

WELCOME TO OUR PROJECT

COMP3342 T2-SPRING 2024

By Group: Medical Tech

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CONTENT

In this project, we analyze the collaborative healthcare journey of patients like Fatima, involving multiple specialists. Through data exchange and interoperability frameworks, we aim to enhance the quality and efficiency of patient care.

Our scenario

case study timeline

simulated healthcare data

interoperability

5Database

ABOUT US



MEDICAL TECH GROUP



OUR TEAM

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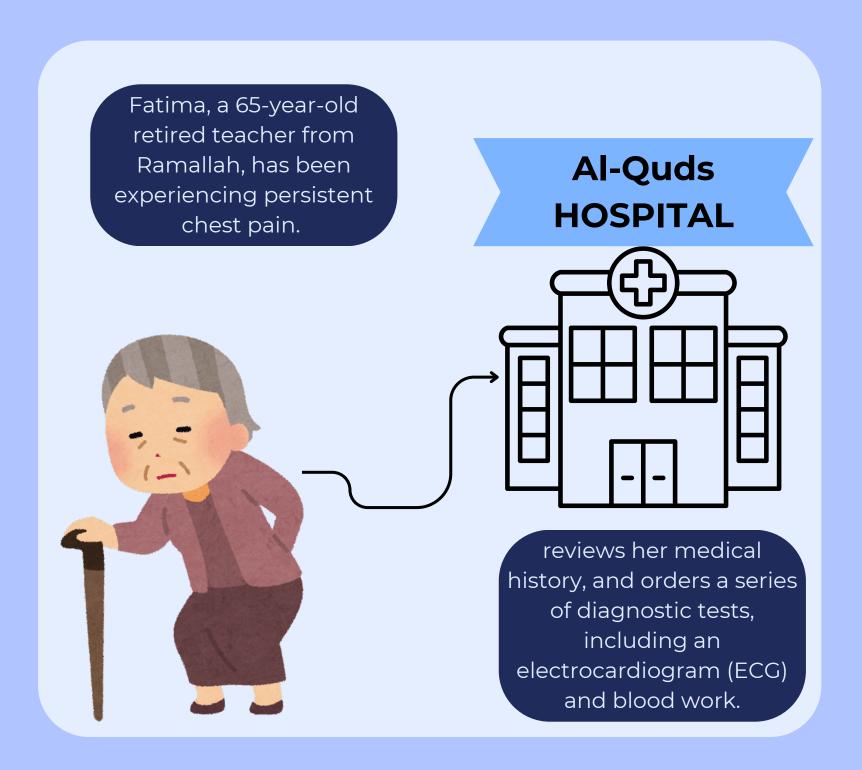
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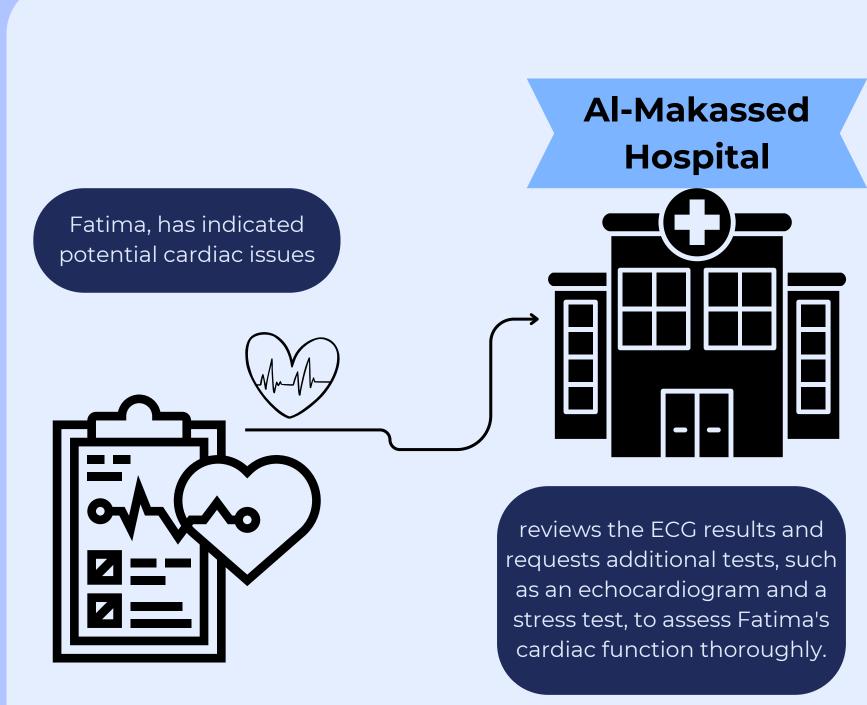
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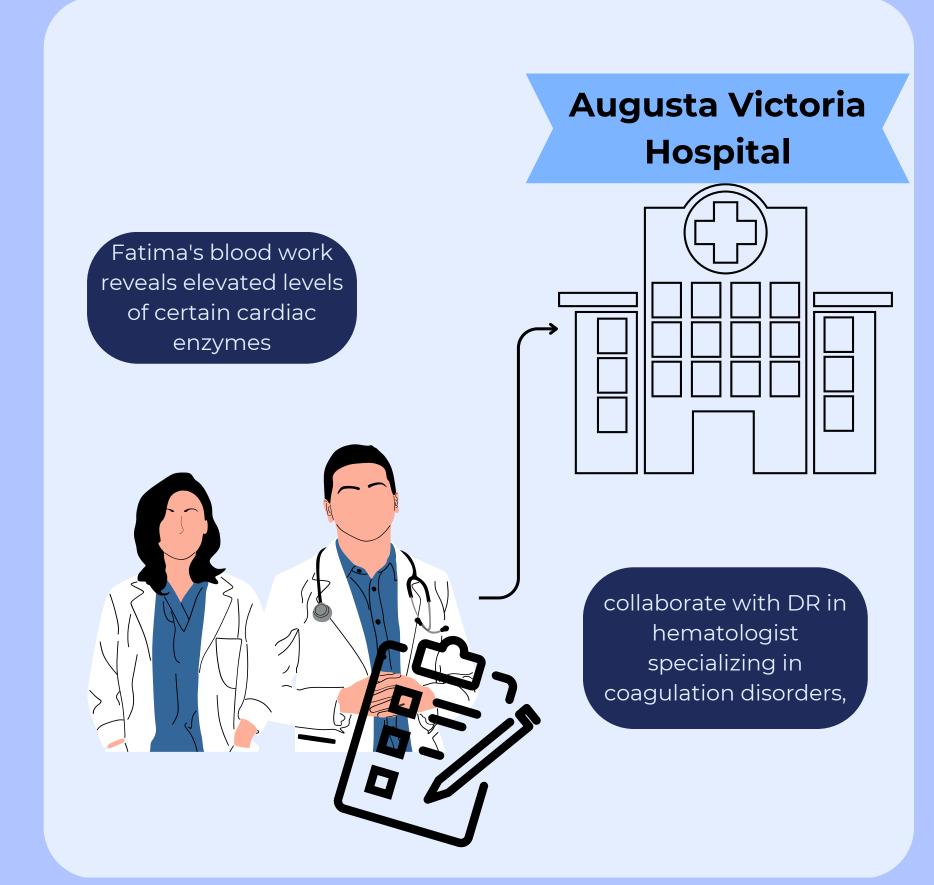
FATIMA, A 65-YEAR-OLD RETIRED TEACHER FROM RAMALLAH, HAS BEEN SUFFERING FROM CONSTANT CHEST PAIN FOR THE PAST MONTH. CONCERNED ABOUT HER HEALTH, SHE MAKES AN APPOINTMENT WITH HER PRIMARY CARE PHYSICIAN, DR. IBRAHIM, AT AL QUDS HOSPITAL. DURING HER CONSULTATION, DR. IBRAHIM WILL CONDUCT A PHYSICAL EXAMINATION, REVIEW HER MEDICAL HISTORY, AND THEN TRANSFER HER TO THE HOSPITAL'S CARDIOLOGY DEPARTMENT. THE PATIENT MEETS WITH DR. MUHAMMAD AND HE ASKS HER FOR A SERIES OF DIAGNOSTIC TESTS, INCLUDING AN ELECTROCARDIOGRAM (ECG). HE SENDS A REQUEST FOR BLOOD TESTS TO HOSPITAL LABORATORY.



