


Field Size	25
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	
Validation Text	
Required	Yes 
Allow Zero Length	Yes
Indexed	No
Unicode Compression	Yes
IME Mode	No Control
IME Sentence Mode	None
Text Align	General

## Doctors table

[illegible]

### Field Properties

General		Lookup
Field Size	Long Integer	
Format		
Decimal Places	Auto	
Input Mask		
Caption		
Default Value	0	
Validation Rule		
Validation Text		
Required	No	
Indexed	No	
Text Align	General	

## Wards table

[illegible]

### Field Properties

General    **Lookup**

Field Size	Long Integer
New Values	Increment
Format	
Caption	
Indexed	Yes (No Duplicates)
Text Align	General

```
A file
incl
```

## Assign table

[illegible]

	Field Name	Data Type	Description
1	VisitID	AutoNumber	
2	PatientNumber	Number	
3	DoctorNumber	Number	
4			
5			
6			
7			
8			
9			
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12			
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99			
100			


Field Properties


General		Lookup
Field Size	Long Integer	
New Values	Increment	
Format		
Caption		
Indexed	Yes (No Duplicates)	
Text Align	General	


A field  
includ

## Task 2

1. Define the foreign key relationship between Patients and the Assign tables

Patients	
	PatientsID
	LastName
	FirstName
	PhoneNumber
	DateOfBirth
	DoctorNumber

Wards	
	WardsID
	Location
	Patient
	StartDate

Assign	
	AssignID
	WardsNumber
	PatientNumber

Create New?×

Left Table Name

Patients▼

Right Table Name

Assign▼

Left Column Name

PatientsID▼

Right Column Name

PatientNumber▼

OK

Cancel

☐ Cascade Delete Related Records

**Edit Relationships** ? X

Table/Query:	Related Table/Query:
Patients	Assign
PatientsID	PatientNumber

☒ Enforce Referential Integrity  
☐ Cascade Update Related Fields  
☐ Cascade Delete Related Records

Relationship Type: One-To-Many

Create  
Cancel  
Join Type..  
Create New..

**Create New** ? X

Left Table Name	Right Table Name
Assign	Wards
Left Column Name	Right Column Name
WardsNumber	WardsID

OK Cancel

**Edit Relationships** ? X


Table/Query:	Related Table/Query:
Wards	Assign
WardsID	WardsNumber


☒ Enforce Referential Integrity  
☐ Cascade Update Related Fields  
☐ Cascade Delete Related Records

Relationship Type: One-To-Many

Create  
Cancel  
Join Type..  
Create New..

Patients	
	PatientsID
	LastName
	FirstName
	PhoneNumber
	DateOfBirth
	DoctorNumber

Wards	
	WardsID
	Location
	Patient
	StartDate

Assign	
	AssignID
	WardsNumber
	PatientNumber





3. Define another foreign key relationship between Patients and the Visit

The 'Create New' dialog box is shown with the following settings:

- Left Table Name: Doctors
- Right Table Name: Visit
- Left Column Name: DoctorID
- Right Column Name: DoctorNumber

Buttons: OK, Cancel

The 'Edit Relationships' dialog box is shown with the following settings:

- Table/Query: Doctors
- Related Table/Query: Visit
- Columns: DoctorID (Left), DoctorNumber (Right)
- Enforce Referential Integrity: ☒
- Cascade Update Related Fields: ☐
- Cascade Delete Related Records: ☐
- Relationship Type: One-To-Many

Buttons: Create, Cancel, Join Type.., Create New..

The 'Create New' dialog box is shown with the following settings:

- Left Table Name: Visit
- Right Table Name: Patients
- Left Column Name: PatientNumber
- Right Column Name: PatientsID

Buttons: OK, Cancel

**Edit Relationships** ? X

Table/Query: Patients    Related Table/Query: Visit

PatientsID	PatientNumber

☒ Enforce Referential Integrity  
☐ Cascade Update Related Fields  
☐ Cascade Delete Related Records

Relationship Type: One-To-Many

Create  
Cancel  
Join Type..  
Create New..

