Hospital Database Join Queries

-- Part 1) Inner Join

SELECT Patient.firstName AS "Patient First Name", Patient.lastName AS "Patient Last Name", Treatment.name AS "Treatment Received"

FROM TreatmentAdministration

JOIN Patient

ON TreatmentAdministration.patientNo = Patient.patientNo

JOIN Treatment

ON TreatmentAdministration.treatmentNo = Treatment.treatmentNo;

SELECT *

FROM TreatmentAdministration

⊞ Results		■ Messages					
	Patient First Name		Patient Last Name	Treatment Received			
1	James		Donald	Splinting			
2	James		Donald	X-ray			
3	Jane		Smith	Blood Test			
4	Michael		Johnson	IV Fluids			
5	Michael		Johnson	Blood Test			
6	Emily		Williams	Splinting			
7	Emily		Williams	Stitching			
8	David		Brown	Stitching			
9	David		Brown	X-ray			
10	Sarah		Taylor	Nebulization			
11	Sarah		Taylor	Dressing Change			
12	Daniel		Martinez	Ultrasound			
13	Daniel		Martinez	Casting			
14	Jessica		Garcia	IV Fluids			
15	Jessica		Garcia	Dressing Change			
16	Christopher		Lopez	EKG			
17	Christopher		Lopez	EKG			
18	Amanda		Rodriguez	Nebulization			

Rodriguez

19

Amanda

	patientNo	doctorID	treatmentNo	dateTime	results
1	1	3	5	2024-02-19 08:00:00.000	Stable
2	1	5	1	2024-02-01 08:15:30.000	Normal
3	2	7	2	2024-02-20 10:30:00.000	Unstable
4	3	2	8	2024-02-21 14:45:00.000	Worsening
5	3	8	2	2024-02-03 10:25:45.000	Stable
6	4	3	5	2024-02-04 11:55:10.000	Critical
7	4	5	4	2024-02-22 11:20:00.000	Stable
8	5	1	4	2024-02-05 12:30:55.000	Recovering
9	5	9	1	2024-02-23 09:05:00.000	Unstable
10	6	1	10	2024-02-24 16:00:00.000	Worsening
11	6	7	6	2024-02-06 13:20:40.000	Critical
12	7	4	3	2024-02-25 13:15:00.000	Stable
13	7	10	7	2024-02-07 14:10:25.000	Normal
14	8	3	8	2024-02-08 15:45:15.000	Unchanged
15	8	8	6	2024-02-26 10:45:00.000	Unstable
16	9	6	9	2024-02-09 16:35:30.000	Improving
17	9	6	9	2024-02-27 15:30:00.000	Worsening
18	10	9	10	2024-02-10 17:05:50.000	Stable
19	10	10	7	2024-02-28 12:00:00.000	Stable

Casting

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⊟--1) Left Join
     /*Left Join here reveals ALL of the patients (regardless if they have a date of admittance registered)
     possible there are some patients who have yet to be admitted (still in waiting room*/
    SELECT P.firstName as 'Patient First Name', Ad.admitDate AS 'Date the patient was admitted'
     FROM Patient as P
     Left Join AdultDischarge as AD
     ON P.patientNo= AD.patientNo
■ Results Messages
     Patient First Name
                    Date the patient was admitted
                     2024-02-01
      Jane
                     2024-02-02
     Michael
                     2024-02-03
     Emily
                     2024-02-04
     David
                     2024-02-05
5
                     2024-02-06
     Sarah
     Daniel
                     2024-02-07
     Jessica
                     2024-02-08
8
9
     Christopher
                     2024-02-09
     Amanda
                     2024-02-10
10
 11
     John
                     NULL
     Alice
                     NULL
 13
     Robert
                     NULL
                     NULL
14
     Samantha
                     NULL
     William
 15

∃--1) Right Join

    /*Right Join here reveals ALL of the nurses' names to display whether they had a date listed down in which they visited a patient or not*/
   SELECT n.firstName as 'Nurse Name', np.date as 'Date nurse saw a patient'
      FROM NursePatient AS np
      RIGHT JOIN Nurse AS n
      ON np.nurseID= n.nurseID
100 % - 4
Nurse Name Date nurse saw a patient
    Emma
               2024-02-01
               2024-02-06
    Emma
2
    James
               2024-02-08
               2024-02-06
    Olivia
     William
               2024-02-03
5
    William
               2024-02-04
     William
               2024-02-08
               2024-02-04
               2024-02-01
     Liam
10
    Liam
               2024-02-03
```

12

13

15

16

17

18 19

20

21

22

23

24

28

Sophia

Sophia

Noah

Noah

Isabella

Isabella

Ethan

Grace

Henry

Jack

Oliver

Chloe Lucas

26 Lily27 Mia

Owen

Sophie

2024-02-07

2024-02-02

2024-02-09

2024-02-05 2024-02-09

2024-02-05

2024-02-07 2024-02-02

NULL NULL

NULL

NULL

NULL

NULL

NULL NULL

NULL

NULL