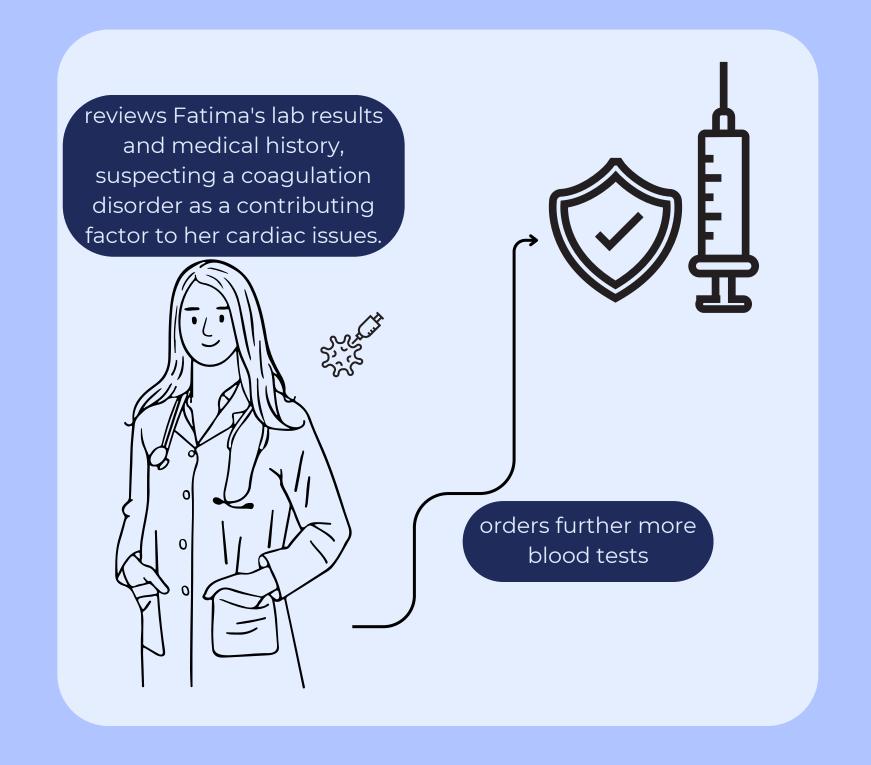
DR. MOHAMMED NOTICED ABNORMALITIES IN FATIMA'S ELECTROCARDIOGRAM, INDICATING POSSIBLE HEART PROBLEMS. HE REFERS HER TO DR. YASSER, A CARDIOLOGIST SPECIALIZING IN THE COMPLEX CARDIOLOGY DEPARTMENT AT AL-MAKASSED HOSPITAL IN JERUSALEM, DR. YASSER REVIEWS THE ECG RESULTS AND ORDERS ADDITIONAL TESTS, SUCH AS AN ECHOCARDIOGRAM AND A STRESS TEST, TO ACCURATELY EVALUATE FATIMA'S HEART FUNCTION.



MEANWHILE, FATIMA'S BLOOD WORK
REVEALS ELEVATED LEVELS OF CERTAIN
CARDIAC ENZYMES, RAISING CONCERNS
ABOUT POSSIBLE MYOCARDIAL DAMAGE. DR.
YASIR DECIDES TO COLLABORATE WITH DR.
SARA, A HEMATOLOGIST SPECIALIZING IN
COAGULATION DISORDERS AT THE AUGUSTA
VICTORIA HOSPITAL IN EAST JERUSALEM, TO
INVESTIGATE POTENTIAL UNDERLYING
CAUSES CONTRIBUTING TO FATIMA'S
CONDITION.



DR. SARA REVIEWS FATIMA'S LAB RESULTS AND MEDICAL HISTORY, SUSPECTING A COAGULATION DISORDER AS A CONTRIBUTING FACTOR TO HER CARDIAC ISSUES. SHE ORDERS FURTHER TESTS, INCLUDING A COAGULATION PANEL AND GENETIC TESTING, TO IDENTIFY ANY ABNORMALITIES IN FATIMA'S BLOOD CLOTTING MECHANISMS.



AS FATIMA'S DIAGNOSTIC JOURNEY PROGRESSES, HER HEALTHCARE TEAM COLLABORATES CLOSELY, SHARING CRUCIAL INFORMATION AND INSIGHTS TO DEVELOP A COMPREHENSIVE TREATMENT PLAN. DR. YASIR PRESCRIBES CARDIAC MEDICATIONS TO MANAGE FATIMA'S SYMPTOMS WHILE AWAITING FURTHER TEST RESULTS. DR. SARA RECOMMENDS ADJUSTMENTS TO FATIMA'S MEDICATION REGIMEN BASED ON HER COAGULATION PROFILE TO MINIMIZE THE RISK OF ADVERSE EVENTS.



