Jalan MH Thamrin No. 456
Jakarta Timur	Jalan MT Haryono No. 789
Surabaya	Jalan HR Muhammad No. 789
Semarang	Jalan Pemuda No. 456

ProvinceInCountry	
Country (PK)	Province
Indonesia	DKI Jakarta
Indonesia	Jawa Tengah
Indonesia	Jawa Timur
Indonesia	Banten
Indonesia	Jawa Barat

[LINK EXCEL](#)

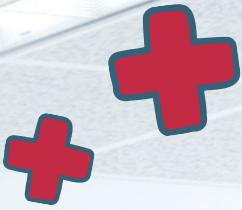


# ERD





# SCENARIO

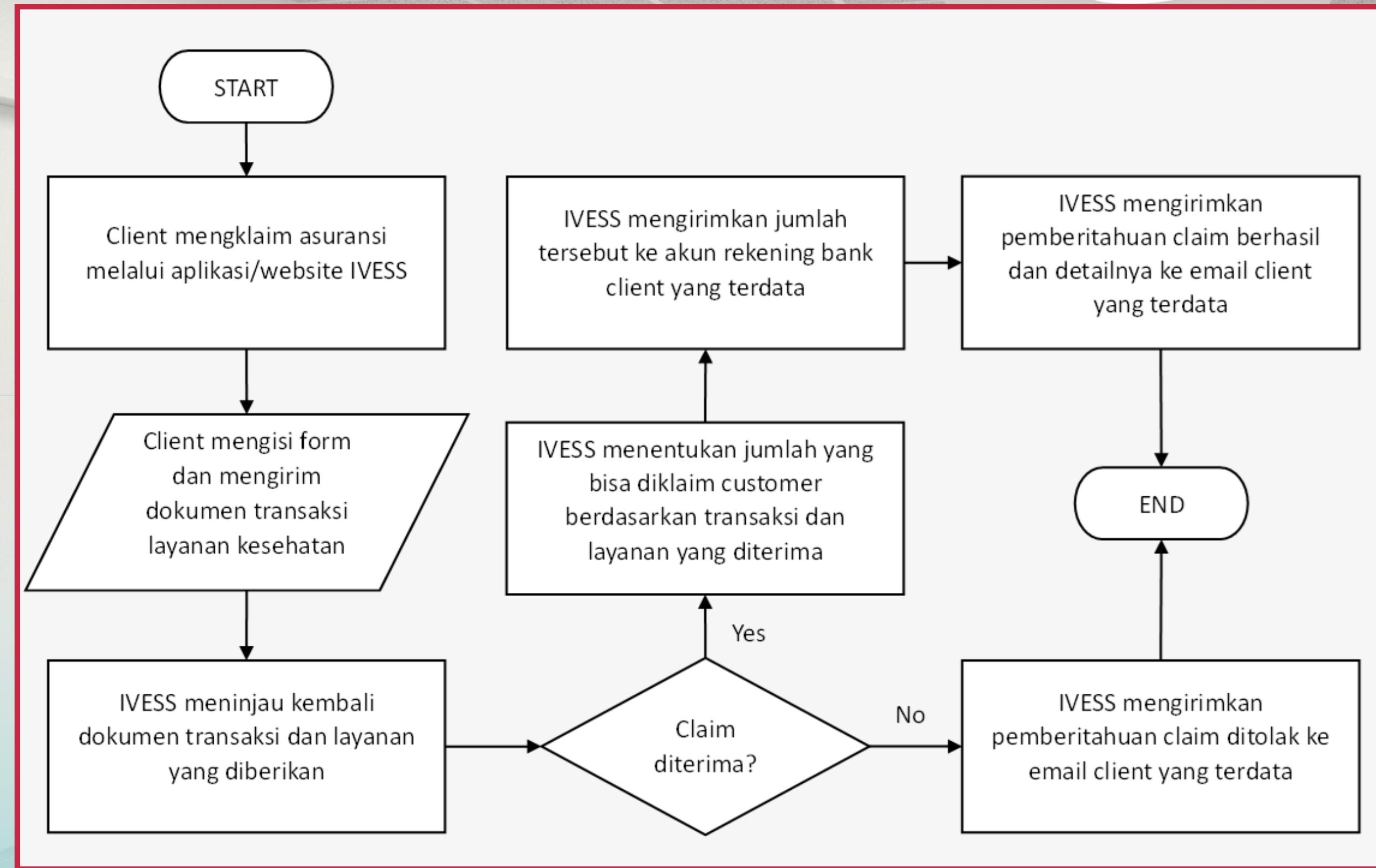


Peningkatan jumlah **client** dan **rumah sakit** yang **tercover asuransi**, memberikan tantangan baru bagi IVESS terkait manajemen data klaim. Untuk mengatasi kompleksitas ini, IVESS memutuskan **beralih dari penyimpanan klaim dalam resi ke sistem database**. Keputusan ini memungkinkan IVESS untuk lebih efisien mengelola data. Dengan database, penambahan informasi terkait client, rumah sakit, layanan, dan lainnya menjadi lebih mudah, dan pengambilan data dapat dilakukan dengan cepat dan terorganisir melalui query yang relevan. Hal ini tidak hanya **memberikan efisiensi operasional**, tetapi juga memastikan **informasi klaim dapat diakses dan dikelola dengan lebih baik**, meningkatkan pelayanan kepada client serta kemampuan IVESS untuk menjawab kebutuhan pasar yang terus berkembang.





# FLOWCHART





**THANK  
YOU**