```
□--1) Full Join
     /* Full Join reveals ALL item names & ALL patient first names
     to reveal if there are any items that have not been charged to a single patient (not the case)
     or if there are any patients that have not been charged a single item (yes, there's 5 of them)*/
   □SELECT P.firstName AS 'Patient First Name', I.name as 'Items Charged'
     FROM ItemCharge AS IC
     FULL JOIN PATIENT AS P
     ON IC.patientNo=P.patientNo
     FULL JOIN ITEM AS I
     ON IC.itemNo= I.itemNo
100 % -
■ Results Messages
     Patient First Name
                    Items Charged
     James
                    Strong Bandage
     Jane
                    Syringe
     Michael
                    Antibiotics
     Emily
                    Alcohol Swabs
     David
                    Sanitizer
     Sarah
                    Painkillers
     Daniel
                    Ace Bandage
     Jessica
                    Gauze
     Christopher
                    Thermometer
     Amanda
                    Gloves
     John
                    NULL
     Alice
                    NULL
     Robert
                    NULL
     Samantha
                    NULL
     William
```

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9 10

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12 13

14

NULL

Ethan

Grace

Henry

Sophie

Jack

Oliver

Chloe

Lucas

Lily

Mia

Owen

```
□--1) Cross Join

| 7* Cross Join reveals all possible combinations of nurses being the charge nurse for each ward*/

□ SELECT W.location AS 'Ward Location', N.firstName AS 'Nurses'