THROUGHOUT HER TREATMENT, FATIMA RECEIVES ONGOING SUPPORT FROM A MULTIDISCIPLINARY TEAM COMPRISING HER PRIMARY CARE PHYSICIAN, CARDIOLOGIST, AND HEMATOLOGIST. THIS COLLABORATIVE APPROACH ENSURES THAT FATIMA'S COMPLEX HEALTHCARE NEEDS ARE ADDRESSED COMPREHENSIVELY, INCORPORATING INSIGHTS FROM VARIOUS SPECIALTIES AND TYPES OF HEALTHCARE DATA, INCLUDING MEDICAL RECORDS, DIAGNOSTIC TESTS, AND MEDICATION DATA. BY LEVERAGING THE EXPERTISE OF DIFFERENT HEALTHCARE PROVIDERS, FATIMA RECEIVES PERSONALIZED CARE TAILORED TO HER UNIQUE HEALTH PROFILE, ULTIMATELY IMPROVING HER QUALITY OF LIFE AND OVERALL HEALTH OUTCOMES.

Fatima receives ongoing support from a multidisciplinary team





O2 CASE STUDY TIMELINE



PATIENT HEALTHCARE AND PROVIDER

1.PATIENT PERSONAL INFORMATION	
DATA	DATA TYPR
Name: Fatima	Text
Age: 65	Numerical
Address: Ramallah	Text + Numerical

2.MEDICAL HISTORY	
DATA	DATA TYPE
Name: experiencing chest pain	Text

3.HEALTHCARE PROVIDER		
3.1 DATA	DATA TYPE	
Name: Al-Quds Hospital (QH)	Text	
Address: Al-Quds	Text + Numerical	
Dr name: Ibrahim	Text	

3.2 DATA	DATA TYPE
Name: Heart Department (QHD)	Text
Address: Al-Quds	Text + Numerical
Dr name: Mohammad	Text

3.3 DATA	DATA TYPE
Name: Hospital Lab (QHL)	Text
Address: Al-Quds	Text + Numerical

3.4 DATA	DATA TYPE
Name: Heart Department in Al- Makassed Hospital (HDM)	Text
Address: East Jerusalem	Text + Numerical
Dr name: Yasir	Text

3.5 DATA	DATA TYPE
Name: Augusta Victoria Hospital (AVH)	Text
Address: East Jerusalem	Text + Numerical
Dr name: Sara	Text

3.6 DATA	DATA TYPE
Name: Hospital Lab (AVHL)	Text
Address: East Jerusalem	Text + Numerical

4.PROCEDURES	
4.1 DATA	DATA TYPE
Name: electrocardiogram (ECG)	Text
Purpose: Electrocardiogram diagnosis	Text

4.2 DATA	DATA TYPE
Name: echocardiogram and a stress test	Text
Purpose: Evaluation of cardiac activity	Text

4.3 DATA	DATA TYPE
Name: coagulation panel and genetic testing,	Text
Purpose: identify any abnormalities in blood clotting mechanisms	Text

5.LAB TEST SAMPLE	
5.1 DATA	DATA TYPE
Name: Blood sample	Text
From: Dr. Mohammad	Text

5.2 DATA	DATA TYPE
Name: Blood sample 2	Text
From: Dr. Sara	Text

6.LAB TEST (ORDER)						
6.1 DATA	DATA TYPE					
Name: General examinations	Text					
From: Dr.Mohammad	Text					

6.2 DATA	DATA TYPE
Name: Identify abnormalities in the clotting mechanism	Text
From: Dr.Sara	Text

7.LAB TEST (RESULT)						
7.1 DATA	DATA TYPE					
Name: General Blood Test	Text					
Result: High levels of some cardiac enzymes	Text + Numerical					

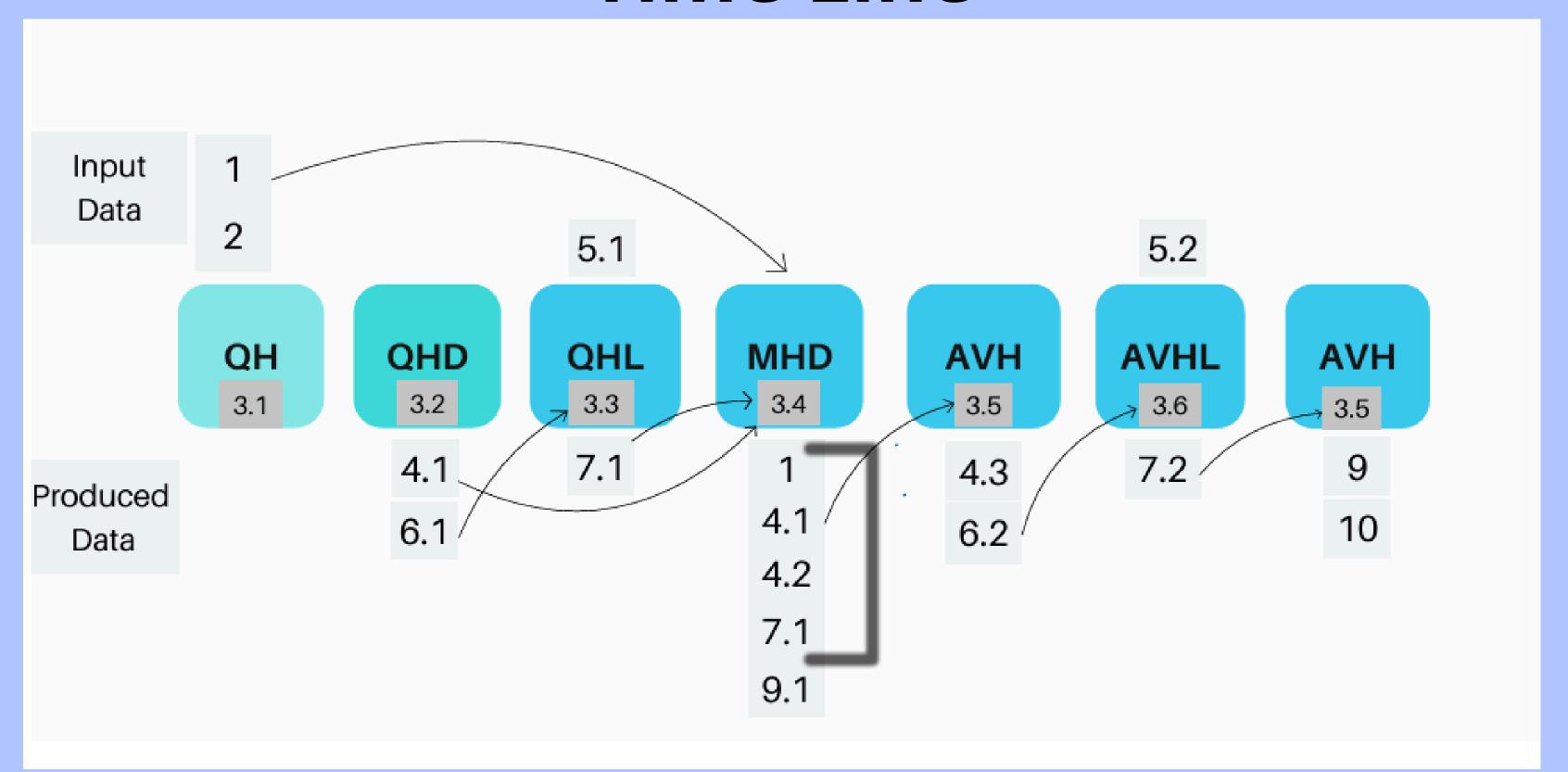
7.2 DATA	DATA TYPE
Name: Blood test for clotting	Text
Result: Blood clotting problems	Text + Numerical