**Edit Relationships** ? X

Table/Query: Patients    Related Table/Query: Visit

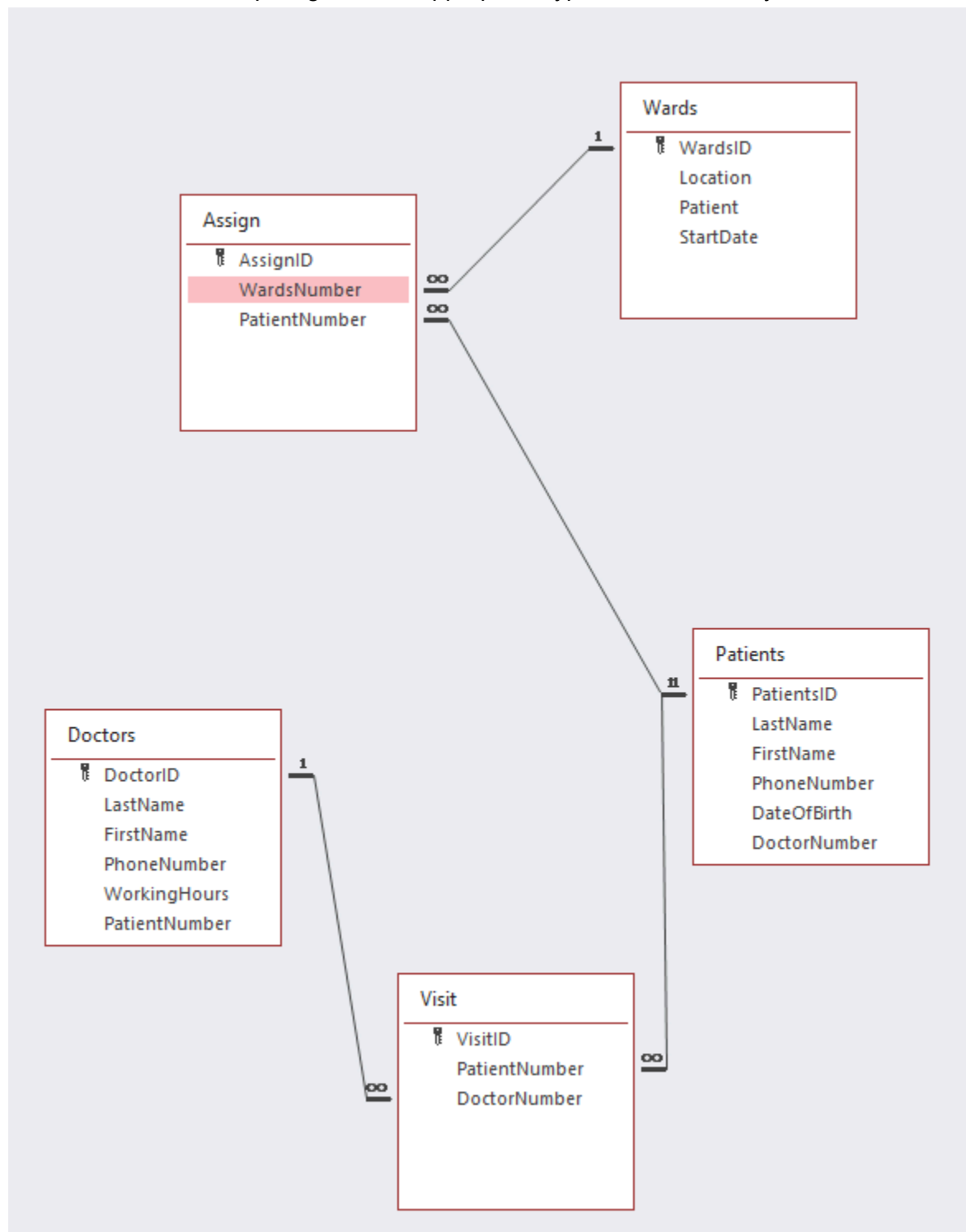
PatientsID	PatientNumber

☒ Enforce Referential Integrity  
☐ Cascade Update Related Fields  
☐ Cascade Delete Related Records

Relationship Type: One-To-Many

Create  
Cancel  
Join Type..  
Create New..