| FROM Ward AS W
| CROSS JOIN Nurse AS N
```

ı, ı	CROSS JOIN Nurse AS N									
00 %	- 4									
■ Re	sults Messages									
	Ward Location	First Name	of Nurs	e in Change						
	Emergency Department East Wing	Emma	64	Intensive Care Unit East Wing	William	127	Cardiology West Wing	Sophia	190	Oncology Main E
	Emergency Department East Wing	James	65	Intensive Care Unit East Wing	Ava	128	Cardiology West Wing	Noah	191	Oncology Main E
	Emergency Department East Wing	Olivia	66	Intensive Care Unit East Wing	Liam	129	Cardiology West Wing	Isabella	192	Oncology Main E
	Emergency Department East Wing	William	67	Intensive Care Unit East Wing	Sophia	130	Cardiology West Wing	Ethan	193	Oncology Main E
	Emergency Department East Wing	Ava	68	Intensive Care Unit East Wing	Noah	131	Cardiology West Wing	Grace	193	
	Emergency Department East Wing	Liam	69	Intensive Care Unit East Wing	Isabella	132	Cardiology West Wing	Henry		Oncology Main E
	Emergency Department East Wing	Sophia	70	Intensive Care Unit East Wing	Ethan	133	Cardiology West Wing	Sophie	195	Oncology Main E
	Emergency Department East Wing	Noah	71	Intensive Care Unit East Wing	Grace	134	Cardiology West Wing	Jack	196	Oncology Main E
	Emergency Department East Wing	Isabella	72	Intensive Care Unit East Wing	Henry	135	Cardiology West Wing	Oliver	197	Oncology Main E
	Emergency Department East Wing	Ethan	73	Intensive Care Unit East Wing	Sophie	136	Cardiology West Wing	Chloe	198	Oncology Main E
	Emergency Department East Wing	Grace	74	Intensive Care Unit East Wing	Jack	137	Cardiology West Wing	Lucas	199	Oncology Main E
	Emergency Department East Wing	Henry	75	Intensive Care Unit East Wing	Oliver	138	Cardiology West Wing	Lily	200	Oncology Main E
	Emergency Department East Wing	Sophie	76		Chloe	139	Cardiology West Wing	Mia		
	Emergency Department East Wing	Jack		Intensive Care Unit East Wing	Lucas	140	Cardiology West Wing	Owen		
	Emergency Department East Wing	Oliver	77	Intensive Care Unit East Wing			Neurology Main Building	Emma		
	Emergency Department East Wing	Chloe	78	Intensive Care Unit East Wing	Lily	141				
			79	Intensive Care Unit East Wing	Mia	142	Neurology Main Building	James		
	Emergency Department East Wing	Lucas	80	Intensive Care Unit East Wing	Owen	143	Neurology Main Building	Olivia		
	Emergency Department East Wing	Lily	81	Maternity North Wing	Emma	144	Neurology Main Building	William		
	Emergency Department East Wing	Mia	82	Maternity North Wing	James	145	Neurology Main Building	Ava		
	Emergency Department East Wing	Owen	83	Maternity North Wing	Olivia	146	Neurology Main Building	Liam		
	Pediatrics West Wing	Emma	84	Maternity North Wing	William	147	Neurology Main Building	Sophia		
	Pediatrics West Wing	James	85	Maternity North Wing	Ava	148	Neurology Main Building	Noah		
	Pediatrics West Wing	Olivia	86	Maternity North Wing	Liam	149	Neurology Main Building	Isabella		
	Pediatrics West Wing	William	87	Maternity North Wing	Sophia	150	Neurology Main Building	Ethan		
	Pediatrics West Wing	Ava	88	Maternity North Wing	Noah	151	Neurology Main Building	Grace		
	Pediatrics West Wing	Liam	89	Maternity North Wing	Isabella	152	Neurology Main Building	Henry		
	Pediatrics West Wing	Sophia	90	Maternity North Wing	Ethan	153	Neurology Main Building	Sophie		
	Pediatrics West Wing	Noah	91	Maternity North Wing	Grace	154	Neurology Main Building	Jack		
	Pediatrics West Wing	Isabella	92	Maternity North Wing	Henry	155	Neurology Main Building	Oliver		
	Pediatrics West Wing	Ethan	93	Maternity North Wing	Sophie	156	Neurology Main Building	Chloe		
	Pediatrics West Wing	Grace	94	Maternity North Wing	Jack	157	Neurology Main Building	Lucas		
	Pediatrics West Wing	Henry	95	Maternity North Wing	Oliver	158	Neurology Main Building	Lily		
	Pediatrics West Wing	Sophie	96	Maternity North Wing	Chloe	159	Neurology Main Building	Mia		
	Pediatrics West Wing	Jack	97	Maternity North Wing	Lucas	160	Neurology Main Building	Owen		
	Pediatrics West Wing	Oliver	98	Maternity North Wing	Lily	161	Psychiatric East Wing	Emma		
	Pediatrics West Wing	Chloe	99	Maternity North Wing	Mia	162	Psychiatric East Wing	James		
	Pediatrics West Wing	Lucas		, ,	Owen	163	Psychiatric East Wing	Olivia		
	Pediatrics West Wing	Lily	100	Maternity North Wing		164	Psychiatric East Wing	William		
	Pediatrics West Wing	Mia	101	Orthopedic South Wing	Emma	165	Psychiatric East Wing	Ava		
			102	Orthopedic South Wing	James		Psychiatric East Wing			
	Pediatrics West Wing	Owen	103	Orthopedic South Wing	Olivia	166		Liam		
	Surgical Main Building	Emma	104	Orthopedic South Wing	William	167	Psychiatric East Wing	Sophia		
	Surgical Main Building	James	105	Orthopedic South Wing	Ava	168	Psychiatric East Wing	Noah		
	Surgical Main Building	Olivia	106	Orthopedic South Wing	Liam	169	Psychiatric East Wing	Isabella		
	Surgical Main Building	William	107	Orthopedic South Wing	Sophia	170	Psychiatric East Wing	Ethan		
	Surgical Main Building	Ava	108	Orthopedic South Wing	Noah	171	Psychiatric East Wing	Grace		
	Surgical Main Building	Liam	109	Orthopedic South Wing	Isabella	172	Psychiatric East Wing	Henry		
	Surgical Main Building	Sophia	110	Orthopedic South Wing	Ethan	173	Psychiatric East Wing	Sophie		
	Surgical Main Building	Noah	111	Orthopedic South Wing	Grace	174	Psychiatric East Wing	Jack		
	Surgical Main Building	Isabella	112	Orthopedic South Wing	Henry	175	Psychiatric East Wing	Oliver		
	Surgical Main Building	Ethan	113	Orthopedic South Wing	Sophie	176	Psychiatric East Wing	Chloe		
	Surgical Main Building	Grace	114	Orthopedic South Wing	Jack	177	Psychiatric East Wing	Lucas		
	Surgical Main Building	Henry	115	Orthopedic South Wing	Oliver	178	Psychiatric East Wing	Lily		
	Surgical Main Building	Sophie	116	Orthopedic South Wing	Chloe	179	Psychiatric East Wing	Mia		
	Surgical Main Building	Jack	117	Orthopedic South Wing	Lucas	180	Psychiatric East Wing	Owen		
	Surgical Main Building	Oliver	118	Orthopedic South Wing	Lily	181	Oncology Main Building	Emma		
	Surgical Main Building	Chloe	119	Orthopedic South Wing	Mia	182	Oncology Main Building	James		
	Surgical Main Building	Lucas				183	Oncology Main Building	Olivia		
	Surgical Main Building	Lily	120	Orthopedic South Wing	Owen	184	Oncology Main Building	William		
	0		121	Cardiology West Wing	Emma	185	Oncology Main Building	Ava		
	Surgical Main Building	Mia	122	Cardiology West Wing	James			Liam		
	Surgical Main Building	Owen	123	Cardiology West Wing	Olivia	186	Oncology Main Building			
	Intensive Care Unit East Wing	Emma	124	Cardiology West Wing	William	187	Oncology Main Building	Sophia		
2	Intensive Care Unit East Wing	James	125	Cardiology West Wing	Ava	188	Oncology Main Building	Noah		
3	Intensive Care Unit East Wing	Olivia	126	Cardiology West Wing	Liam	189	Oncology Main Building	Isabella		