8.DIAGNOSTICS						
DATA DATA TYPE						
Name: Blood clotting disorder	Text					

9.MEDICATION					
DATA	DATA TYPE				
Name: Heart medications	Text				

10.APPOINTMENT						
DATA	DATA TYPE					
Name: Checkup Appointment	Text					
Period/frequency: 2 months	Text					

Time Line



O3 SIMULATED HEALTHCARE DATA



Source 1: Al-Quds Hospital (QC)

ID_pati ent	Name_p atient	Age	Addres s	phone number	Examinati on date	Medical History	Procedures	result	Dr.Na me
122-01	Fatima	65- year	Ramallah	0597002341	01-06-2024	Experiencing chest pain	electrocardiogram (ECG)	abnormalitiest in ECG	Moham mad
122-01	Fatima	65- year	Ramallah	0597002341	01-06-2024	Experiencing chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes	Moham mad
122-35	Ahmad Ali	35	Nablus	0567013551	01-06-2024	chest pain	electrocardiogram (ECG)	abnormalitiest in ECG	Moham mad
122-35	Ahmad Ali	35	Nablus	0567013551	01-06-2024	chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes	Moham mad
122-3	Dana Yasser	56	Ramallah	00970597732531	10-06-2024	chest pain	electrocardiogram (ECG)	abnormalitiest in ECG	Moham mad
122-3	Dana Yasser	56	Ramallah	00970597732531	10-06-2024	chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes	Moham mad

Source 2: Al-Makassed Hospital (MH)

P_ID	P_Name	Age	Addres s	tel	Date	Medical History	Procedure S	result Procedures	Dr.Nam e
1-111	Fatima	65-year	Ramallah	0597002341	03/06/2024	Experiencin g chest pain	echocardiogra m	suspecting a coagulation	Yasir
1-111	Fatima	65-year	Ramallah	0597002341	03/06/2024	Experiencin g chest pain	stress test	suspecting a coagulation	Yasir
12-1	Ahmad Ali	35	Nablus	0567013551	02062024	chest pain	echocardiogra m	suspecting a coagulation	Yasir
1-12	Ahmad Ali	35	Nablus	0567013551	02062024	chest pain	stress test	suspecting a coagulation	Yasir
1-126	Dana Yasser	56	Ramallah	0097059773253 1	13/06/2024	chest pain	echocardiogra m	suspecting a coagulation	Yasir
1-126	Dana Yasser	56	Ramallah	0097059773253 1	13/06/2024	chest pain	stress test	suspecting a coagulation	Yasir

Source 3: Augusta Victoria Hospital

ID	Full name	Age	AD	Namber	Date	M.H	Procedur es	result	Dr.N ame
15.5	Fatima	65-year	Ramallah	0597002341	6 June 2024	Experiencing chest pain	coagulation panel	identify abnormalities in blood clotting mechanisms	Sara
15.5	Fatima	65-year	Ramallah	0597002341	6 June 2024	Experiencing chest pain	genetic testing	identify abnormalities in blood clotting mechanisms	Sara
15.9	Ahmad	35	Nablus dwma	0567013551	8 June	chest pain	coagulation panel	identify abnormalities in blood clotting mechanisms	Sara
15.9	Ahmad	35	Nablus dwma	0567013551	8 June	chest pain	genetic testing	identify abnormalities in blood clotting mechanisms	Sara
177	Dana Yasser	56	Ramallah	009705977325 31	20 June 2024	chest pain	coagulation panel	identify abnormalities in blood clotting mechanisms	Sara
177	Dana Yasser	56	Ramallah	009705977325 31	20 June 2024	chest pain	genetic testing	identify abnormalities in blood clotting mechanisms	Sara

O4 INTEROPERABILITY FLOW



From source 1 to source 2:

S1:

ID_pati ent	Name_p atient	Ag e	Address	phone number	Examinati on date	Medical History	Procedures	result	Dr_Na me
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S2:

	P_ID	P_Name	Age	Addres S	tel	Date	Medical History	Procedure S	result Procedures	Dr_Nam e	
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1. Structural interoperability:

To achieve structural interoperability, S1 to S2

S1.ID_patient = S2.P_ID
S1.Name_patient = S2.P_Name
S1.Age = S2.Age
S1.Address = S2.Address
S1.phoneNumber = S2.tel

From source 2 to source 3:

S2:

P_ID	P_Name	Age	Addres s	tel	Date	Medical History	Procedure S	result Procedures	Dr_Nam e	
S3:										

	ID	Full name	Age	AD	Namber	Date	M.H	Procedur es	result	Dr.N ame	
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1. Structural interoperability:

To achieve structural interoperability, S2 to S3

S2.P_ID = S3.ID	S2.Date = S3.Date
S2.P_Name = S3.FullName	S2.MedicalHistory = S3.MH
S2.Age = S3.Age	S2.Procedures = S3.Procedures
S2.Address = S3.AD	S2.resultProcedures = S3.resultProcedures
S2.tel = S3.Namber	S2.Dr_Name = S3.Dr_Name

2. Syntactic interoperability:

S1:

ID_pati ent	Name_p atient	Age	Addres s	phone number	Examinatio n date	Medical History	Procedures	result	Dr.Name
122-01	Fatima <mark>N2</mark>	65- year	Ramallah	0097059700234 1	01-06-2024	Experiencin g chest pain	electrocardiogram (ECG)	abnormalitiest in ECG	Mohammad
122-01	Fatima <mark>N2</mark>	65- year	Ramallah	0097059700234 1	01-06-2024	Experiencin g chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes	Mohammad
122-35	Ahmad Ali	35- year	Nablus	0097056701355 1	01-06-2024	chest pain	electrocardiogram (ECG)	abnormalitiest in ECG	Mohammad
122-35	Ahmad Ali	35- year	Nablus	0097056701355 1	01-06-2024	chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes	Mohammad
122- <mark>0</mark> 3	Dana Yasser	56- year	Ramallah	0097059773253 1	10-06-2024	chest pain	electrocardiogram (ECG)	abnormalitiest in ECG	Mohammad
122- <mark>0</mark> 3	Dana Yasser	56- year	Ramallah	0097059773253 1	10-06-2024	chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes	Mohammad

