

INFS7901: *PROJECT PART 2*

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UOD:

This database will be designed to be a hospital management system. There will be staff members identified by their unique ID, and their name is recorded. A staff member can be either a doctor or a nurse. For doctors, the type of doctor they are is recorded. For nurses the level of nurse they are is recorded, and they also can supervise other nurses. Their supervisor is recorded. Each nurse only has one supervisor, but a supervising nurse can supervise multiple nurses. Nurses must be assigned to at least one ward. A ward is identified by its name, and the type of ward it is, is recorded. Patients details are recorded in the database, and they are identified by their ID. Their first and last name, phone number, next of kin and next of kin contact number are recorded. A patient must be admitted to a ward, and their admission details are recorded for each stay at the hospital. Their admission can be identified by their admit date to the ward. Each admission also has a discharge date, and using this their stay length can be determined. The hospital also records medications that they have on file. Medications are identified by their ID, and their name and type are recorded. A patient can be given a medication by a staff member, and for each medication given, the time, date and dose given are recorded. Procedures conducted at the hospital are recorded. Each procedure has a unique ID, and the body area and type of procedure is recorded. Doctors can perform procedures on patients, and the date of the procedure performed is recorded.

ENTITIES:

1. Staff Members

- Unique identifier: Staff ID.
- Attributes: Name.
- Categories:
 - **Doctors:** Specific type of doctor recorded.
 - **Nurses:** Level of nurse recorded, supervisory role detailed.
 - Nurses supervise other nurses, recording their supervisory relationship.

2. Wards

- Unique identifier: Ward name.
- Attributes: Type of ward.
- Nurses must be assigned to at least one ward.

3. Patients

- Unique identifier: Patient ID.
- Attributes: First name, last name, phone number, next of kin, and next of kin contact number.
- Relationships:
 - Each patient must be admitted to a ward.

- Admission details: Admit date (serves as a unique identifier for the admission), discharge date, and calculated stay length.

4. Medications

- Unique identifier: Medication ID.
- Attributes: Medication name, type.
- Relationships:
 - Medications can be administered to patients by staff members.
 - Recorded details for each administration: Time, date, and dose.

5. Procedures

- Unique identifier: Procedure ID.
- Attributes: Body area, type of procedure.
- Relationships:
 - Doctors perform procedures on patients.
 - Recorded details: Date of the procedure.

ERD:

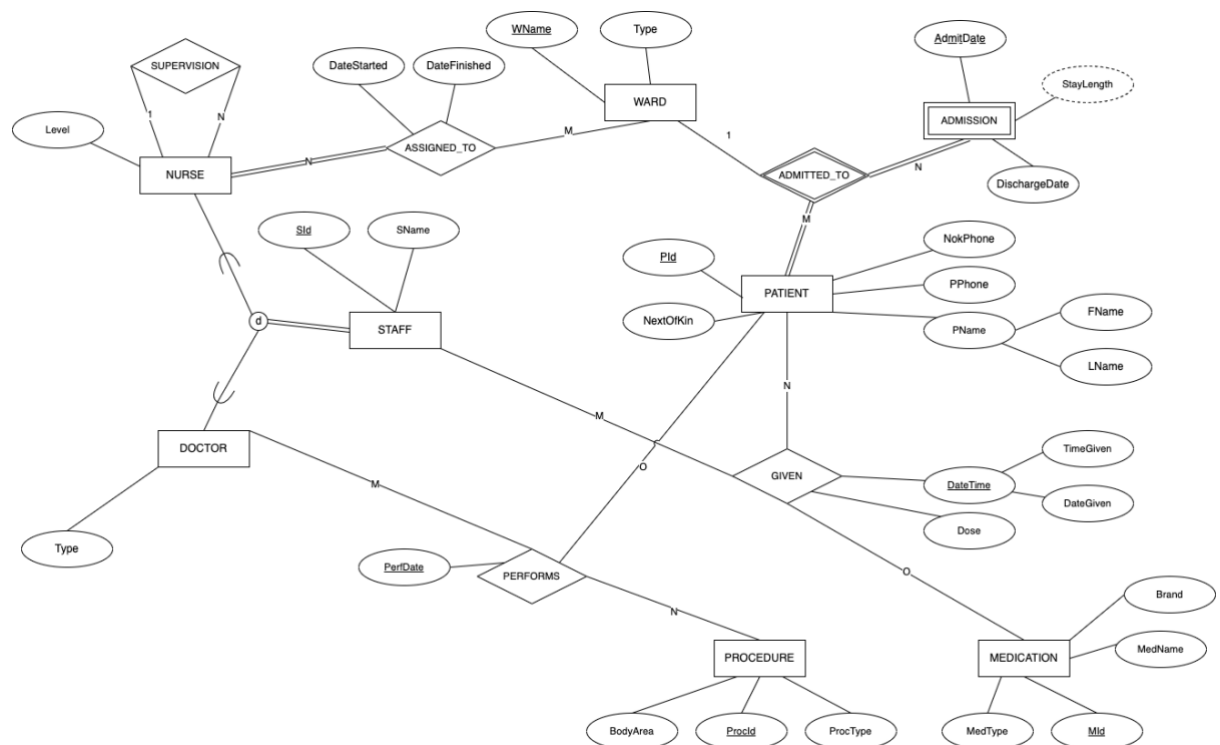


FIGURE 1: ERD: HOSPITAL MANAGEMENT SYSTEM

BCNF TABLES:

PROCEDURE[ProcId: int, BodyArea: varchar(32), ProcType: varchar(32)]

MEDICATION[MId: int, MedName: varchar(32), Brand: varchar(32)]

MED_TYPE[MedName: varchar(32), MedType: varchar(32)]

PATIENT[PId: int, PPhone: int, NextOfKin: varchar(32), NokPhone: int, FName: varchar(32), LName: varchar(32)]

WARD[WName: varchar(32), Type: varchar(32)]

STAFF[SId: int, SName: varchar(32)]

DOCTOR[SId: int, Type: varchar(32)]

NURSE[SId: int, Level: varchar(32), Supervisor: varchar(32)]

ASSIGNED[WName: varchar(32), SId: int, DateStarted: date, DateFinished: date]