```
∃--Part 2. Question 1)

     /*Patients admitted to hospital in a certain month, their admitting physician,
     bed assigned and ward, sorted by most recent date*/
    SELECT P.lastName AS 'Patient Last Name', B.type AS 'Bed_Type', B.size AS 'Bed_Size',
     W.location AS 'Ward Name', PH.lastName AS 'Admitting Doc', Month(AD.admitDate) AS 'Month Admitted', AD.admitDate AS 'Date Admitted'
     FROM AdultDischarge AS AD
     JOIN Physician AS PH
     ON AD.admitDoc=PH.doctorID
     JOIN Patient AS P
     ON AD.patientNo=P.patientNo
     JOIN Bed as B
     ON P.bedNo=B.bedNo
     JOIN WARD as W
     ON B.wardID=W.wardID
     WHERE MONTH(AD.admitDate)=2
     ORDER BY AD.admitDate
100 %
■ Results Messages
     Patient Last Name
                    Bed_Type
                             Bed_Size Ward_Name
                                                                 Admitting_Doc Month_Admitted
                                                                                           Date_Admitted
     Donald
                                       Emergency Department East Wing
                                                                                            2024-02-01
                    manual
                                                                Lancaster
                                       Pediatrics West Wing
                                                                                            2024-02-02
     Smith
                             Т
                                                                 Delgado
                     manual
                                                                                            2024-02-03
     Johnson
                     manual
                              S
                                       Surgical Main Building
                                                                  Hawthorne
                                                                              2
     Williams
                     electric
                                       Intensive Care Unit East Wing
                                                                  Whitaker
                                                                                            2024-02-04
                             L
     Brown
                     manual
                             XL
                                       Maternity North Wing
                                                                 McKinney
                                                                                            2024-02-05
                                       Orthopedic South Wing
                                                                                            2024-02-06
     Taylor
                     manual
                             L
                                                                 Chambers
                                       Cardiology West Wing
     Martinez
                                                                  Hendricks
                                                                                            2024-02-07
                     manual
                             1
     Garcia
                     electric
                                       Neurology Main Building
                                                                  Henson
                                                                                            2024-02-08
                             XL
     Lopez
                     manual
                                      Psychiatric East Wing
                                                                  Harrington
                                                                                            2024-02-09
     Rodriguez
                     manual
                                      Oncology Main Building
                                                                 Montgomery
                                                                                            2024-02-10

∃ -- Part 2. Question 2)