P_ID	P_Name	Age	Addres s	tel	Date	Medical History	Procedure s	result Procedures	Dr.Nam e
1-111	Fatima <mark>N2</mark>	65-year	Ramallah	0097059700234 1	03/06/2024	Experiencin g chest pain	echocardiogra m	suspecting a coagulation	Yasir
1-111	Fatima <mark>N2</mark>	65-year	Ramallah	0097059700234 1	03/06/2024	Experiencin g chest pain	stress test	suspecting a coagulation	Yasir
1-012	Ahmad Ali	35-year	Nablus	0097056701355 1	02/06/2024	chest pain	echocardiogra m	suspecting a coagulation	Yasir
1-012	Ahmad Ali	35-year	Nablus	0097056701355 1	02/06/2024	chest pain	stress test	suspecting a coagulation	Yasir
1-126	Dana Yasser	56-year	Ramallah	0097059773253 1	13/06/2024	chest pain	echocardiogra m	suspecting a coagulation	Yasir
1-126	Dana Yasser	56- <mark>year</mark>	Ramallah	0097059773253 1	13/06/2024	chest pain	stress test	suspecting a coagulation	Yasir

ID	Full name	Age	AD	Namber	Date	M.H	Procedur es	result	Dr.N ame
15.5	Fatima N2	65-year	Ramallah	009705970023 41	6 June 2024	Experiencing chest pain	coagulation panel	identify abnormalities in blood clotting mechanisms	Sara
15.5	Fatima N2	65-year	Ramallah	009705970023 41	6 June 2024	Experiencing chest pain	genetic testing	identify abnormalities in blood clotting mechanisms	Sara
15.9	Ahmad N2	35-year	Nablus dwma	009705670135 51	8 June 2024	chest pain	coagulation panel	identify abnormalities in blood clotting mechanisms	Sara
15.9	Ahmad N2	35-year	Nablus dwma	009705670135 51	8 June 2024	chest pain	genetic testing	identify abnormalities in blood clotting mechanisms	Sara
17.7	Dana Yasser	56-year	Ramallah	009705977325 31	20 June 2024	chest pain	coagulation panel	identify abnormalities in blood clotting mechanisms	Sara
17.7	Dana Yasser	56-yea	Ramallah	009705977325 31	20 June 2024	chest pain	genetic testing	identify abnormalities in blood clotting mechanisms	Sara

3. semantic interoperability:

potential terminologies:

Chest Pain: Disease = ICD-10 or SNOMED-CT

Echocardiogram: LOINC or SNOMED-CT

Electrocardiogram (ECG): LOINC or SNOMED-CT

stress test: LOINC

Blood Work: LOINC or SNOMED-CT

Coagulation Panel: LOINC or SNOMED-CT

Genetic Testing: LOINC

Data, from first Record to send from S1 to S2 as a semantically

```
Message 1 = (
ID_patient="122-01", semantictype = none;
Name_patient = "Fatima N2", semantictype = none;
Age = 65 , semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597002341, semantictype = none;
Examination date = 01-06-2024, semantictype = Date;
Medical History = "Experiencing chest pain", semantictype = SNOMED-CT,
code= 29857009;
procedures = "electrocardiogram (ECG)", semantictype = LOINC, code = 2951-2 ;
result = "abnormalitiest in ECG", semantictype = none;
Dr.Name = "Mohammad", semantictype = none;
```

Data, from second Record to send from S1 to S2 as a semantically

```
Message 2 = (
ID_patient="122-01", semantictype = none;
Name_patient = "Fatima N2", semantictype = none;
Age = 65 , semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597002341, semantictype = none;
Examination date = 01-06-2024, semantictype = Date;
Medical History = "Experiencing chest pain", semantictype = SNOMED-CT,
code= 29857009;
procedures = "Blood Work", semantictype = LOINC, code = 57021-8;
result = "reveals elevated levels of certain cardiac enzymes", semantictype
= none;
Dr.Name = "Mohammad", semantictype = none;
```

Data, from third Record to send from S1 to S2 as a semantically

```
Message 3 =(
ID_patient="122-35", semantictype = none;
Name_patient = "Ahmad Ali", semantictype = none;
Age = 35, semantictype = none;
Address = "Nablus", semantictype = none;
Phone Number = 00970567013551, semantictype = none;
Examination date = 01-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "electrocardiogram (ECG)", semantictype = LOINC, code = 2951-2 ;
result = "abnormalitiest in ECG", semantictype = none;
Dr.Name = "Mohammad", semantictype = none;
```

Data, from fourth Record to send from S1 to S2 as a semantically

```
Message 4 =(
ID_patient="122-35", semantictype = none;
Name_patient = "Ahmad Ali", semantictype = none;
Age = 35, semantictype = none;
Address = "Nablus", semantictype = none;
Phone Number = 00970567013551, semantictype = none;
Examination date = 01-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "Blood Work", semantictype = LOINC, code = 57021-8;
result = "reveals elevated levels of certain cardiac enzymes", semantictype =
none;
Dr.Name = "Mohammad", semantictype = none;
```

Data, from fifth Record to send from S1 to S2 as a semantically

```
Message 5 = (
ID_patient="122-03", semantictype = none;
Name_patient = "Dana Yasser", semantictype = none;
Age = 56, semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597732531, semantictype = none;
Examination date = 10-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "electrocardiogram (ECG)", semantictype = LOINC, code = 2951-2;
result = "abnormalitiest in ECG", semantictype = none;
Dr.Name = "Mohammad", semantictype = none;
```

Data, from sixth Record to send from S1 to S2 as a semantically

```
Message 6 = (
ID_patient="122-03", semantictype = none;
Name_patient = "Dana Yasser", semantictype = none;
Age = 56, semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597732531, semantictype = none;
Examination date = 10-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "Blood Work", semantictype = LOINC, code = 57021-8;
result = "reveals elevated levels of certain cardiac enzymes", semantictype =
none;
Dr.Name = "Mohammad", semantictype = none;
```