GIVEN[SId: int, MId: int, PId: int, TimeGiven: time, DateGiven: date, Dose: varchar(8)]

PERFORMED[SId: int, PId: int, ProcId: int, PerfDate: date]

ADMISSION[PId: int, WName: varchar(32), AdmitDate: date, DischargeDate: date]

FOREIGN KEYS:

ASSIGNED.WName → WARD.WName

ASSIGNED.SId → NURSE.SId

NURSE.SId → STAFF.SId

NURSE.Supervisor → NURSE.SId

PERFORMED.SId → DOCTOR.SId

PERFORMED.PId → PATIENT.PId

PERFORMED.ProcId → PROCEDURE.ProcId

DOCTOR.SId → STAFF.SId

ADMISSION.PId → PATIENT.PId

ADMISSION.WName → WARD.WName

MED_TYPE.MedName → MEDICATION.MedName

QUERY DEMONSTRATION

JOIN QUERY

PURPOSE AND FUNCTION:

This query allows us to find the names of all staff members assigned to the 'Emergency' Ward. We join the STAFF table to the ASSIGNED table to help identify the staff member's name, as only their ID is recorded in the assigned table. The tables are joined on the staff ID. This query is helpful for administrators and managers to help with staffing allotments, capacity planning and timetables.

SQL CODE:

```
SELECT s.SName AS 'Staff Member Name'  
  
FROM ASSIGNED a  
  
JOIN STAFF s ON a.SId = s.SId  
  
WHERE a.WName = 'EMERGENCY';
```

RESULT:



✓ Showing rows 0 - 1 (2 total, Query took 0.0002 seconds.)

```
SELECT s.SName AS 'Staff Member Name' FROM ASSIGNED a JOIN STAFF s ON a.SId = s.SId WHERE a.WName = 'EMERGENCY';
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

[Extra options](#)

Staff Member Name
Andra Poetz
Nils Skarman

FIGURE 2: RESULT FROM JOIN QUERY

BEFORE SCREENSHOT:

SELECT * FROM `ASSIGNED`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PH

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

		WName	SId	DateStarted	DateFinished
<input type="checkbox"/>	Edit Copy Delete	Emergency	1	2023-05-01	NULL
<input type="checkbox"/>	Edit Copy Delete	Emergency	3	2024-05-01	NULL
<input type="checkbox"/>	Edit Copy Delete	ICU	2	2022-05-03	NULL
<input type="checkbox"/>	Edit Copy Delete	ICU	19	2023-05-01	2024-05-01
<input type="checkbox"/>	Edit Copy Delete	Pediatrics	5	2023-05-01	NULL

FIGURE 4: ASSIGNED TABLE - BEFORE QUERY

SELECT * FROM `STAFF`

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☐ Show all | Number of rows: 25 | Filter rows: :

Extra options

		SId	SName
<input type="checkbox"/>	Edit Copy Delete	1	Andra Poetz
<input type="checkbox"/>	Edit Copy Delete	2	Gwen Howerd
<input type="checkbox"/>	Edit Copy Delete	3	Nils Skarman
<input type="checkbox"/>	Edit Copy Delete	4	Georgianna Kingcott
<input type="checkbox"/>	Edit Copy Delete	5	Colleen Humpherson
<input type="checkbox"/>	Edit Copy Delete	6	Daryle Atteridge
<input type="checkbox"/>	Edit Copy Delete	7	Annelise Hartell
<input type="checkbox"/>	Edit Copy Delete	8	Melitta Pindell
<input type="checkbox"/>	Edit Copy Delete	9	Riccardo Marchelli
<input type="checkbox"/>	Edit Copy Delete	10	Ebonee Rivenzon
<input type="checkbox"/>	Edit Copy Delete	11	Zenia Lissandri
<input type="checkbox"/>	Edit Copy Delete	12	Gregorius Drysdell
<input type="checkbox"/>	Edit Copy Delete	13	Adela Inkle
<input type="checkbox"/>	Edit Copy Delete	14	Rhea Mulkerrins
<input type="checkbox"/>	Edit Copy Delete	15	Marquita McQuaid
<input type="checkbox"/>	Edit Copy Delete	16	Niels Tchaikovsky
<input type="checkbox"/>	Edit Copy Delete	17	Fritz Vezey
<input type="checkbox"/>	Edit Copy Delete	18	Billi Cheake
<input type="checkbox"/>	Edit Copy Delete	19	Harlen Antoniazzi
<input type="checkbox"/>	Edit Copy Delete	20	Helen Reckhouse

FIGURE 3: STAFF TABLE - BEFORE QUERY

AFTER SCREENSHOTS:

SELECT * FROM `STAFF`

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☐ Show all | Number of rows: 25 | Filter rows: :

Extra options

		SId	SName
<input type="checkbox"/>	Edit Copy Delete	1	Andra Poetz
<input type="checkbox"/>	Edit Copy Delete	2	Gwen Howerd
<input type="checkbox"/>	Edit Copy Delete	3	Nils Skarman
<input type="checkbox"/>	Edit Copy Delete	4	Georgianna Kingcott
<input type="checkbox"/>	Edit Copy Delete	5	Colleen Humpherson
<input type="checkbox"/>	Edit Copy Delete	6	Daryle Atteridge
<input type="checkbox"/>	Edit Copy Delete	7	Annelise Hartell
<input type="checkbox"/>	Edit Copy Delete	8	Melitta Pindell
<input type="checkbox"/>	Edit Copy Delete	9	Riccardo Marchelli
<input type="checkbox"/>	Edit Copy Delete	10	Ebonee Rivenzon
<input type="checkbox"/>	Edit Copy Delete	11	Zenia Lissandri
<input type="checkbox"/>	Edit Copy Delete	12	Gregorius Drysdell
<input type="checkbox"/>	Edit Copy Delete	13	Adela Inkle
<input type="checkbox"/>	Edit Copy Delete	14	Rhea Mulkerrins
<input type="checkbox"/>	Edit Copy Delete	15	Marquita McQuaid
<input type="checkbox"/>	Edit Copy Delete	16	Niels Tchaikovsky
<input type="checkbox"/>	Edit Copy Delete	17	Fritz Vezey
<input type="checkbox"/>	Edit Copy Delete	18	Billi Cheake
<input type="checkbox"/>	Edit Copy Delete	19	Harlen Antoniazzi
<input type="checkbox"/>	Edit Copy Delete	20	Helen Reckhouse

FIGURE 6: STAFF TABLE - AFTER QUERY

SELECT * FROM `ASSIGNED`

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☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

		WName	SId	DateStarted	DateFinished
<input type="checkbox"/>	Edit Copy Delete	Emergency	1	2023-05-01	NULL
<input type="checkbox"/>	Edit Copy Delete	Emergency	3	2024-05-01	NULL
<input type="checkbox"/>	Edit Copy Delete	ICU	2	2022-05-03	NULL
<input type="checkbox"/>	Edit Copy Delete	ICU	19	2023-05-01	2024-05-01
<input type="checkbox"/>	Edit Copy Delete	Pediatrics	5	2023-05-01	NULL

FIGURE 5: ASSIGNED TABLE - AFTER QUERY

DIVISION QUERY

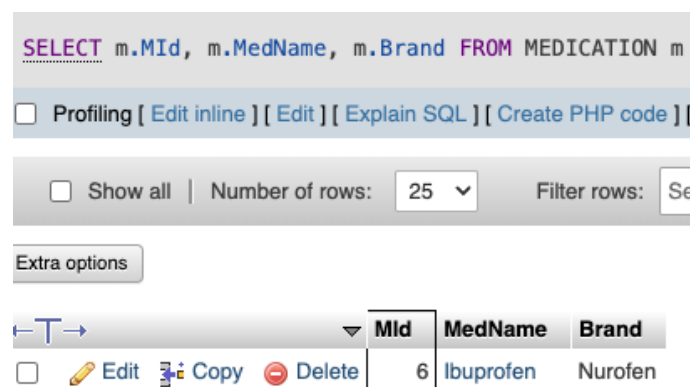
PURPOSE AND FUNCTION:

This query finds the medications that have been given to all patients. That is, there is not any patients that do not have a corresponding entry with the medication in the GIVEN table. There are 2 subqueries used in this division query to manufacture the criteria required, using loop type structure. The subqueries allow us to filter the results of each table, by seeing if the ID exists in the filtered table. This would help to find the medications that are almost essential to being admitted in the hospital. Knowing this information staff could stock up, or provide admission or discharge kits where this medication is provided.

SQL CODE:

```
SELECT m.MId, m.MedName, m.Brand
FROM MEDICATION m
WHERE NOT EXISTS (
    SELECT p.PId
    FROM PATIENT p
    WHERE NOT EXISTS (
        SELECT g.MId
        FROM GIVEN g
        WHERE g.MId = m.MId AND g.PId = p.PId
    )
);
```

RESULT:



SELECT m.MId, m.MedName, m.Brand FROM MEDICATION m

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Se

Extra options

	MId	MedName	Brand
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Ibuprofen	Nurofen

FIGURE 7: RESULT FROM DIVISION QUERY

BEFORE SCREENSHOT:

SELECT * FROM `MEDICATION`

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Render\]](#)

☐ Show all | Number of rows: Filter rows:

Extra options

			Mid	MedName	Brand
<input type="checkbox"/>	Edit	Copy	Delete	1 Acetaminophen	Tylenol
<input type="checkbox"/>	Edit	Copy	Delete	2 Acetaminophen	Panadol
<input type="checkbox"/>	Edit	Copy	Delete	3 Albuterol	Ventolin
<input type="checkbox"/>	Edit	Copy	Delete	4 Albuterol	ProAir
<input type="checkbox"/>	Edit	Copy	Delete	5 Amoxicillin	Amoxil
<input type="checkbox"/>	Edit	Copy	Delete	6 Ibuprofen	Nurofen
<input type="checkbox"/>	Edit	Copy	Delete	7 Metformin	Axpinet
<input type="checkbox"/>	Edit	Copy	Delete	8 Lisinopril	Zestril

FIGURE 10: MEDICATION TABLE - BEFORE QUERY

SELECT * FROM "PATIENT"

☐ Profiling | [Edit inline](#) | [\[Edit \]](#) | [\[Explain SQL \]](#) | [\[Create PHP code \]](#) | [\[Refresh \]](#)

☐ Show all | Number of rows: | Filter rows: | Sort by key:

Extra options

		PId	PPhone	NextOfKin	NokPhone	FName	LName
<input type="checkbox"/>	Edit Copy Delete	1 2499057624	John Doe	3001953095	Chiquia	Penniall	
<input type="checkbox"/>	Edit Copy Delete	2 2610056741	Jane Smith	3906254782	Claudine	Guare	
<input type="checkbox"/>	Edit Copy Delete	3 2904873218	Chris Brown	6044335041	Harlene	Gladfith	
<input type="checkbox"/>	Edit Copy Delete	4 8795185657	Judy Dent	3813261914	Robbert	Prattin	
<input type="checkbox"/>	Edit Copy Delete	5 2446414741	Jeaz Louise	5488190763	Loria	Keat	
<input type="checkbox"/>	Edit Copy Delete	6 7484530519	Phil Magroin	3574238111	Deane	Ailwright	
<input type="checkbox"/>	Edit Copy Delete	7 6042757471	Michael Johnson	9011935724	Fiora	Winnsorrow	
<input type="checkbox"/>	Edit Copy Delete	8 9698688754	Pu Peh	1703278396	Liza	Hinschenko	
<input type="checkbox"/>	Edit Copy Delete	9 9158471908	Tuchma Sorolum	8588740041	Genni	Sternelt	
<input type="checkbox"/>	Edit Copy Delete	10 1336214778	Jeremy Phyllis	8967233555	Will	Bracken	
<input type="checkbox"/>	Edit Copy Delete	11 2365909816	Elen Croutin	3812357295	Jephatha	Croad	
<input type="checkbox"/>	Edit Copy Delete	12 3546182995	Jane Doe	7057064119	Tully	Greg	
<input type="checkbox"/>	Edit Copy Delete	13 4847332442	Christ Black	8123996104	Vin	Anderbrugge	
<input type="checkbox"/>	Edit Copy Delete	14 7700814022	Christopher Mung	2011075806	Jimmey	Farragher	

FIGURE 9: PATIENT TABLE - BEFORE QUERY

SELECT * FROM `GIVEN`

☐ Profiling | [Edit inline](#) | [Edit](#) | [Writing SQL](#) | [Create PHP code](#) | [Refresh](#)

☐ Show all | Number of rows: **25** | Filter rows: Sort by

Extra options

			Sid	Mid	Pld	TimeGiven	DateGiven	Dose
<input type="checkbox"/>	Edit	Copy	Delete	1	6	2 19:37:21	2024-05-01	140mcg
<input type="checkbox"/>	Edit	Copy	Delete	1	6	13 19:44:38	2024-05-02	90mcg
<input type="checkbox"/>	Edit	Copy	Delete	2	6	11 19:51:37	2024-05-03	120mcg
<input type="checkbox"/>	Edit	Copy	Delete	4	6	4 19:38:23	2024-05-06	100mcg
<input type="checkbox"/>	Edit	Copy	Delete	5	6	6 19:40:54	2024-05-05	90mcg
<input type="checkbox"/>	Edit	Copy	Delete	5	6	10 19:43:11	2024-05-01	90mcg
<input type="checkbox"/>	Edit	Copy	Delete	7	6	3 19:57:56	2024-05-04	120mcg
<input type="checkbox"/>	Edit	Copy	Delete	13	6	1 19:38:08	2024-05-03	120mcg
<input type="checkbox"/>	Edit	Copy	Delete	15	6	14 19:44:59	2024-05-03	100mcg
<input type="checkbox"/>	Edit	Copy	Delete	15	8	11 19:52:32	2024-05-03	120mcg
<input type="checkbox"/>	Edit	Copy	Delete	17	5	6 19:51:10	2024-05-02	100mg
<input type="checkbox"/>	Edit	Copy	Delete	17	6	7 19:39:47	2024-05-08	100mcg
<input type="checkbox"/>	Edit	Copy	Delete	17	6	12 19:43:40	2024-05-02	90mcg
<input type="checkbox"/>	Edit	Copy	Delete	18	3	12 19:50:32	2024-05-01	240mcg
<input type="checkbox"/>	Edit	Copy	Delete	18	6	5 19:39:23	2024-05-07	100mcg