    /*Physician total admits for the past year, sorted by date*/
   SELECT P.lastName AS 'Doctor Last Name', AD.admitDate AS 'Date Doctor Admitted a Patient'
     FROM AdultDischarge AS AD
     JOIN Physician AS P
     ON AD.admitDoc=P.doctorID
     JOIN Patient AS PA
     ON AD.patientNo=pa.patientNo
     WHERE AD.admitDate >= DATEADD(year, -1, GETDATE()) -- may also do: Year(AD.admitDate)=2024
     ORDER BY AD.admitDate
100 % -
Doctor Last Name
                      Date Doctor Admitted a Patient
     Lancaster
                      2024-02-01
                      2024-02-02
     Delgado
     Hawthorne
                      2024-02-03
     Whitaker
                      2024-02-04
     McKinney
                      2024-02-05
     Chambers
                      2024-02-06
     Hendricks
                      2024-02-07
     Henson
                      2024-02-08
                      2024-02-09
     Harrington
     Montgomery
                      2024-02-10
```

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```
∃--Part 2. Question 3)
     /*Total list of treatments administered to a patient by physician for each
     treatment, sorted by date of treatment, listing last name of patient and of physician.*/
   ĒSELECT P.lastName AS 'Patient_Last_Name', T.name as 'Treatment_Name',
     PH.lastName AS 'Physician_Last_Name', CAST(TA.dateTime AS DATE) AS 'Treatment_Date'
     FROM TreatmentAdministration AS TA
     JOIN Patient AS P
     ON TA.patientNo=P.patientNo
     JOIN Physician AS PH
     ON TA.doctorID=PH.doctorID
     JOIN Treatment AS T
     ON TA.treatmentNo=T.treatmentNo
     ORDER BY ta.dateTime
100 %
■ Results  Messages
     Patient_Last_Name
                       Treatment Name
                                      Physician_Last_Name
                                                         Treatment Date
     Donald
                                                          2024-02-01
                       X-ray
                                       Hawthorne
                                                          2024-02-03
     Johnson
                       Blood Test
                                       Chambers
     Williams
                                                          2024-02-04
                       Splinting
                                       Lancaster
     Brown
                       Stitching
                                       Harrington
                                                          2024-02-05
                       Dressing Change
     Taylor
                                       McKinney
                                                          2024-02-06
     Martinez
                       Casting
                                       Henson
                                                          2024-02-07
     Garcia
                       IV Fluids
                                       Lancaster
                                                          2024-02-08
                                       Whitaker
     Lopez
                       EKG
                                                          2024-02-09
     Rodriguez
                                       Hendricks
                                                          2024-02-10
                       Nebulization
     Donald
                       Splinting
                                       Lancaster
                                                          2024-02-19
                                                          2024-02-20
     Smith
                       Blood Test
                                       McKinney
     Johnson
                       IV Fluids
                                       Montgomery
                                                          2024-02-21
     Williams
                       Stitching
                                       Hawthorne
                                                          2024-02-22
     Brown
                       X-ray
                                       Hendricks
                                                          2024-02-23
                       Nebulization
                                                          2024-02-24
     Taylor
                                       Harrington
                                                          2024-02-25
                       Ultrasound
                                       Delgado
     Martinez
                       Dressing Change
                                       Chambers
                                                          2024-02-26
     Garcia
     Lopez
                       EKG
                                       Whitaker
                                                          2024-02-27
```

2024-02-28

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Rodriguez

Casting

Henson

```
SQLQuery28.sql - C...RISTIAN\chris (57))* SQLQuery27.sql - C...RISTIAN\chris (75))* + X

□ --Part 2. Question 4)
     /*Patient itemized bill: List of treatments and items, by charge and sorted by date.*/
   SELECT
         'Treatment' AS 'Type',
         T.name AS 'Name',
         T.charge AS 'Charge',
         CAST(TA.dateTime AS DATE) AS 'Date', --casts the date from dateTime column
         P.lastName AS 'Patient Last Name'
     FROM
         TreatmentAdministration AS TA
     JOIN
         Treatment AS T ON TA.treatmentNo = T.treatmentNO
         Patient AS P ON TA.patientNo=P.patientNo
     WHERE
         TA.patientNo = 6
     UNION --Combines the results of both SELECT statements
     SELECT
         'Item' AS 'Type',
         I.name AS 'Name',
         I.charge AS 'Charge',
         IC.date,
         P.lastName
     FROM
         ItemCharge AS IC
     JOIN
         Item AS I ON IC.itemNo = I.itemNo
     LEFT JOIN
         Patient AS P ON IC.patientNo=P.patientNo
         IC.patientNo = 6
     ORDER BY DATE
100 % -
■ Results ■ Messages
                            Charge Date
                                            Patient Last Name
     Type
              Name
              Painkillers
                            10.99
                                  2024-02-06 Taylor
     Item
2
     Treatment Dressing Change 100.00 2024-02-06 Taylor
     Treatment Nebulization
                            200.00 2024-02-24 Taylor
3
```

```
⊟ --Part 2) Question 5

     /*List all nurse-patient events with nurse name and patient name.*/
   □ SELECT
           P.firstName AS 'Patient First Name',
          N.firstName AS 'Nurse First Name',
          NP.event AS 'Event'
     FROM
           NursePatient AS NP
      JOIN
          Nurse AS N ON NP.nurseID=N.nurseID
      JOIN
           Patient AS P ON NP.patientNo=P.patientNo
100 %
       ---
■ Results  Messages
      Patient First Name
                       Nurse First Name
                                       Event
      James
                       Emma
                                       wellness check
1
2
      James
                       Liam
                                       medication
3
      Jane
                       Sophia
                                       wellness check
4
      Jane
                       Ethan
                                       medication
5
      Michael
                       William
                                       wellness check
      Michael
                                       medication
6
                       Liam
7
      Emily
                       William
                                       wellness check
8
      Emily
                       Ava
                                       medication
                                       wellness check
9
      David
                       Noah
      David
                       Isabella
                                       medication
10
11
      Sarah
                       Emma
                                       wellness check
12
      Sarah
                       Olivia
                                       medication
      Daniel
                       Liam
                                       wellness check
13
                                       medication
      Daniel
                       Isabella
 14
      Jessica
                       James
                                       wellness check
15
                       William
                                       medication
16
      Jessica
```