Data, from first Record to send from S2 to S3 as a semantically

```
Message 7 = (
P_ID="1-111", semantictype = none;
P_Name = "Fatima N2", semantictype = none;
Age = 65, semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597002341, semantictype = none;
Examination date = 03-06-2024, semantictype = Date;
Medical History = "Experiencing chest pain", semantictype = SNOMED-CT,
code= 29857009;
procedures = "echocardiogram", semantictype = LOINC, code = 29265-1;
result = "suspecting a coagulation", semantictype = none;
Dr.Name = "Yasir", semantictype = none;
```

Data, from second Record to send from S2 to S3 as a semantically

```
Message 8 = (
P_ID="1-111", semantictype = none;
P_Name = "Fatima N2", semantictype = none;
Age = 65, semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597002341, semantictype = none;
Examination date = 03-06-2024, semantictype = Date;
Medical History = "Experiencing chest pain", semantictype = SNOMED-CT,
code= 29857009;
procedures = "stress test", semantictype = LOINC, code = 68956-0;
result = "suspecting a coagulation", semantictype = none;
Dr.Name = "Yasir", semantictype = none;
```

Data, from third Record to send from S2 to S3 as a semantically

```
Message 9 = (
P_ID="1-012", semantictype = none;
P_Name = "Ahmad Ali", semantictype = none;
Age = 35, semantictype = none;
Address = "Nablus", semantictype = none;
Phone Number = 00970567013551, semantictype = none;
Examination date = 02-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "echocardiogram", semantictype = LOINC, code = 29265-1;
result = "suspecting a coagulation", semantictype = none;
Dr.Name = "Yasir", semantictype = none;
```

Data, from fourth Record to send from S2 to S3 as a semantically

```
Message 10 =(
P_ID="1-012", semantictype = none;
P_Name = "Ahmad Ali", semantictype = none;
Age = 35, semantictype = none;
Address = "Nablus", semantictype = none;
Phone Number = 00970567013551, semantictype = none;
Examination date = 02-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "stress test", semantictype = LOINC, code = 68956-0;
result = "suspecting a coagulation", semantictype = none;
Dr.Name = "Yasir", semantictype = none;
```

Data, from fifth Record to send from S2 to S3 as a semantically

```
Message 11 =(
P_ID="1-126", semantictype = none;
P_Name = "Dana Yasser", semantictype = none;
Age = 56, semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597732531, semantictype = none;
Examination date = 13-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "echocardiogram", semantictype = LOINC, code = 29265-1;
result = "suspecting a coagulation", semantictype = none;
Dr.Name = "Yasir", semantictype = none;
```

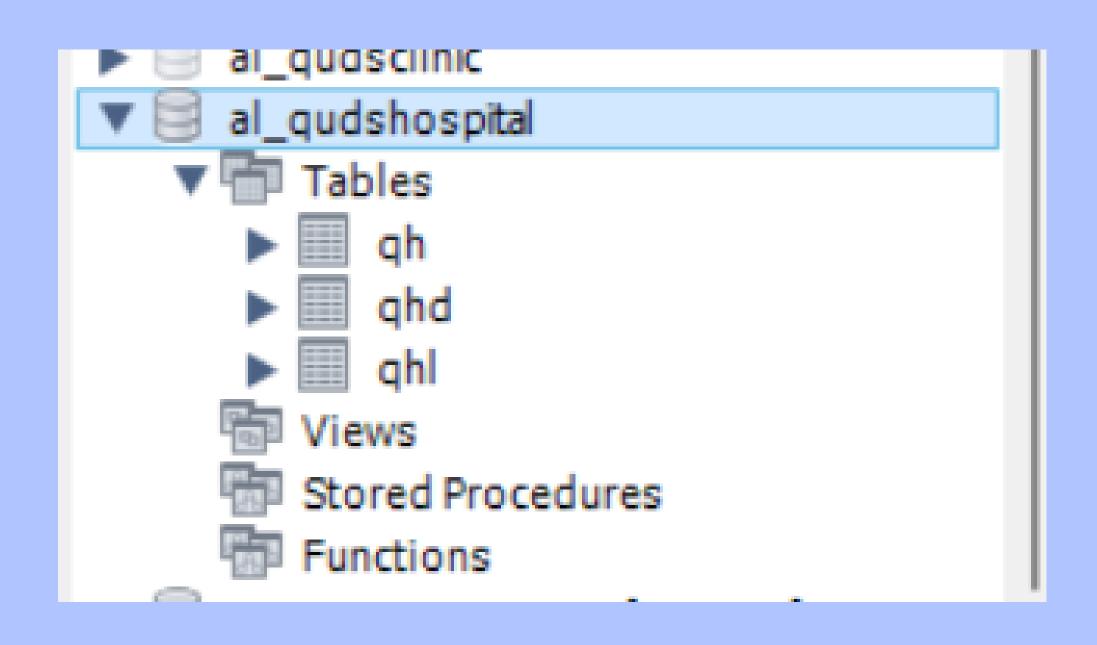
Data, from sixth Record to send from S2 to S3 as a semantically

```
Message 12 =(
P_ID="1-126", semantictype = none;
P_Name = "Dana Yasser", semantictype = none;
Age = 56, semantictype = none;
Address = "Ramallah", semantictype = none;
Phone Number = 00970597732531, semantictype = none;
Examination date = 13-06-2024, semantictype = Date;
Medical History = "chest pain", semantictype = SNOMED-CT, code= 29857009;
procedures = "stress test", semantictype = LOINC, code = 68956-0;
result = "suspecting a coagulation", semantictype = none;
Dr.Name = "Yasir", semantictype = none;
```