4. Create the relationship diagram with appropriate type of the cardinality



4. Populate each table with five meaningful rows for each five tables

	PatientsID	LastName	FirstName	PhoneNuml	DateOfBirth	DoctorNuml	Click
+	1	Sheredekina	Arina	676-456-2345	2004-04-10	1	
+	2	Pina	Adrian	456-789-1234	2004-04-23	2	
+	3	Hall	Gina	345-789-7890	1978-09-01	3	
+	4	White	Alan	234-987-9078	1988-08-05	4	
+	5	Sky	Andrew	324-6789-4532	2023-06-05	5	

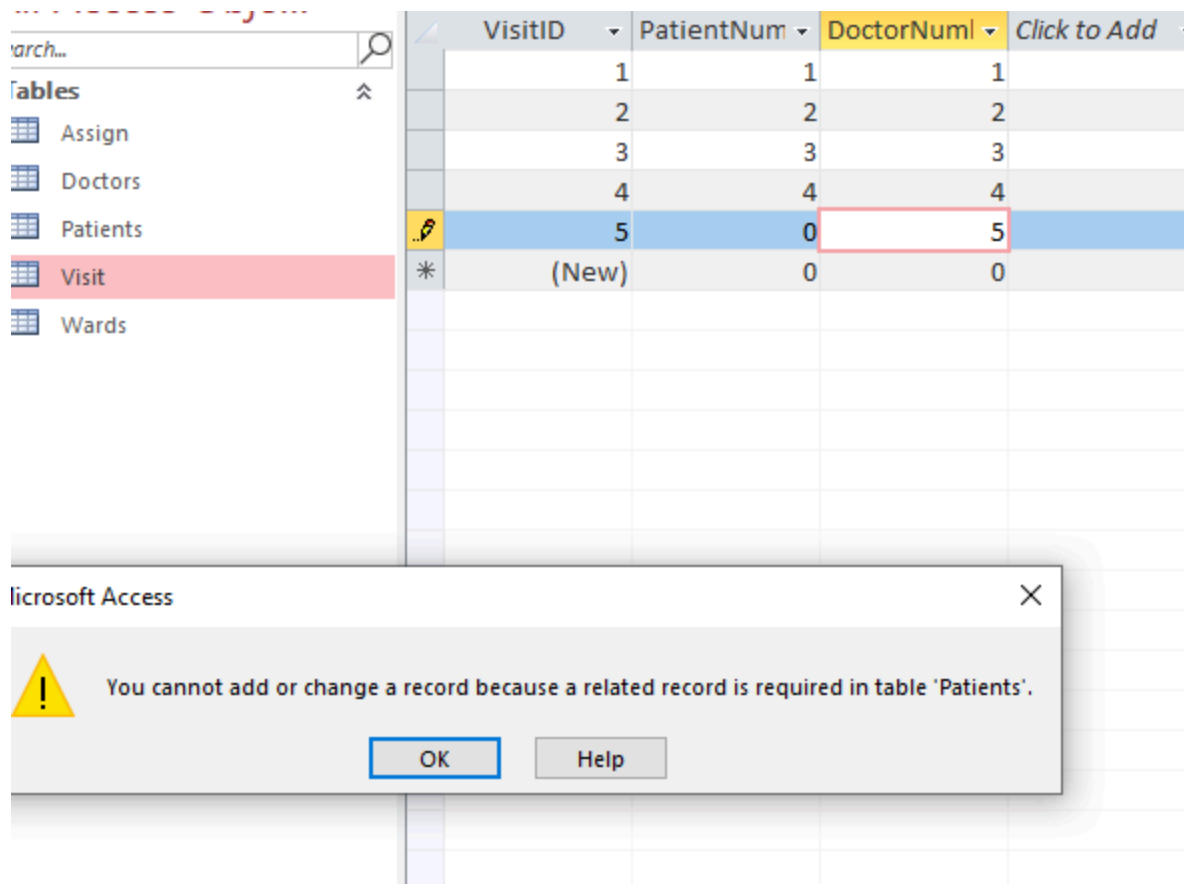
	DoctorID	LastName	FirstName	PhoneNuml	WorkingHou	PatientNum	Click
+	1	Bass	Chuck	567-897-9870	6	1	
+	2	Jonathan	John	345-3456-6754	3	2	
+	3	Lee	Luba	231-324-7685	7	3	
+	4	Thong	Kate	215-789-5643	10	4	
+	5	Tey	Jake	345-908-6789	9	5	