wellness check medication

17

18

Christopher

Christopher

Sophia

Noah

```
⊟ --Part 2) Question 6

     /*Find missing values for beds with and without patients, and for patients with and
     without beds.*/
   □ SELECT
         P.firstName AS 'patient_name',
         B.bedNo AS 'bed_number',
         B.type AS 'bed_type'
     FROM
         Patient AS P
     FULL JOIN
         Bed AS B ON P.bedNo=B.bedNo
     --ALL beds are taken, but there's 5 patients that have not been assigned a bed
100 %
■ Results Messages
     patient_name
                 bed_number
                            bed_type
     James
                             manual
                 2
     Jane
                             manual
     Michael
                 3
                             manual
     Emily
                 4
                             electric
     David
                 5
                             manual
     Sarah
                 6
                             manual
                 7
     Daniel
                             manual
     Jessica
                 8
                             electric
     Christopher
                 9
                             manual
                 10
     Amanda
                             manual
10
                             NULL
11
     John
                 NULL
                 NULL
                             NULL
12
     Alice
                             NULL
13
     Robert
                 NULL
                             NULL
14
     Samantha
                 NULL
     William
                 NULL
                             NULL
15
```

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```
Hospital Database Join Queries

| F--Part 2 | Question 7 |
|--Fart 3 | Question 7 |
|--Fart 3 | Question 7 |
|--Fart 4 | Poster |
|--Fart 5 | Question 7 |
|--Fart 6 | Poster |
|--Fart 7 | Poster |
|--Fart 8 | Poster |
|--Fart 8 | Poster |
|--Fart 9 | Question 7 |
|--Fart 1 | Poster |
|--Fart 2 | Question 7 |
|--Fart 2 | Question 7 |
|--Fart 3 | Question 7 |
|--Fart 4 | Poster |
|--Fart 5 | Question 7 |
|--Fart 6 | Poster |
|--Fart 7 | Poster |
|--Fart 7 | Poster |
|--Fart 8 | Poster |
|--Fart 9 | Question 7 |
|--Fart 9 | Question 7 |
|--Fart 1 | Poster |
|--Fart 2 | Question 7 |
|--Fart 2
```

100 %) * "					
■ Results						
	patient_full_name	nurse_full_name				
1	James Donald	Emma Smith				
2	James Donald	Liam Davis				
3	Jane Smith	Sophia Miller				
4	Jane Smith	Ethan Anderson				
5	Michael Johnson	William Brown				
6	Michael Johnson	Liam Davis				
7	Emily Williams	William Brown				
8	Emily Williams	Ava Jones				
9	David Brown	Noah Wilson				
10	David Brown	Isabella Taylor				
11	Sarah Taylor	Emma Smith				
12	Sarah Taylor	Olivia Williams				
13	Daniel Martinez	Liam Davis				
14	Daniel Martinez	Isabella Taylor				
15	Jessica Garcia	James Johnson				
16	Jessica Garcia	William Brown				
17	Christopher Lopez	Sophia Miller				
18	Christopher Lopez	Noah Wilson				
19		Grace Clark				
20		Henry Adams				
21		Sophie Baker				
22		Jack Campbell				
23		Oliver Clarkson				
24		Chloe Cooper				
25		Lucas Evans				
26		Lily Fisher				
27		Mia Gray				
28		Owen Harris				
29	William Taylor					
30	Alice Johnson					
31	Amanda Rodriguez					
32	Robert Brown					
33	John Doe					
34	Samantha Smith					

