Samuel Lobongtang
Basis Data

Soal 1 1NF

Kode_dokter	Nama_dokter	kode_pasien	Nama_pasian	No_antrian	Tanggal_antrian	Jam_Antrian	Kode_suster	Nama_Suster	Kode_tindakan	Nama_tindakan	Biaya
D01	Dr. Bambang Suparn	P01	Citra Adi Negara	A01	01/05/2016	07:30	N01	Ratna Adinda	T01	Rawat inap	Rp 900.000,00
D01	Dr. Bambang Suparn	P01	Citra Adi Negara	A02	01/06/2016	08:15	N01	Ratna Adinda	T02	Rawat Jalan	Rp 500.000,00
D01	Dr. Bambang Suparn	P02	Davin Yusuf Wica	A03	01/07/2016	09:00	N01	Ratna Adinda	T02	Rawat Jalan	Rp 500.000,00
D01	Dr. Bambang Suparn	P02	Davin Yusuf Wica	A04	02/05/2016	10:00	N02	Mirna Putri	T01	Rawat inap	Rp 700.000,00
D01	Dr. Bambang Suparn	P03	Dimas Andre Isw	A05	02/06/2016	11:06	N03	Soleh	T01	Rawat inap	Rp 900.000,00
D01	Dr. Bambang Suparn	P03	Dimas Andre Isw	A06	02/07/2016	11:15	N04	Dian Saputri	T02	Rawat Jalan	Rp 240.000,00
D02	Dr.Renny Saraswati	P04	Dodi Subakti	A07	03/05/2016	13:00	N04	Dian Saputri	T02	Rawat Jalan	Rp 900.000,00
D02	Dr.Renny Saraswati	P04	Dodi Subakti	A08	03/06/2016	11:05	N04	Dian Saputri	T01	Rawat inap	Rp 700.000,00
D02	Dr.Renny Saraswati	P05	Budi	A09	03/07/2016	07:00	N05	Remi Widodo	T02	Rawat Jalan	Rp 500.000,00
D03	Dr.Sadiman Emanue	P06	Fabiola Ester Tom	A01	01/05/2016	07:30	N01	Ratna Adinda	T01	Rawat inap	Rp 500.000,00
D03	Dr.Sadiman Emanue	P06	Fabiola Ester Tom	A02	01/06/2016	08:15	N01	Ratna Adinda	T02	Rawat Jalan	Rp 150.000,00
D03	Dr.Sadiman Emanue	P07	Fathiya Widya R	A03	01/07/2016	09:00	N01	Ratna Adinda	T02	Rawat Jalan	Rp 700.000,00
D03	Dr.Sadiman Emanue	P07	Fathiya Widya R	A04	02/05/2016	09:10	N02	Mirna Putri	T01	Rawat inap	Rp 400.000,00
D03	Dr.Sadiman Emanue	P08	Freda Pratama P	A05	02/06/2016	08:00	N03	Soleh	T01	Rawat inap	Rp 800.000,00
D03	Dr.Sadiman Emanue	P08	Freda Pratama P	A06	02/07/2016	09:00	N04	Dian Saputri	T02	Rawat Jalan	Rp 500.000,00
D04	Dr.Sri Wahyuni	P09	Gita Eka Febriana	A07	03/05/2016	10:00	N04	Dian Saputri	T02	Rawat Jalan	Rp 250.000,00
D04	Dr.Sri Wahyuni	P09	Gita Eka Febriana	A08	03/06/2016	11:00	N04	Dian Saputri	T01	Rawat inap	Rp 350.000,00
D04	Dr.Sri Wahyuni	P10	Fryda Rizkyta Ar	A09	03/07/2016	11:00	N05	Remi Widodo	T02	Rawat Jalan	Rp 600.000,00
D05	Dr.Rangga Aditya	P11	Theofani azari	A07	03/05/2016	09:10	N04	Dian Saputri	T02	Rawat Jalan	Rp 900.000,00
D05	Dr.Rangga Aditya	P11	Theofani azari	A08	03/06/2016	08:00	N04	Dian Saputri	T01	Rawat inap	Rp 700.000,00
D05	Dr.Rangga Aditya	P12	Salsabilla	A09	03/07/2016	09:00	N05	Remi Widodo	T02	Rawat Jalan	Rp 500.000,00
D06	Dr.Hartono	P13	Zaza Maulidya	A01	01/05/2016	07:30	N01	Ratna Adinda	T01	Rawat inap	Rp 600.000,00
D06	Dr.Hartono	P13	Zaza Maulidya	A02	01/06/2016	08:15	N01	Ratna Adinda	T02	Rawat Jalan	Rp 150.000,00
D06	Dr.Hartono	P14	Nur Cholis Efend	A03	01/07/2016	09:00	N01	Ratna Adinda	T02	Rawat Jalan	Rp 700.000,00
D06	Dr.Hartono	P14	Nur Cholis Efend	A04	02/05/2016	10:00	N02	Mirna Putri	T01	Rawat inap	Rp 600.000,00