<input type="checkbox"/>	Edit	Copy	Delete	18	6	9 19:41:59	2024-05-06	80mcg
<input type="checkbox"/>	Edit	Copy	Delete	20	6	8 19:41:26	2024-05-07	90mcg

FIGURE 8:GIVEN TABLE - BEFORE QUERY

AFTER SCREENSHOTS:

SELECT * FROM `MEDICATION`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Re-run \]](#)

☐ Show all | Number of rows: Filter rows:

[Extra options](#)

			Mid	MedName	Brand
<input type="checkbox"/>				1 Acetaminophen	Tylenol
<input type="checkbox"/>				2 Acetaminophen	Panadol
<input type="checkbox"/>				3 Albuterol	Ventolin
<input type="checkbox"/>				4 Albuterol	ProAir
<input type="checkbox"/>				5 Amoxicillin	Amoxil
<input type="checkbox"/>				6 Ibuprofen	Nurofen
<input type="checkbox"/>				7 Metformin	Axipnet
<input type="checkbox"/>				8 Lisinopril	Zestril

FIGURE 13: MEDICATION TABLE – AFTER QUERY

SELECT * FROM "PATIENT"

☐ Profiling

☐ Show all
Number of rows:
Filter rows:
Sort by key:

				PId	PPhone	NextOfKin	NokPhone	FName	LName
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	2499067824	John Doe	3001953095	Chiquia	Penniall
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	2616056471	Jane Smith	3906247362	Claudine	Guare
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	2904873218	Chris Brown	6044335041	Harlene	Gladihof
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	8795185867	Judy Dent	3381328914	Robbert	Prattin
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	2448414741	Jeez Louise	5488190763	Loria	Kast
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	7484530519	Phil Magroin	3574238111	Deane	Allwright
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	6042757471	Michael Johnson	9011935724	Flora	Winsborrow
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	9698688754	Pu Poh	1703278396	Lia	Hirinschenko
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	9158471906	Tuchna Scrotum	8588740041	Genni	Stenett
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	1336214778	Jeremy Phyllis	8987235555	Willi	Bracken
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11	2365990916	Enid Cylon	3125378925	Jephthah	Croad
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	4846122995	Jane Doe	7097064119	Julij	Grgg
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	3547332442	Christa Black	8123996194	Tim	Andruberugg
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	14	7700814022	Christopher Mung	2010785958	Vincenry	Farraghe

FIGURE 12: PATIENT TABLE - AFTER QUERY

SELECT * FROM GIVEN

☐ Profiling
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 [Edit]
 [Expand SQL]
 [Create PHP code]
 [Refresh]

☐ Show all
 | Number of rows: 25
 | Filter rows:

Sort

Extra options

					Sid	Mid	Pid	TimeGiven	DateGiven	Dose
<input type="checkbox"/>					1	6	2	19:37:21	2024-05-01	140mg
<input type="checkbox"/>					1	6	13	19:44:38	2024-05-02	90mg
<input type="checkbox"/>					2	6	11	19:51:37	2024-05-03	120mg
<input type="checkbox"/>					4	6	4	19:38:23	2024-05-06	100mg
<input type="checkbox"/>					5	6	6	19:40:54	2024-05-06	90mg
<input type="checkbox"/>					5	6	10	19:43:11	2024-05-01	90mg
<input type="checkbox"/>					7	6	3	19:37:58	2024-05-04	120mg
<input type="checkbox"/>					13	6	1	19:36:08	2024-05-03	120mg
<input type="checkbox"/>					15	6	14	19:49:58	2024-05-03	100mg
<input type="checkbox"/>					15	8	11	19:52:32	2024-05-03	120mg
<input type="checkbox"/>					17	5	6	19:51:10	2024-05-02	100mg
<input type="checkbox"/>					17	6	7	19:39:47	2024-05-08	100mg
<input type="checkbox"/>					17	6	12	19:43:40	2024-05-08	90mg
<input type="checkbox"/>					18	3	12	19:50:32	2024-05-01	240mg
<input type="checkbox"/>					18	6	5	19:39:23	2024-05-07	100mg
<input type="checkbox"/>					18	6	9	19:41:59	2024-05-06	80mg
<input type="checkbox"/>					20	6	8	19:41:26	2024-05-07	90mg

FIGURE 11: GIVEN TABLE - AFTER QUERY

AGGREGATION QUERY

PURPOSE AND FUNCTION:

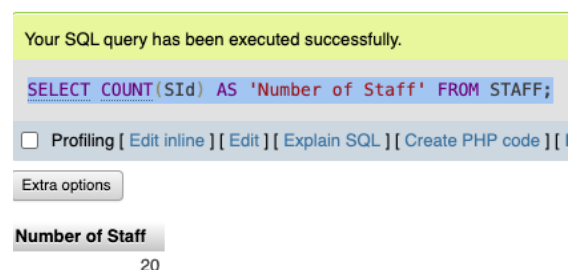
This query counts the number of staff members in the database, which would likely be the total number of staff that had worked at the hospital since the database was set up. This can be useful combined with other queries to determine the percentage of staff turnover, percentage of staff in different wards, etc.

SQL CODE:

```
SELECT COUNT(SId) AS 'Number of Staff'
```

```
FROM STAFF;
```

RESULT:



Your SQL query has been executed successfully.

```
SELECT COUNT(SId) AS 'Number of Staff' FROM STAFF;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[...](#)]

Extra options

Number of Staff

20

FIGURE 14: RESULT OF AGGREGATION QUERY

BEFORE SCREENSHOT:



```
SELECT * FROM `STAFF`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[...](#)]

☐ Show all | Number of rows: 25 | Filter rows: [[...](#)]

Extra options

	SId	SName
<input type="checkbox"/> Edit Copy Delete	1	Andra Poetz
<input type="checkbox"/> Edit Copy Delete	2	Gwen Howerd
<input type="checkbox"/> Edit Copy Delete	3	Nils Skarman
<input type="checkbox"/> Edit Copy Delete	4	Georgianna Kingcott
<input type="checkbox"/> Edit Copy Delete	5	Colleen Humpherston
<input type="checkbox"/> Edit Copy Delete	6	Daryle Atteridge
<input type="checkbox"/> Edit Copy Delete	7	Annelise Hartell
<input type="checkbox"/> Edit Copy Delete	8	Melitta Pindell
<input type="checkbox"/> Edit Copy Delete	9	Riccardo Marchelli
<input type="checkbox"/> Edit Copy Delete	10	Ebonee Rivenzon
<input type="checkbox"/> Edit Copy Delete	11	Zenia Lissandri
<input type="checkbox"/> Edit Copy Delete	12	Gregorius Drysdell
<input type="checkbox"/> Edit Copy Delete	13	Adela Inkle
<input type="checkbox"/> Edit Copy Delete	14	Rhea Mulkerrins
<input type="checkbox"/> Edit Copy Delete	15	Marquita McQuaid
<input type="checkbox"/> Edit Copy Delete	16	Niels Tchaikovsky
<input type="checkbox"/> Edit Copy Delete	17	Fritz Vezey
<input type="checkbox"/> Edit Copy Delete	18	Billi Cheake
<input type="checkbox"/> Edit Copy Delete	19	Harlen Antoniazzi
<input type="checkbox"/> Edit Copy Delete	20	Helen Reckhouse

FIGURE 15: STAFF TABLE - BEFORE QUERY

AFTER SCREENSHOTS:

SELECT * FROM `STAFF`

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Export](#)]

☐ Show all | Number of rows: 25 | Filter rows: []

Extra options

				SId	SName
<input type="checkbox"/>	Edit	Copy	Delete	1	Andra Poetz
<input type="checkbox"/>	Edit	Copy	Delete	2	Gwen Howerd
<input type="checkbox"/>	Edit	Copy	Delete	3	Nils Skarman
<input type="checkbox"/>	Edit	Copy	Delete	4	Georgianna Kingcott
<input type="checkbox"/>	Edit	Copy	Delete	5	Colleen Humpherston
<input type="checkbox"/>	Edit	Copy	Delete	6	Daryle Atteridge
<input type="checkbox"/>	Edit	Copy	Delete	7	Annelise Hartell
<input type="checkbox"/>	Edit	Copy	Delete	8	Melitta Pindell
<input type="checkbox"/>	Edit	Copy	Delete	9	Riccardo Marchelli
<input type="checkbox"/>	Edit	Copy	Delete	10	Ebonee Rivenzon
<input type="checkbox"/>	Edit	Copy	Delete	11	Zenia Lissandri
<input type="checkbox"/>	Edit	Copy	Delete	12	Gregorius Drysdell
<input type="checkbox"/>	Edit	Copy	Delete	13	Adela Inkle
<input type="checkbox"/>	Edit	Copy	Delete	14	Rhea Mulkerrins
<input type="checkbox"/>	Edit	Copy	Delete	15	Marquita McQuaid
<input type="checkbox"/>	Edit	Copy	Delete	16	Niels Tchaikovsky
<input type="checkbox"/>	Edit	Copy	Delete	17	Fritz Vezey
<input type="checkbox"/>	Edit	Copy	Delete	18	Billi Cheake
<input type="checkbox"/>	Edit	Copy	Delete	19	Harlen Antoniazzi
<input type="checkbox"/>	Edit	Copy	Delete	20	Helen Reckhouse

FIGURE 16: STAFF TABLE – AFTER QUERY

AGGREGATION WITH GROUP-BY

PURPOSE AND FUNCTION:

This SQL query uses the count function with the ward name in the group by clause to count the number of patient admissions to each ward ever. The names of the columns are also changed to help with readability. This query would be useful for running stats on which are the busiest wards, and therefore where staffing requirements may need to be higher.

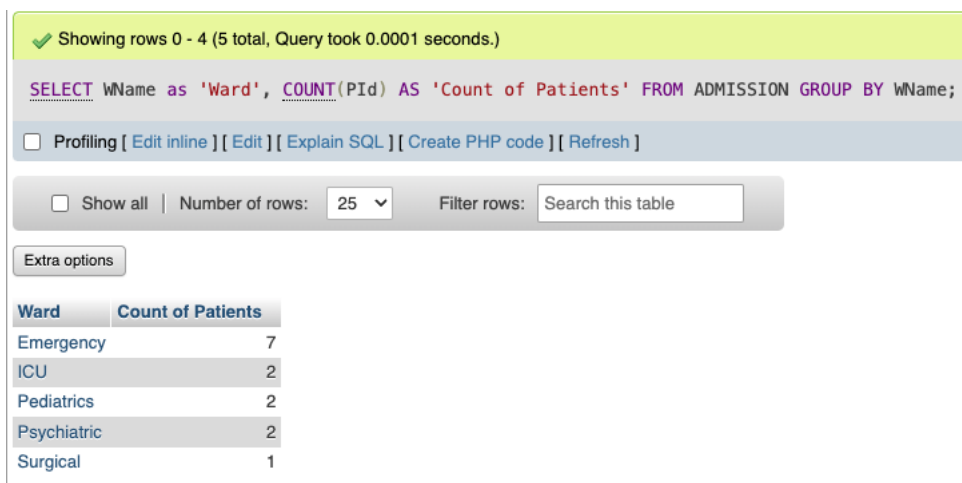
SQL CODE:

```
SELECT WName as 'Ward', COUNT(PId) AS 'Count of Patients'
```

```
FROM ADMISSION
```

```
GROUP BY WName;
```

RESULT:



Showing rows 0 - 4 (5 total, Query took 0.0001 seconds.)

```
SELECT WName as 'Ward', COUNT(PId) AS 'Count of Patients' FROM ADMISSION GROUP BY WName;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

Ward	Count of Patients
Emergency	7
ICU	2
Pediatrics	2
Psychiatric	2
Surgical	1

FIGURE 17: RESULT FROM AGGREGATION WITH GROUP BY QUERY

BEFORE SCREENSHOT:

SELECT * FROM `ADMISSION`

☐ Profiling

[Edit inline]

[Edit]

[Explain SQL]

[Create PHP code]

[Refresh]

☐ Show all

Number of rows: 25

Filter rows: Search this table

Extra options

			PId	WName	AdmitDate	DischargeDate
<input type="checkbox"/>	Edit	Copy	Delete	1	Emergency	2024-05-03
<input type="checkbox"/>	Edit	Copy	Delete	2	Pediatrics	2024-05-02
<input type="checkbox"/>	Edit	Copy	Delete	3	Emergency	2024-05-01
<input type="checkbox"/>	Edit	Copy	Delete	4	Psychiatric	2024-04-23
<input type="checkbox"/>	Edit	Copy	Delete	5	Surgical	2024-04-26
<input type="checkbox"/>	Edit	Copy	Delete	6	Psychiatric	2024-04-16
<input type="checkbox"/>	Edit	Copy	Delete	7	Emergency	2024-05-02
<input type="checkbox"/>	Edit	Copy	Delete	8	ICU	2024-05-05
<input type="checkbox"/>	Edit	Copy	Delete	9	ICU	2024-04-22
<input type="checkbox"/>	Edit	Copy	Delete	10	Emergency	2024-04-22
<input type="checkbox"/>	Edit	Copy	Delete	11	Pediatrics	2024-05-01
<input type="checkbox"/>	Edit	Copy	Delete	12	Emergency	2024-04-22
<input type="checkbox"/>	Edit	Copy	Delete	13	Emergency	2024-04-23
<input type="checkbox"/>	Edit	Copy	Delete	14	Emergency	2024-04-25

FIGURE 18: ADMISSION TABLE - BEFORE QUERY

AFTER SCREENSHOTS:

SELECT * FROM `ADMISSION`

☐ Profiling

[Edit inline]

[Edit]

[Explain SQL]

[Create PHP code]

[Refresh]

☐ Show all

Number of rows: 25

Filter rows: Search this table

Extra options

				PId	WName	AdmitDate	DischargeDate
<input type="checkbox"/>	Edit	Copy	Delete	1	Emergency	2024-05-03	2024-05-03
<input type="checkbox"/>	Edit	Copy	Delete	2	Pediatrics	2024-05-02	2024-05-04
<input type="checkbox"/>	Edit	Copy	Delete	3	Emergency	2024-05-01	2024-05-03
<input type="checkbox"/>	Edit	Copy	Delete	4	Psychiatric	2024-04-23	NULL
<input type="checkbox"/>	Edit	Copy	Delete	5	Surgical	2024-04-26	NULL
<input type="checkbox"/>	Edit	Copy	Delete	6	Psychiatric	2024-04-16	2024-04-30
<input type="checkbox"/>	Edit	Copy	Delete	7	Emergency	2024-05-02	NULL
<input type="checkbox"/>	Edit	Copy	Delete	8	ICU	2024-05-05	NULL
<input type="checkbox"/>	Edit	Copy	Delete	9	ICU	2024-04-22	NULL
<input type="checkbox"/>	Edit	Copy	Delete	10	Emergency	2024-04-22	NULL
<input type="checkbox"/>	Edit	Copy	Delete	11	Pediatrics	2024-05-01	2024-05-07
<input type="checkbox"/>	Edit	Copy	Delete	12	Emergency	2024-04-22	NULL
<input type="checkbox"/>	Edit	Copy	Delete	13	Emergency	2024-04-23	NULL
<input type="checkbox"/>	Edit	Copy	Delete	14	Emergency	2024-04-25	NULL

FIGURE 19: ADMISSION TABLE – AFTER QUERY

DELETE OPERATION WITH CASCADE

PURPOSE AND FUNCTION:

This query will delete the patient’s tuple within the PATIENT table where the ID is equal to one. As there is cascade enabled, this will also delete any tuples in other tables where the patient id (Pid) of 1 is used. This means that in the ADMISSION table, and GIVEN table, tuples will be deleted as the patient id existed in those tables. This function would be useful if a patient requested that their data be deleted from the system, the cascade function will allow efficient deletion of their records.