```
NurseWardCrossJoin...ISTIAN\chris (55)) ≠ ×
      --Part 2) Question 8
       /*Create a distribution of nurses across all wards, and a distribution of all wards
      across nurses.*/
      SELECT
             CONCAT(N.firstName, ' ',N.lastName) AS 'nurse full name',
            W.location AS 'ward name
            Nurse AS N
       CROSS JOIN
            Ward AS W
100 %
nurse full name
                        ward name
       Emma Smith
                        Emergency Department East Wing
                                                                  Mia Gray
                                                                                    Surgical Main Building
                                                                                                                    117
                                                                                                                          Lucas Evans
                                                                                                                                            Orthopedic South Wing
                                                                                                                                                                            Oliver Clarkson
                                                                                                                                                                                                Psychiatric East Wing
                        Emergency Department East Wing
       James Johnson
                                                            60
                                                                  Owen Harris
                                                                                    Surgical Main Building
                                                                                                                          Lily Fisher
                                                                                                                                            Orthopedic South Wing
                                                                                                                                                                            Chloe Cooper
                                                                                                                                                                                                Psychiatric East Wing
       Olivia Williams
                        Emergency Department East Wing
                                                                                                                          Mia Grav
                                                                                                                                            Orthopedic South Wing
                                                                  Emma Smith
                                                                                    Intensive Care Unit Fast Wing
                                                                                                                    119
                                                                                                                                                                      177
                                                                                                                                                                            Lucas Evans
                                                                                                                                                                                                Psychiatric East Wing
       William Brown
                         Emergency Department East Wing
                                                                                                                                            Orthopedic South Wing
                                                                  James Johnson
                                                                                    Intensive Care Unit East Wing
                                                                                                                     120
                                                                                                                          Owen Harris
                                                                                                                                                                      178
                                                                                                                                                                            Lily Fisher
                                                                                                                                                                                                Psychiatric East Wing
       Ava Jones
                         Emergency Department East Wing
                                                            63
                                                                  Olivia Williams
                                                                                    Intensive Care Unit East Wing
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                                                                                                                          Emma Smith
                                                                                                                                             Cardiology West Wing
                                                                                                                                                                            Mia Gray
                                                                                                                                                                                                Psychiatric East Wing
                                                                                                                                                                      179
       Liam Davis
                        Emergency Department East Wing
                                                                  William Brown
                                                                                                                          James Johnson
                                                                                                                                            Cardiology West Wing
                                                                                    Intensive Care Unit Fast Wing
                                                                                                                    122
                                                                                                                                                                            Owen Harris
                         Emergency Department East Wing
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                                                                                                                                                                                                Psychiatric East Wing
       Sophia Miller
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                                                                  Ava Jones
                                                                                                                          Olivia Williams
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                                                                                                                    123
                                                                                                                                                                            Emma Smith
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       Noah Wilson
                        Emergency Department East Wing
                                                            66
                                                                  Liam Davis
                                                                                    Intensive Care Unit East Wing
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                                                                                                                           William Brown
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       Isabella Taylor
                        Emergency Department East Wing
                                                                                                                          Ava Jones
                                                                                                                                                                            James Johnson
                                                                  Sophia Miller
                                                                                    Intensive Care Unit East Wing
                                                                                                                                            Cardiology West Wing
                                                            67
                                                                                                                    125
 10
       Ethan Anderson
                        Emergency Department East Wing
                                                                                    Intensive Care Unit East Wing
                                                                                                                                                                            Olivia Williams
                                                                  Noah Wilson
                                                                                                                          Liam Davis
                                                                                                                                            Cardiology West Wing
                                                                                                                                                                      183
                                                                                                                                                                                                Oncology Main Building
                                                                                                                    126
 11
       Grace Clark
                         Emergency Department East Wing
                                                            69
                                                                                    Intensive Care Unit East Wing
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                                                                                                                           Sophia Miller
                                                                                                                                             Cardiology West Wing
                                                                                                                                                                            William Brown
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 12
       Henry Adams
                         Emergency Department East Wing
                                                                                   Intensive Care Unit East Wing
                                                                                                                          Noah Wilson
                                                                                                                                            Cardiology West Wing
                                                                  Ethan Anderson
                                                            70
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                                                                                                                                                                      185
                                                                                                                                                                             Ava Jones
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                         Emergency Department East Wing
 13
       Sophie Baker
                                                                  Grace Clark
                                                                                    Intensive Care Unit East Wing
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                                                                                                                                            Cardiology West Wing
                                                                                                                    129
                                                                                                                                                                            Liam Davis
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 14
       Jack Campbell
                        Emergency Department East Wing
                                                                  Henry Adams
                                                                                    Intensive Care Unit East Wing
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                                                                                                                           Ethan Anderson