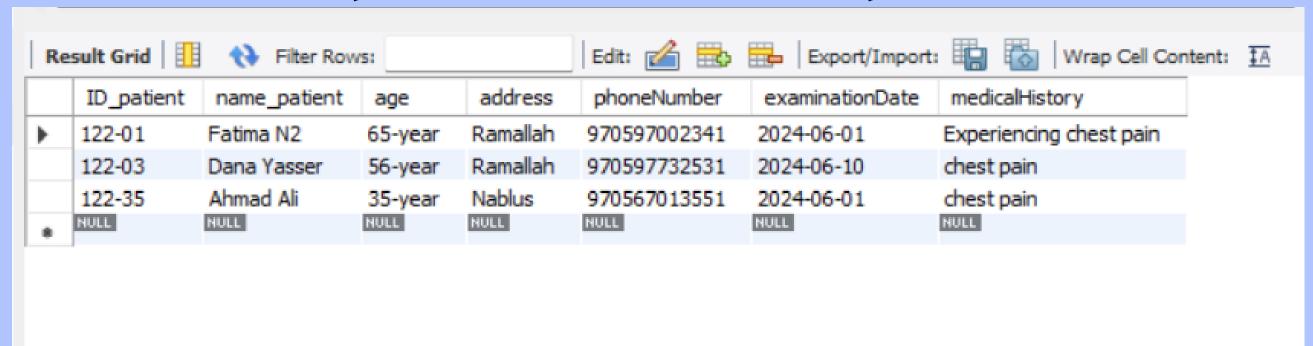
05 DATABASE



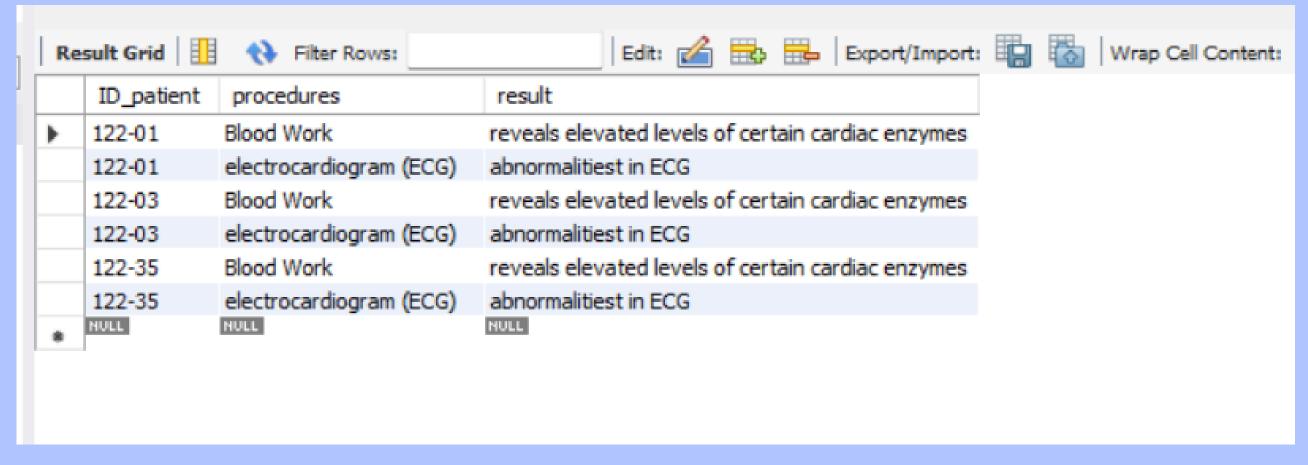
Database Al-Quds Hospital



Al-Quds Hospital (QH)

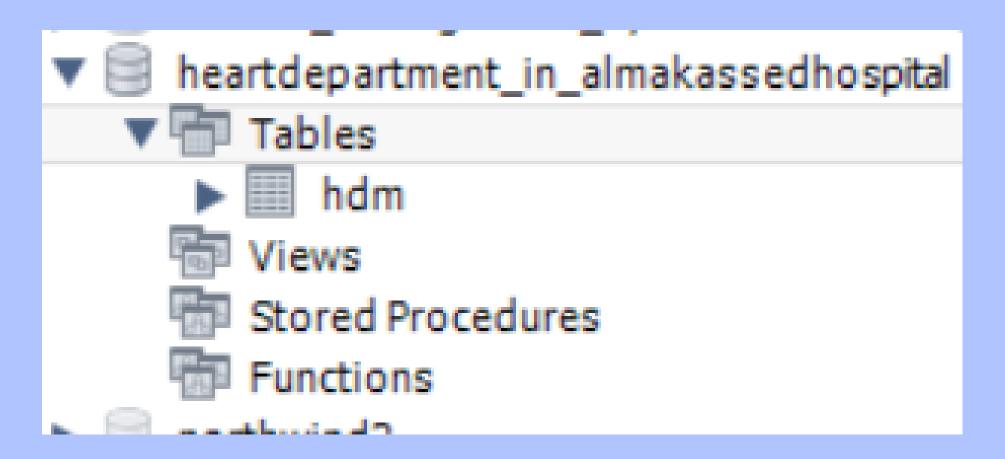


Hospital Lab (QHL)



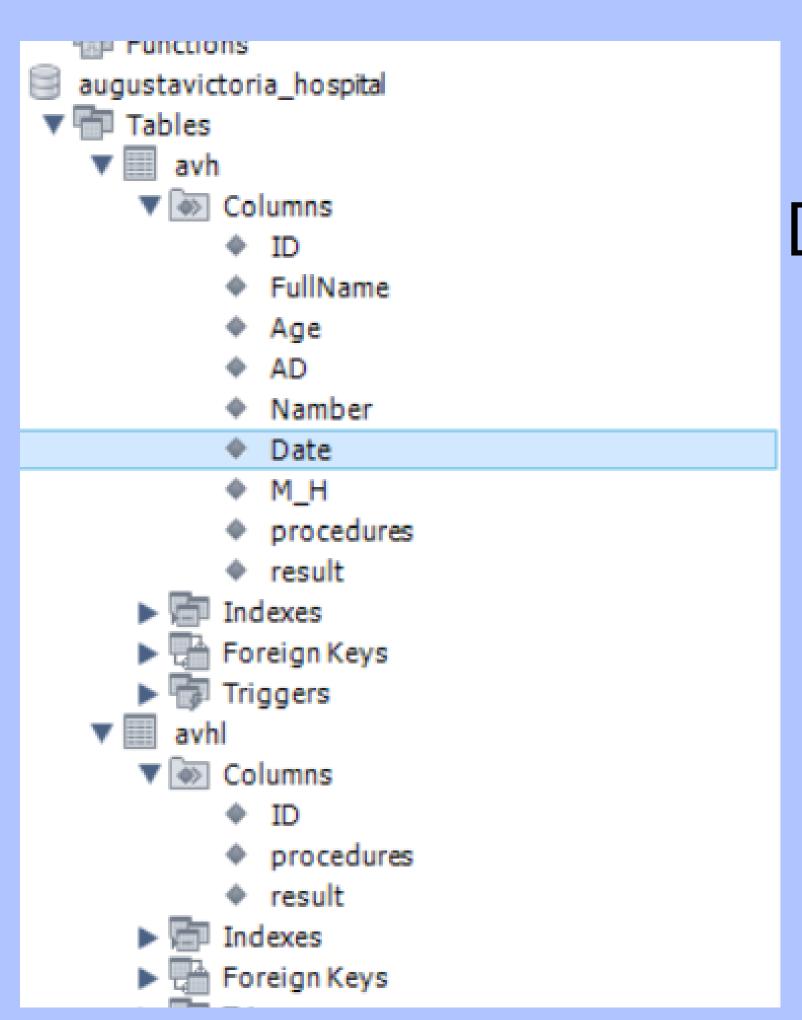
Heart Department (QHD)