SQL CODE:

DELETE FROM PATIENT WHERE Pid = 1;

BEFORE SCREENSHOT:

	Pld	WName	AdmitDate	DischargeDate
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Emergency	2024-05-03	2024-05-03
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Pediatrics	2024-05-02	2024-05-04
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Emergency	2024-05-01	2024-05-03
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Psychiatric	2024-04-23	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Surgical	2024-04-26	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Psychiatric	2024-04-16	2024-04-30
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	Emergency	2024-05-02	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	ICU	2024-05-05	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	ICU	2024-04-22	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	Emergency	2024-04-22	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	Pediatrics	2024-05-01	2024-05-07
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	Emergency	2024-04-22	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	Emergency	2024-04-23	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	Emergency	2024-04-25	NULL

FIGURE 21: ADMISSION TABLE - BEFORE QUERY

	Pid	PPhone	NextOfKin	NokPhone	FName	LName
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	2499067824	John Doe	3001953095	Chiquia	Pennall
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	2616056471	Jane Smith	3906247362	Claudine	Guare
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	2904873218	Chris Brown	6044335041	Harlene	Gladdih
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	8795185857	Judy Dent	3381326194	Robbert	Prattin
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	2446414741	Jeez Louise	5488190783	Loria	Keat
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	7484530519	Phil Magroin	3574238111	Deane	Allwright
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	6042757471	Michael Johnson	9011935724	Flora	Winsborrow
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	9698886754	Pu Peh	1703278396	Lia	Heinchenko
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	9158471906	Tuchma Scrotum	8588740041	Genni	Stenett
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	1336214778	Jeremy Phillis	8987233555	Willi	Bracken
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	2365990916	Enid Cryton	3312537925	Jephthah	Croad
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	3541622995	Jane Doe	7097064119	Tully	Greg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	4847332442	Chris Black	8123996104	Jim	Anderbrugge
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	7709814022	Christopher Mung	2011078598	Vincenty	Farragher

FIGURE 20: PATIENT TABLE - BEFORE QUERY

	Sld	Mid	Pld	TimeGiven	DateGiven	Dose
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	6	2	19:37:21	2024-05-01	140mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	6	13	19:44:38	2024-05-02	90mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	6	11	19:51:37	2024-05-03	120mg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	6	4	19:38:23	2024-05-06	100mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	6	6	19:40:54	2024-05-05	90mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	6	10	19:43:11	2024-05-01	90mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	6	3	19:37:58	2024-05-04	120mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	6	1	19:36:08	2024-05-03	120mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	6	14	19:44:59	2024-05-03	100mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	8	11	19:52:32	2024-05-03	120mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	17	5	6	19:51:10	2024-05-02	100mg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	17	6	7	19:39:47	2024-05-08	100mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	17	6	12	19:43:40	2024-05-02	90mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	18	3	12	19:50:32	2024-05-01	240mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	18	6	5	19:39:23	2024-05-07	100mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	18	6	9	19:41:59	2024-05-06	80mcg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	20	6	8	19:41:26	2024-05-07	90mcg

FIGURE 22: GIVEN TABLE - BEFORE QUERY

	Sld	Pld	Procid	PerfDate
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	3	10	2024-05-01
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	6	9	2024-05-05
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	8	1	2024-04-24
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	11	4	2024-05-03
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	11	8	2024-05-06
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	12	1	2024-05-03

FIGURE 23: PERFORMED TABLE - BEFORE QUERY

AFTER SCREENSHOTS:

SELECT * FROM `ADMISSION`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

		PId	WName	AdmitDate	DischargeDate
<input type="checkbox"/>	Edit Copy Delete	2	Pediatrics	2024-05-02	2024-05-04
<input type="checkbox"/>	Edit Copy Delete	3	Emergency	2024-05-01	2024-05-03
<input type="checkbox"/>	Edit Copy Delete	4	Psychiatric	2024-04-23	NULL
<input type="checkbox"/>	Edit Copy Delete	5	Surgical	2024-04-26	NULL
<input type="checkbox"/>	Edit Copy Delete	6	Psychiatric	2024-04-16	2024-04-30
<input type="checkbox"/>	Edit Copy Delete	7	Emergency	2024-05-02	NULL
<input type="checkbox"/>	Edit Copy Delete	8	ICU	2024-05-05	NULL
<input type="checkbox"/>	Edit Copy Delete	9	ICU	2024-04-22	NULL
<input type="checkbox"/>	Edit Copy Delete	10	Emergency	2024-04-22	NULL
<input type="checkbox"/>	Edit Copy Delete	11	Pediatrics	2024-05-01	2024-05-07
<input type="checkbox"/>	Edit Copy Delete	12	Emergency	2024-04-22	NULL
<input type="checkbox"/>	Edit Copy Delete	13	Emergency	2024-04-23	NULL
<input type="checkbox"/>	Edit Copy Delete	14	Emergency	2024-04-25	NULL

FIGURE 25: ADMISSION TABLE - AFTER QUERY

SELECT * FROM `PATIENT`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		PId	PPhone	NextOfKin	NokPhone	FName	LName
<input type="checkbox"/>	Edit Copy Delete	2	2616056471	Jane Smith	3906247362	Claudine	Guare
<input type="checkbox"/>	Edit Copy Delete	3	2904873218	Chris Brown	6044335041	Harlene	Gladdith
<input type="checkbox"/>	Edit Copy Delete	4	8795185857	Judy Dent	3381326194	Robbert	Prattin
<input type="checkbox"/>	Edit Copy Delete	5	2446414741	Jeez Louise	5488190763	Loria	Keat
<input type="checkbox"/>	Edit Copy Delete	6	7484530519	Phil Magroin	3574238111	Deane	Allwright
<input type="checkbox"/>	Edit Copy Delete	7	6042757471	Michael Johnson	9011935724	Flora	Winsborrow
<input type="checkbox"/>	Edit Copy Delete	8	9698668754	Pu Peh	1703278396	Lia	Hrinchenko
<input type="checkbox"/>	Edit Copy Delete	9	9158471906	Tuchma Scrotum	8588740041	Genni	Stenett
<input type="checkbox"/>	Edit Copy Delete	10	1336214778	Jeremy Phillis	8987233555	Willi	Bracken
<input type="checkbox"/>	Edit Copy Delete	11	2365990916	Enid Cryton	3312537925	Jephthah	Croad
<input type="checkbox"/>	Edit Copy Delete	12	3541622995	Jane Doe	7097064119	Tully	Greg
<input type="checkbox"/>	Edit Copy Delete	13	4847332442	Chris Black	8123996104	Jim	Anderbrugge
<input type="checkbox"/>	Edit Copy Delete	14	7709814022	Christopher Mung	2011078598	Vincenty	Farragher