2NF

Tabel Antrian

{kode_dokter,kode_pasien, kode_suster, kode_tindakan, no_antrian, tgl_antrian}

Kode_dokter	kode_pasien	Kode_suster	Kode_tindakan	No_antrian	Tanggal_antrian	Jam_Antrian
D01	P01	N01	T01	A01	01/05/2016	07:30
D01	P01	N01	T02	A02	01/06/2016	08:15
D01	P02	N01	T02	A03	01/07/2016	09:00
D01	P02	N02	T01	A04	02/05/2016	10:00
D01	P03	N03	T01	A05	02/06/2016	11:06
D01	P03	N04	T02	A06	02/07/2016	11:15
D02	P04	N04	T02	A07	03/05/2016	13:00
D02	P04	N04	T01	A08	03/06/2016	11:05
D02	P05	N05	T02	A09	03/07/2016	07:00
D03	P06	N01	T01	A01	01/05/2016	07:30
D03	P06	N01	T02	A02	01/06/2016	08:15
D03	P07	N01	T02	A03	01/07/2016	09:00
D03	P07	N02	T01	A04	02/05/2016	09:10
D03	P08	N03	T01	A05	02/06/2016	08:00
D03	P08	N04	T02	A06	02/07/2016	09:00
D04	P09	N04	T02	A07	03/05/2016	10:00
D04	P09	N04	T01	A08	03/06/2016	11:00
D04	P10	N05	T02	A09	03/07/2016	11:00
D05	P11	N04	T02	A07	03/05/2016	09:10
D05	P11	N04	T01	A08	03/06/2016	08:00
D05	P12	N05	T02	A09	03/07/2016	09:00
D06	P13	N01	T01	A01	01/05/2016	07:30
D06	P13	N01	T02	A02	01/06/2016	08:15
D06	P14	N01	T02	A03	01/07/2016	09:00
D06	P14	N02	T01	A04	02/05/2016	10:00

Tabel Dokter   Tabel Pasien

Kode_dokter	Nama_dokter
D01	Dr. Bambang Suparman
D02	Dr.Renny Saraswati
D03	Dr.Sadiman Emanuel
D04	Dr.Sri Wahyuni
D05	Dr.Rangga Aditya
D06	Dr.Hartono

{kode_dokter,nama_dokter}

kode_pasien	Nama_pasian
P01	Citra Adi Negara
P02	Davin Yusuf Wicaksana
P03	Dimas Andre Iswahyudi
P04	Dodi Subakti
P05	Budi
P06	Fabiola Ester Tomasila
P07	Fathiya Widya Rahman
P08	Freda Pratama Putra
P09	Gita Eka Febriana
P10	Fryda Rizkyta Ardiana
P11	Theofani azari
P12	Salsabilla
P13	Zaza Maulidya
P14	Nur Cholis Efendy

{kode_pasien,nama_pasien}

Kode_suster	Nama_Suster
N01	Ratna Adinda
N01	Ratna Adinda
N01	Ratna Adinda
N02	Mirna Putri
N03	Soleh
N04	Dian Saputri
N04	Dian Saputri
N04	Dian Saputri
N05	Remi Widodo
N01	Ratna Adinda
N01	Ratna Adinda
N01	Ratna Adinda
N02	Mirna Putri
N03	Soleh
N04	Dian Saputri
N04	Dian Saputri
N04	Dian Saputri
N05	Remi Widodo
N04	Dian Saputri
N04	Dian Saputri

Tabel Suster

{kode_suster, nama_suster}

N05	Remi Widodo
N01	Ratna Adinda
N01	Ratna Adinda
N01	Ratna Adinda
N02	Mirna Putri