Result Grid											
Result Grid					phoneNumber examinationDate		medicalHistory	procedures	result		
	122-01	Fatima N2	65-year	Ramallah	970597002341	2024-06-01	Experiencing chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes		
	122-01	Fatima N2	65-year	Ramallah	970597002341	2024-06-01	Experiencing chest pain	electrocardiogram (ECG)	abnormalitiest in ECG		
	122-03	Dana Yasser	56-year	Ramallah	970597732531	2024-06-10	chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes		
	122-03	Dana Yasser	56-year	Ramallah	970597732531	2024-06-10	chest pain	electrocardiogram (ECG)	abnormalitiest in ECG		
	122-35	Ahmad Ali	35-year	Nablus	970567013551	2024-06-01	chest pain	Blood Work	reveals elevated levels of certain cardiac enzymes		
	122-35	Ahmad Ali	35-year	Nablus	970567013551	2024-06-01	chest pain	electrocardiogram (ECG)	abnormalitiest in ECG		
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL		

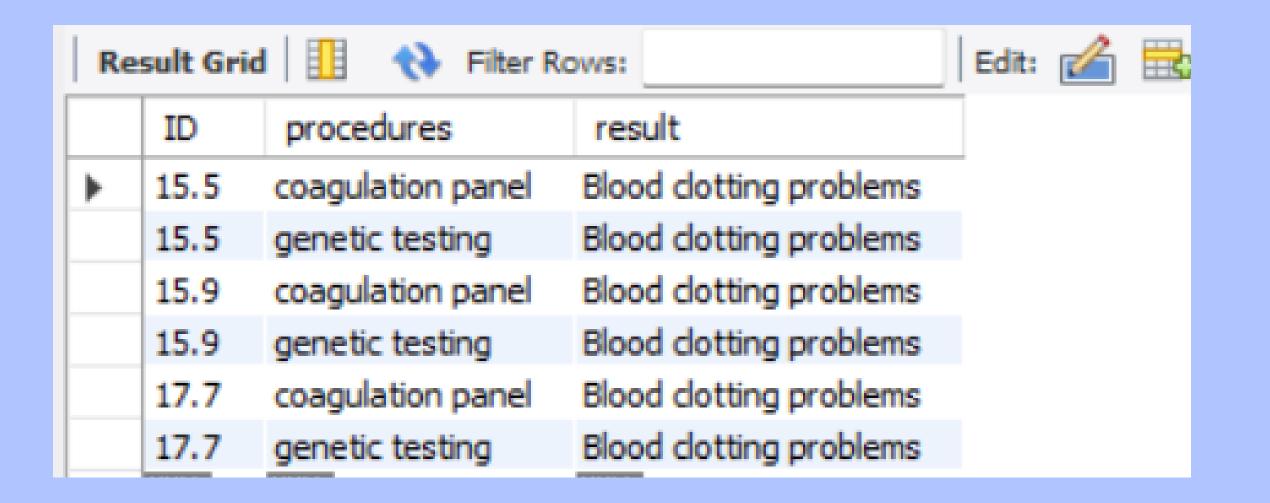


Database Heart Department in Al-Makassed Hospital (HDM)

R	Result Grid 🔢 🛟 Filter Rows: Edit: 🧀 🛱 Export/Import: 🖺 🛣 Wrap Cell Content: 🏗								
	P_ID	P_Name	Age	Address	tel	Date	MedicalHistory	procedures	result
•	1-012	Ahmad Ali	35-year	Nablus	970567013551	2024-06-02	chest pain	echocardiogram	suspecting a coagulation
	1-012	Ahmad Ali	35-year	Nablus	970567013551	2024-06-02	chest pain	stress test	suspecting a coagulation
	1-111	Fatima N2	65-year	Ramallah	970597002341	2024-06-03	Experiencing chest pain	echocardiogram	suspecting a coagulation
	1-111	Fatima N2	65-year	Ramallah	970597002341	2024-06-03	Experiencing chest pain	stress test	suspecting a coagulation
	1-126	Dana Yasser	56-year	Ramallah	970597732531	2024-06-13	chest pain	echocardiogram	suspecting a coagulation
	1-126	Dana Yasser	56-year	Ramallah	970597732531	2024-06-13	chest pain	stress test	suspecting a coagulation
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL



Database Augusta Victoria Hospital (AVH)



Hospital
Lab
(AVHL)

Result Grid											
	ID	FullName	Age	AD	Namber	Date	M_H	procedures	result		
•	15.5	Fatima N2	65-year	Ramallah	970597002341	2024-06-03	Experiencing chest pain	coagulation panel	Blood clotting problems		
	15.5	Fatima N2	65-year	Ramallah	970597002341	2024-06-03	Experiencing chest pain	genetic testing	Blood clotting problems		
	15.9	Ahmad Ali	35-year	Nablus dwma	970567013551	2024-06-02	chest pain	coagulation panel	Blood clotting problems		
	15.9	Ahmad Ali	35-year	Nablus dwma	970567013551	2024-06-02	chest pain	genetic testing	Blood clotting problems		
	17.7	Dana Yasser	56-year	Ramallah	970597732531	2024-06-13	chest pain	coagulation panel	Blood clotting problems		
	17.7	Dana Yasser	56-year	Ramallah	970597732531	2024-06-13	chest pain	genetic testing	Blood clotting problems		
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL		

Augusta Victoria Hospital (AVH)

OUR TEAM



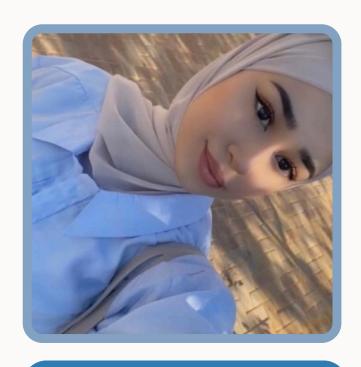
DOAA ASSI

project manager



YARA HAMAD

secretary



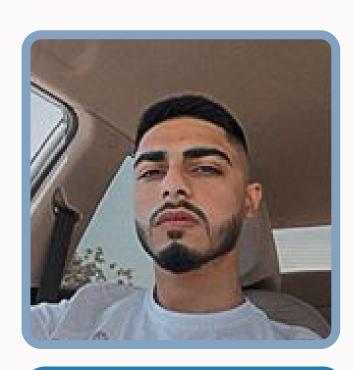
RASHA MANSOUR

System integrator



ANSAM HAMAYEL

management strategy



AHMAD AL SHAMALI

System interoperability engineer

THANKS FOR WATCHING

