

LEMBAR KERJA PRAKTIKUM (45 menit)

Nama: Athifah Muflihah	Tanggal Praktikum: 23 September 2021
NIM : G6401201033	Waktu Praktikum: 15:30 – 17:30
Nilai :	Nama Asisten : Muhamad Ilham Fadillah

Soal

1. Lakukan Normalisasi form berikut ini:

Wellmeadows Hospital Patient Medication Form							
Patient Number: <u>P10034</u> Full Name: <u>Robert MacDonald</u> Ward Number: <u>Ward 11</u> Bed Number: <u>84</u> Ward Name: <u>Orthopaedic</u>							
Drug Number	Name	Description	Dosage	Method of Admin	Units per Day	Start Date	Finish Date
10223	Morphine	Pain Killer	10mg/ml	Oral	50	24/03/04	24/04/05
10334	Tetracycline	Antibiotic	0.5mg/ml	IV	10	24/03/04	17/04/04
10223	Morphine	Pain Killer	10mg/ml	Oral	10	25/04/05	02/05/06

2. The following is an unnormalized PATIENT record:
 (PIDNO, PNAME, FAMDOCNO, DOCNAME, DOCADDR, *(APPTMT-DATE, APPTMT-TIME, CONSULTANT-NAME-CONSULTANT-PHONE, HOSPITAL, HOSPITAL-ADDR)) where * represents repeating groups of information. The business rules are:
 - On any given day, a consultant attends at just one hospital
 - On any given day, a patient will have only one appointment (APPTMT) with a given consultant
 - Patient id numbers (PIDNO) and consultant names are unique
 - Family doctor numbers (FAMDOCNO) and hospital names are unique
 - Family doctor names (DOCNAME) and patient names (PNAME) are not unique
 - Consultants have just one phone number, used as home base.

Reduce the above relation into normalized forms.

Jawab**1. Normalisasi Patient Medication Form****1NF****Patient Medication Form**

Patient Number	Full Name	Ward Number	Bed Number	Drug Number	Name	Description	Dosage	Method of Admin	Units per Day	Start Date	Finish Date
P10034	Robert MacDonald	Ward 11	84	10223	Morphine	Pain Killer	10mg/ml	Oral	50	23/03/04	24/04/05
P10034	Robert MacDonald	Ward 11	84	10334	Tetracycline	Antibiotic	0.5mg/ml	IV	10	23/03/04	17/04/04
P10034	Robert MacDonald	Ward 11	84	10223	Morphine	Pain Killer	10mg/ml	Oral	10	25/04/04	02/05/06

2NF**Patient**

Patient Number	Full Name	Bed Number	Ward Number	Ward Name
P10034	Robert MacDonald	84	Ward 11	Orthopaedic

Drug

Drug Number	Name	Description	Method of Admin
10223	Morphine	Pain Killer	Oral
10334	Tetracycline	Antibiotic	IV

History

Patient Number	Drug Number	Units per Day	Start Date	Finish Date
P10034	10223	50	23/03/04	24/04/05
P10034	10334	10	23/03/04	17/04/04
P10034	10223	10	25/04/04	02/05/06

3NF**Patient Medication**

Patient Number	Bed Number	Ward Number	Ward Name
P10034	84	Ward 11	Orthopaedic

Patient

Patient Number	Full Name
P10034	Robert MacDonald

Ward

Ward Number	Ward Name
Ward 11	Orthopaedic

Drug

Drug Number	Name	Description	Method of Admin
10223	Morphine	Pain Killer	Oral
10334	Tetracycline	Antibiotic	IV

History

Patient Number	Drug Number	Units per Day	Start Date	Finish Date
P10034	10223	50	23/03/04	24/04/05
P10034	10334	10	23/03/04	17/04/04
P10034	10223	10	25/04/04	02/05/06

2. Normalisasi Patient Record Form

1NF

Patient Record

<u>PIDNO</u>	PNAME	<u>FAMDOCNO</u>	DOCNAME	DOCADDR	APPTMT-DATE	APPTMT-TIME	<u>CONSULTANT-NAME</u>	CONSULTANT-PHONE	<u>HOSPITAL-NAME</u>	HOSPITAL-ADDR
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2NF

Patient

<u>PIDNO</u>	PNAME	<u>FAMDOCNO</u>	DOCNAME	DOCADDR
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Patient Record

<u>PIDNO</u>	APPTMT-DATE	APPTMT-TIME	<u>CONSULTANT-NAME</u>	CONSULTANT-PHONE	<u>HOSPITAL-NAME</u>	HOSPITAL-ADDR
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3NF

Consultant

<u>CONSULTANT-NAME</u>	CONSULTANT-PHONE
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Hospital

<u>HOSPITAL-NAME</u>	HOSPITAL-ADDR
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Patient

<u>PIDNO</u>	PNAME	<u>FAMDOCNO</u>
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Family Doctor

<u>FAMDOCNO</u>	DOCNAME	DOCADDR
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Appointment

<u>PIDNO</u>	APPTMT-DATE	APPTMT-TIME	<u>CONSULTANT-NAME</u>	<u>HOSPITAL-NAME</u>
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