3NF

Tabel Antrian

{kode_dokter,kode_pasien, kode_suster,kode_tindakan, no_antrian }

Kode_dokter	kode_pasien	Kode_suster	Kode_tindakan	No_antrian
D01	P01	N01	T01	A01
D01	P01	N01	T02	A02
D01	P02	N01	T02	A03
D01	P02	N02	T01	A04
D01	P03	N03	T01	A05
D01	P03	N04	T02	A06
D02	P04	N04	T02	A07
D02	P04	N04	T01	A08
D02	P05	N05	T02	A09
D03	P06	N01	T01	A01
D03	P06	N01	T02	A02
D03	P07	N01	T02	A03
D03	P07	N02	T01	A04
D03	P08	N03	T01	A05
D03	P08	N04	T02	A06
D04	P09	N04	T02	A07
D04	P09	N04	T01	A08
D04	P10	N05	T02	A09
D05	P11	N04	T02	A07
D05	P11	N04	T01	A08
D05	P12	N05	T02	A09
D06	P13	N01	T01	A01
D06	P13	N01	T02	A02
D06	P14	N01	T02	A03
D06	P14	N02	T01	A04

DETAIL_ANTRIAN

Hari	Jam ke	Kode MK	Nama MK	Kode Dosen	Nama Dosen	KLS	Ruang
Senin	1-3	EL230	Fisika 1	105	Prof.Bajuri	A,B,C	AMPI
Senin	4-5	EL230	Fisika 1	105	Prof.Bajuri	C,D	AMPI

Selasa	1-3	EL440	Pemrograman	102	Susilowati	A,B	R1
Selasa	4-6	EL440	Pemrograman	105	Prof.Bajuri	C,D	R2
Selasa	1-3	EL450	Pancasila	109	Timbul, PhD.	E,F	R1

{no_antrian, tgl_antrian, jam_antrian}

kode_pasien	Nama_pasian
P01	Citra Adi Negara
P02	Davin Yusuf Wicaksana
P03	Dimas Andre Iswahyudi
P04	Dodi Subakti
P05	Budi
P06	Fabiola Ester Tomasila
P07	Fathiya Widya Rahman
P08	Freda Pratama Putra
P09	Gita Eka Febriana
P10	Fryda Rizkyta Ardiana
P11	Theofani azari
P12	Salsabilla
P13	Zaza Maulidya
P14	Nur Cholis Efendy

No_antrian	Tanggal_antrian	Jam_Antrian
A01	01/05/2016	07:30
A02	01/06/2016	08:15
A03	01/07/2016	09:00
A04	02/05/2016	10:00
A05	02/06/2016	11:06
A06	02/07/2016	11:15
A07	03/05/2016	13:00
A08	03/06/2016	11:05
A09	03/07/2016	07:00

Kode_dokter	Nama_dokter
D01	Dr. Bambang Suparman
D02	Dr.Renny Saraswati
D03	Dr.Sadiman Emanuel
D04	Dr.Sri Wahyuni
D05	Dr.Rangga Aditya
D06	Dr.Hartono

Tabel Dokter
{kode_dokter,nama_dokter}

Tabel Pasien
{kode_pasien,nama_pasien}

Tabel Suster

{kode_suster, nama_suster}

Kode_suster	Nama_Suster
N01	Ratna Adinda
N02	Mirna Putri
N03	Soleh
N04	Dian Saputri
N05	Remi Widodo

Tabel Prosedur
{kode_tindakan, nama_tindakan, biaya}

Kode_tindakan	Nama_tindakan
T01	Rawat inap
T02	Rawat Jalan

Soal 2

Hari	Jam ke	Kode MK	Nama MK	Kode Dosen	Nama Dosen	KLS	Ruang
Senin	1-3	EL230	Fisika 1	105	Prof.Bajuri	A,B,C	AMPI
	4-5					C,D	
Selasa	1-3	EL440	Pemrograman	102	Susilowati	A,B	R1
	4-6	EL440		105	Prof.Bajuri	C,D	R2
	1-3	EL450		109	Timbul, PhD.	E,F	R1