	WardsID	Location	Patient	StartDate	Click
+	1	F1	1	2024-10-08	
+	2	F1	2	2024-10-05	
+	3	F2	3	2024-09-25	
+	4	F4	4	2024-08-13	
+	5	F5	5	2024-02-20	

	VisitID	PatientNum	DoctorNuml	Click
+	1	1	1	
	2	2	2	
	3	3	3	
	4	4	4	
	5	5	5	

	AssignID	WardsNuml	PatientNum	Click
+	1	1	2	
	2	2	1	
	3	3	4	
	4	4	3	
	5	5	5	

4. Violate the foreign key relationship in Visit table when entering rows (DoctorNumber without PatientNumber )

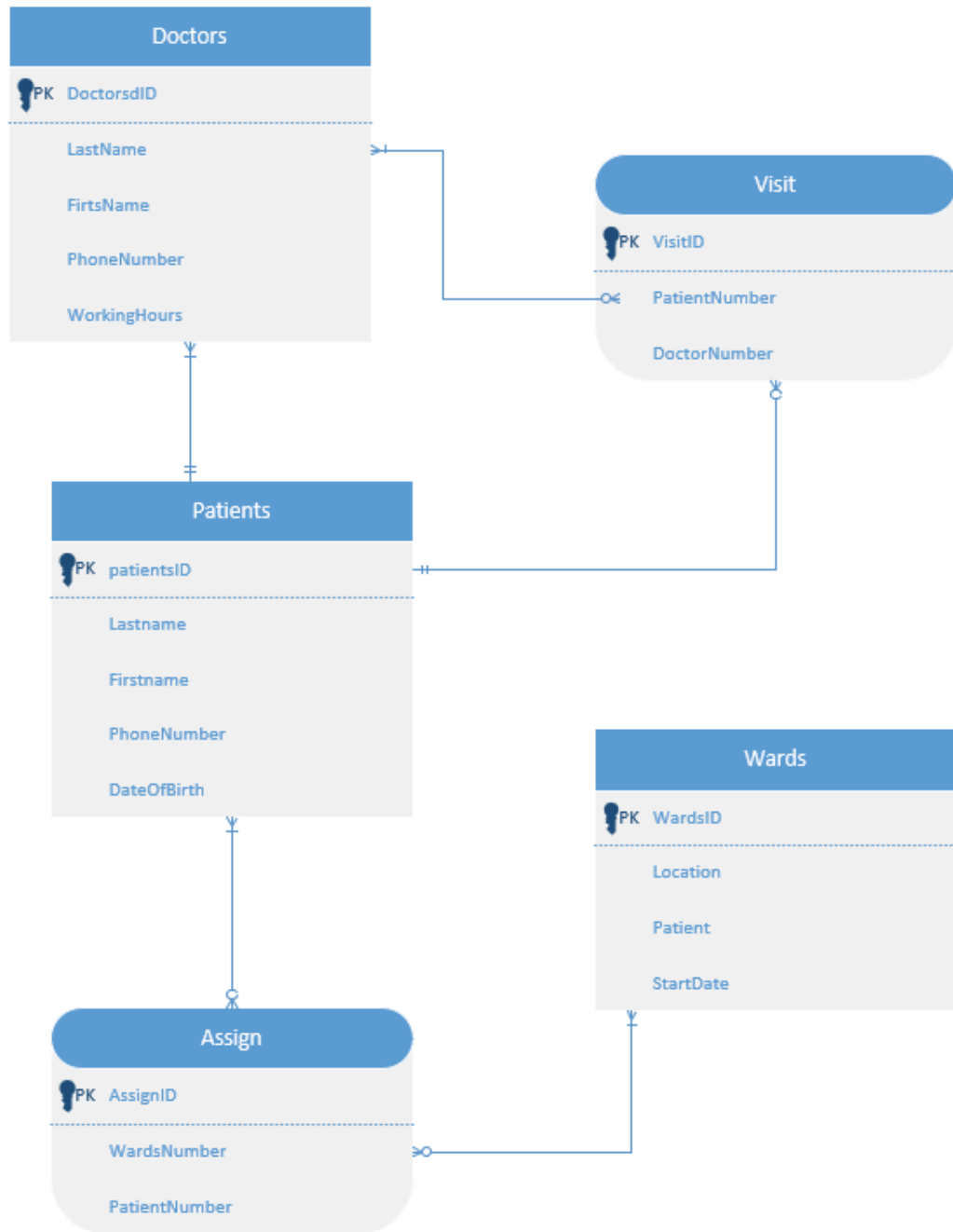


Cardinality table

Doctors-Patients	1-many	One doctor can have many patients , but each patient assign to one doctor
Patient-Wards	1-many	Each patient has one room , but it can be many rooms