FIGURE 24: PATIENT TABLE - AFTER QUERY

SELECT * FROM `GIVEN`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | So

Extra options

		SId	MId	PId	TimeGiven	DateGiven	Dose
<input type="checkbox"/>	Edit Copy Delete	1	6	2	19:37:21	2024-05-01	140mcg
<input type="checkbox"/>	Edit Copy Delete	1	6	13	19:44:38	2024-05-02	90mcg
<input type="checkbox"/>	Edit Copy Delete	2	6	11	19:51:37	2024-05-03	120mcg
<input type="checkbox"/>	Edit Copy Delete	4	6	4	19:38:23	2024-05-06	100mcg
<input type="checkbox"/>	Edit Copy Delete	5	6	6	19:40:54	2024-05-05	90mcg
<input type="checkbox"/>	Edit Copy Delete	5	6	10	19:43:11	2024-05-01	90mcg
<input type="checkbox"/>	Edit Copy Delete	7	6	3	19:37:58	2024-05-04	120mcg
<input type="checkbox"/>	Edit Copy Delete	15	6	14	19:44:59	2024-05-03	100mcg
<input type="checkbox"/>	Edit Copy Delete	15	8	11	19:52:32	2024-05-03	120mcg
<input type="checkbox"/>	Edit Copy Delete	17	5	6	19:51:10	2024-05-02	100mg
<input type="checkbox"/>	Edit Copy Delete	17	6	7	19:39:47	2024-05-08	100mcg
<input type="checkbox"/>	Edit Copy Delete	17	6	12	19:43:40	2024-05-02	90mcg
<input type="checkbox"/>	Edit Copy Delete	18	3	12	19:50:32	2024-05-01	240mcg
<input type="checkbox"/>	Edit Copy Delete	18	6	5	19:39:23	2024-05-07	100mcg
<input type="checkbox"/>	Edit Copy Delete	18	6	9	19:41:59	2024-05-06	80mcg

FIGURE 27: GIVEN TABLE - AFTER QUERY

SELECT * FROM `PERFORMED`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

		SId	PId	ProcId	PerfDate
<input type="checkbox"/>	Edit Copy Delete	1	3	10	2024-05-01
<input type="checkbox"/>	Edit Copy Delete	3	6	9	2024-05-05
<input type="checkbox"/>	Edit Copy Delete	3	8	1	2024-04-24
<input type="checkbox"/>	Edit Copy Delete	2	11	4	2024-05-03
<input type="checkbox"/>	Edit Copy Delete	4	11	8	2024-05-06
<input type="checkbox"/>	Edit Copy Delete	2	12	1	2024-05-03

FIGURE 26: PERFORMED TABLE - AFTER QUERY

UPDATE OPERATION

PURPOSE AND FUNCTION:

This query updates the phone number of one of the patients (patient with id = 2) within the PATIENT table. This type of query would be useful as it is important to keep patient records accurate to ensure that contacting patient's post-surgery or sending invoices is done correctly.

SQL CODE:

UPDATE PATIENT

SET PPhone = '1234567890'

WHERE PId = 2;

BEFORE SCREENSHOT:

	PId	PPhone	NextOfKin	NokPhone	FName	LName
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	2616056471	Jane Smith	3906247362	Claudine	Guare
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	2904873218	Chris Brown	6044335041	Harlene	Gladdifh
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	8795185857	Judy Dent	3381326194	Robbert	Prattin
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	2446414741	Jeez Louise	5488190763	Loria	Keat
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	7484530519	Phil Magroin	3574238111	Deane	Allwright
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	6042757471	Michael Johnson	9011935724	Flora	Winsborrow
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	9698688754	Pu Peh	1703278396	Lia	Hriinchenko
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	9158471906	Tuchma Scrotum	8588740041	Genni	Stenett
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	1336214778	Jeremy Phillis	8987233555	Willi	Bracken
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	2365990916	Enid Cryton	3312537925	Jephthah	Croad
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	3541622995	Jane Doe	7097064119	Tully	Greg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	4847332442	Chris Black	8123996104	Jim	Anderbrugge
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	7709814022	Christopher Mung	2011078598	Vincenty	Farragher

FIGURE 28: PATIENT TABLE - BEFORE UPDATE, BUT AFTER DELETE

AFTER SCREENSHOTS:

	PId	PPhone	NextOfKin	NokPhone	FName	LName
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	1234567890	Jane Smith	3906247362	Claudine	Guare
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	2904873218	Chris Brown	6044335041	Harlene	Gladdifh
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	8795185857	Judy Dent	3381326194	Robbert	Prattin
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	2446414741	Jeez Louise	5488190763	Loria	Keat
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	7484530519	Phil Magroin	3574238111	Deane	Allwright
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	6042757471	Michael Johnson	9011935724	Flora	Winsborrow
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	9698688754	Pu Peh	1703278396	Lia	Hriinchenko
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	9158471906	Tuchma Scrotum	8588740041	Genni	Stenett
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	1336214778	Jeremy Phillis	8987233555	Willi	Bracken
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	2365990916	Enid Cryton	3312537925	Jephthah	Croad
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	3541622995	Jane Doe	7097064119	Tully	Greg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	4847332442	Chris Black	8123996104	Jim	Anderbrugge
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	7709814022	Christopher Mung	2011078598	Vincenty	Farragher

FIGURE 29: PATIENT TABLE - AFTER UPDATE QUERY

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