1NF
2NF

Tabel Jam Pelajaran

Hari	Jam ke	Kode MK	Kode Dosen	KLS	Ruang
Senin	1-3	EL230	105	A,B,C	AMPI
Senin	4-5	EL230	105	C,D	AMPI
Selasa	1-3	EL440	102	A,B	R1
Selasa	4-6	EL440	105	C,D	R2
Selasa	1-3	EL450	109	E,F	R1

Tabel Mata Kuliah
{Kode_MK,Nama MK}

Kode MK	Nama MK
EL230	Fisika 1
EL440	Pemrograman
EL450	Pancasila

3NF

Tabel Jam Pelajaran

Hari	Jam ke	Kode MK	Kode Dosen	KLS	Ruang

Senin	1-3	EL230	105	A,B,C	AMPI
Senin	4-5	EL230	105	C,D	AMPI
Selasa	1-3	EL440	102	A,B	R1
Selasa	4-6	EL440	105	C,D	R2
Selasa	1-3	EL450	109	E,F	R1

Tabel Mata Kuliah   Tabel Dosen

{Kode_MK,Nama MK}   {Kode_Dosen, Nama_Dosen}

Kode MK	Nama MK
EL230	Fisika 1
EL440	Pemrograman
EL450	Pancasila

Kode_Dosen	Nama Dosen
105	Prof.Bajuri
102	Susilowati
109	Timbul, PhD.

Soal 3

FirstName	empCity
Jack	New York
Harry	Berlin

Parker	London

Asli

Movie	ScreeningCity	Genre
Hard Code	Los Angels	Comedy
Hard Code	New York	Comedy
Bill Durham	Santa Cruz	Drama
Bill Durham	Durham	Drama
The Code Warrier	New York	Horror

2NF

Movie	ScreeningCity
Hard Code	Los Angels
Hard Code	New York
Bill Durham	Santa Cruz
Bill Durham	Durham
The Code Warrier	New York

Movie	Genre
Hard Code	Comedy
Bill Durham	Drama
The Code Warrier	Horror

Soal 4

Asli

empNum	FirstName	empCity	deptName	deptHead
1001	Jack	New York	Accounts	Raymond
1001	Jack	New York	Technology	Donald
1002	Harry	Berlin	Accounts	Samara
1007	Parker	London	HR	Elizabeth
1007	Parker	London	Infrastructure	Tom

2 NF

empNum	FirstName
1001	Jack
1002	Harry
1007	Parker

empNum	FirstName	deptName	deptHead
1001	Jack	Accounts	Raymond
1001	Jack	Technology	Donald
1002	Harry	Accounts	Samara
1007	Parker	HR	Elizabeth
1007	Parker	Infrastructure	Tom

empNum	FirstName	empCity
1001	Jack	New York
1002	Harry	Berlin
1007	Parker	London

3NF

empNum	FirstName
1001	Jack
1002	Harry
1007	Parker

empNum	FirstName	deptName
1001	Jack	Accounts
1001	Jack	Technology
1002	Harry	Accounts
1007	Parker	HR
1007	Parker	Infrastructure

empNum	FirstName	deptName	deptHead
1001	Jack	Accounts	Raymond
1001	Jack	Technology	Donald
1002	Harry	Accounts	Samara
1007	Parker	HR	Elizabeth
1007	Parker	Infrastructure	Tom

4NF

empNum	FirstName
1001	Jack
1002	Harry
1007	Parker

FirstName	empCity
Jack	New York
Harry	Berlin
Parker	London

empNum	FirstName	deptName
1001	Jack	Accounts
1001	Jack	Technology
1002	Harry	Accounts
1007	Parker	HR
1007	Parker	Infrastructure

deptName	deptHead

Accounts	Raymond
Technology	Donald
Accounts	Samara
HR	Elizabeth
Infrastructure	Tom

empNum	FirstName	deptName	deptHead
1001	Jack	Accounts	Raymond
1001	Jack	Technology	Donald
1002	Harry	Accounts	Samara
1007	Parker	HR	Elizabeth
1007	Parker	Infrastructure	Tom

Accounts	Raymond
Technology	Donald
Accounts	Samara
HR	Elizabeth
Infrastructure	Tom

empNum	FirstName	deptName	deptHead
1001	Jack	Accounts	Raymond
1001	Jack	Technology	Donald
1002	Harry	Accounts	Samara
1007	Parker	HR	Elizabeth
1007	Parker	Infrastructure	Tom