Doctors -Visit	1 to 1	Each visit will have one specific doctor and one specific patient
Patient-Assign	1 to 1	Each assign will have one particular patient and one exact room for this patient

### Task 3

1. Assign, Visit are weak entities because they depend on Patients, Doctors and wards



#### Task 4

1. One SQL code to read values from two columns of one of the Patient table => LastName  
Firstname

```
Query1 X
SELECT LastName, FirstName
FROM Patients
```

LastName	FirstName
Sheredekina	Arina
Pina	Adrian
Hall	Gina
White	Alan
Sky	Andrew
*	

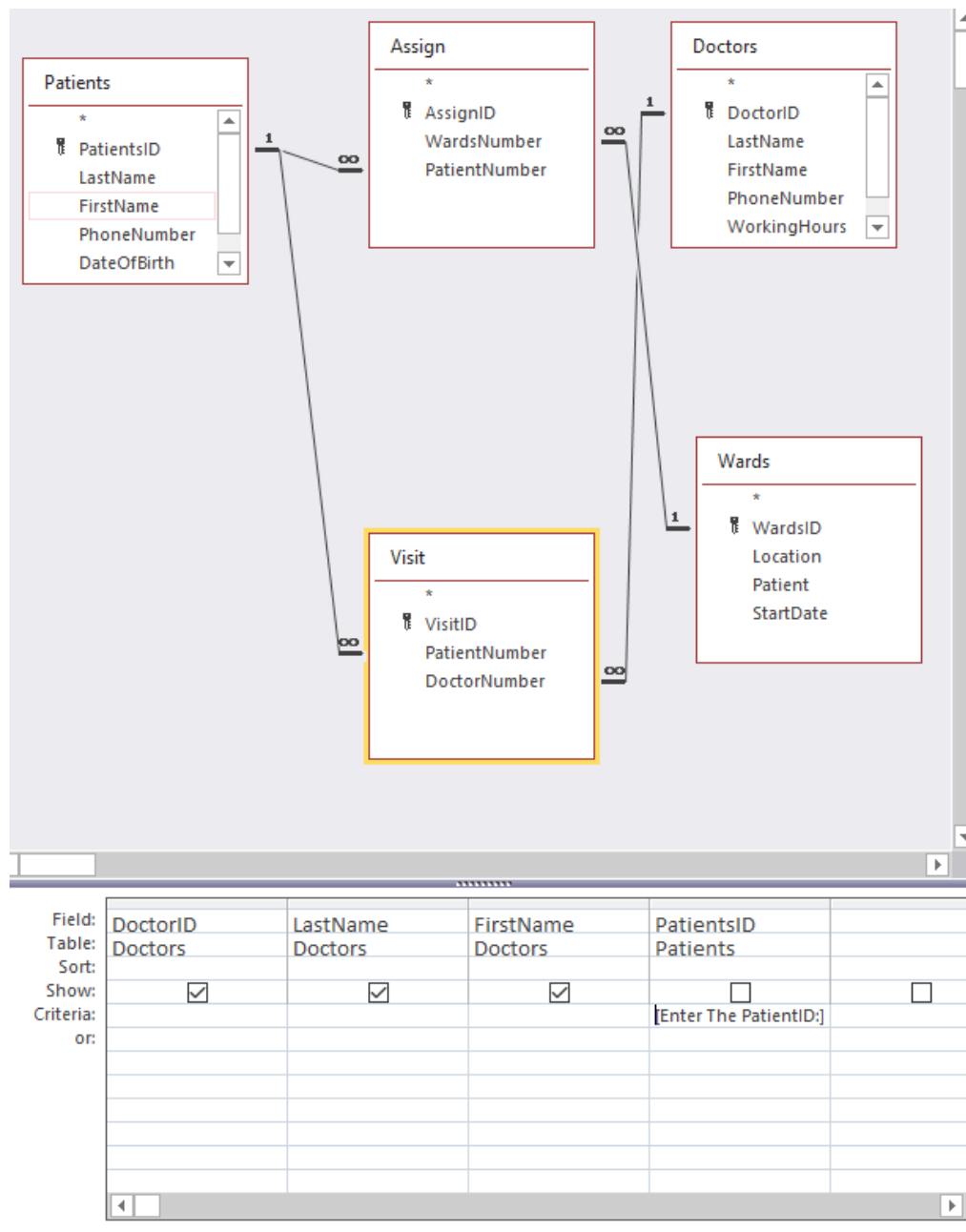
2. Add a row to the wards table (the 6 )

```
Query1 X Query4 X
INSERT INTO WARDS
VALUES('6','F6','6','2024-10-08');
```

+	1	F1	1	2024-10-08
+	2	F1	2	2024-10-05
+	3	F2	3	2024-09-25
+	4	F4	4	2024-08-13
+	5	F5	5	2024-02-20
+	6	F6	6	2024-10-08
	(New)			



### 3. Create a parametrized QBE



WardsNumber 1

Enter Parameter Value ? X

Enter The PatientID:

1

OK Cancel

LastName  
FirstName  
PhoneNum  
WorkingHc

Wards

\*

1

DoctorID	LastName	FirstName
1	Bass	Chuck

```
SELECT Doctors.DoctorID, Doctors.LastName, Doctors.FirstName
FROM Wards INNER JOIN ((Patients INNER JOIN Assign ON Patients.PatientsID = Assign.PatientNumber) INNER JOIN (Doctors INNER JOIN Visit ON Doctors.DoctorID = Visit.DoctorNumber) ON Patients.PatientsID = Visit.PatientNumber) ON Wards.WardsID = Assign.WardsNumber
WHERE (((Patients.PatientsID)=[Enter The PatientID:]));
```

## Task 5

### 1. Create a form

Search...

**Tables**

- Assign
- Doctors
- Patients**
- Visit
- Wards

**Form Wizard**

Which fields do you want on your form?  
You can choose from more than one table or query.

Tables/Queries  
Table: Patients

Available Fields:

- PatientsID
- LastName
- FirstName
- PhoneNumber
- DateOfBirth
- DoctorNumber

Selected Fields:

Cancel < Back **Next >** Finish

#### Form Wizard

Which fields do you want on your form?  
You can choose from more than one table or query.

Tables/Queries  
Table: Patients


Available Fields:

Selected Fields:

- PatientsID
- LastName
- FirstName
- PhoneNumber
- DateOfBirth
- DoctorNumber**

Cancel < Back **Next >** Finish

Form Wizard



What title do you want for your form?

Patients

That's all the information the wizard needs to create your form.

Do you want to open the form or modify the form's design?

☒ Open the form to view or enter information.

☐ Modify the form's design.

Cancel < Back Next > Finish

2. When form is created the changes can be applied for each patient  
1 patient

## Patients

PatientsID

LastName

FirstName

PhoneNumber

DateOfBirth

DoctorNumber

2 patient

Patients

Patients

PatientsID

2

LastName

Pina

FirstName

Adrian

PhoneNumber

456-789-1234

DateOfBirth

2004-04-23

DoctorNumber

2

Record: 2 of 5

No Filter

Search

3 patient

Patients	
PatientsID	<input type="text" value="3"/>
LastName	<input type="text" value="Hall"/>
FirstName	<input type="text" value="Gina"/>
PhoneNumber	<input type="text" value="345-789-7890"/>
DateOfBirth	<input type="text" value="1978-09-01"/>
DoctorNumber	<input type="text" value="3"/>

Record: 3 of 5    No Filter    Search

4 patient

## Patients

PatientsID

4

LastName

White

FirstName

Alan

PhoneNumber

234-987-9078

DateOfBirth

1988-08-05

DoctorNumber

4





## Patients

PatientsID

5

LastName

Sky

FirstName

Andrew

PhoneNumber

324-6789-4532

DateOfBirth

2023-06-05

DoctorNumber

5