                                                                                                                                            Cardiology West Wing
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       Oliver Clarkson
                        Emergency Department East Wing
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                                                                  Sophie Baker
                                                                                    Intensive Care Unit East Wing
                                                                                                                                            Cardiology West Wing
                                                            73
                                                                                                                    131
                                                                                                                                                                            Noah Wilson
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                        Emergency Department East Wing
       Chloe Cooper
                                                                                    Intensive Care Unit East Wing
 16
                                                                  Jack Campbell
                                                                                                                          Henry Adams
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                        Emergency Department East Wing
 17
       Lucas Evans
                                                                  Oliver Clarkson
                                                                                    Intensive Care Unit East Wing
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                                                                                                                           Sophie Baker
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 18
       Lilv Fisher
                         Emergency Department East Wing
                                                                  Chloe Cooper
                                                                                    Intensive Care Unit East Wing
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                                                                                                                                                                            Ethan Anderson
                                                                                                                          Jack Campbell
                                                            76
                                                                                                                    134
                                                                                                                                                                            Grace Clark
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                         Emergency Department East Wing
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 19
       Mia Grav
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                                                                  Lucas Evans
                                                                                    Intensive Care Unit East Wing
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                                                                                                                                            Cardiology West Wing
                        Emergency Department East Wing
 20
       Owen Harris
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                                                                  Lily Fisher
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                                                                                                                           Chloe Cooper
                                                                                                                                             Cardiology West Wing
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                                                                                                                                                                            Henry Adams
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                         Pediatrics West Wing
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 22
                        Pediatrics West Wing
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       James Johnson
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                                                                  Owen Harris
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                                                                                                                          Lily Fisher
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                                                                                                                                                                            Jack Campbell
 23
       Olivia Williams
                        Pediatrics West Wing
                                                            81
                                                                  Emma Smith
                                                                                    Maternity North Wing
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                                                                                                                                                                            Oliver Clarkson
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                                                                                                                                                                            Chloe Cooper
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 25
       Ava Jones
                         Pediatrics West Wing
                                                                  Olivia Williams
                                                            83
                                                                                    Maternity North Wing
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                                                                                                                          Emma Smith
                                                                                                                                            Neurology Main Building
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                                                                                                                                                                                                Oncology Main Building
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 26
       Liam Davis
                        Pediatrics West Wing
                                                            84
                                                                  William Brown
                                                                                    Maternity North Wing
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                                                                                                                           James Johnson
                                                                                                                                            Neurology Main Building
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       Sophia Miller
                         Pediatrics West Wing
                                                                  Ava Jones
                                                                                    Maternity North Wing
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                                                            85
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 28
       Noah Wilson
                         Pediatrics West Wing
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                                                                                    Maternity North Wing
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                                                                                                                          William Brown
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 29
       Isabella Taylor
                        Pediatrics West Wing
                                                                  Sophia Miller
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       Ethan Anderson
                        Pediatrics West Wing
                                                                  Noah Wilson
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                                                                                                                          Liam Davis
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 31
       Grace Clark
                         Pediatrics West Wing
                                                                  Isabella Taylor
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                                                                                                                           Sophia Miller
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 32
       Henry Adams
                        Pediatrics West Wing
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                                                                                                                           Noah Wilson
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 33
       Sophie Baker
                         Pediatrics West Wing
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                                                                  Grace Clark
                                                                                    Maternity North Wing
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                                                                                                                          Isabella Taylor
                                                                                                                    149
 34
       Jack Campbell
                         Pediatrics West Wing
                                                                                    Maternity North Wing
                                                            92
                                                                  Henry Adams
                                                                                                                     150
                                                                                                                          Ethan Anderson
                                                                                                                                            Neurology Main Building
 35
       Oliver Clarkson
                        Pediatrics West Wing
                                                            93
                                                                  Sophie Baker
                                                                                    Maternity North Wing
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                                                                                                                           Grace Clark
                                                                                                                                             Neurology Main Building
                         Pediatrics West Wing
       Chloe Cooper
                                                            94
                                                                  Jack Campbell
                                                                                    Maternity North Wing
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                                                                                                                    152
 37
       Lucas Evans
                         Pediatrics West Wing
                                                                  Oliver Clarkson
                                                                                    Maternity North Wing
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                                                                                                                    153
                                                                                                                          Sophie Baker
                                                                                                                                            Neurology Main Building
 38
       Lily Fisher
                        Pediatrics West Wing
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                                                                  Chloe Cooper
                                                                                    Maternity North Wing
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                                                                                                                           Jack Campbell
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       Mia Gray
                         Pediatrics West Wing
                                                                  Lucas Evans
                                                                                    Maternity North Wing
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 40
       Owen Harris
                         Pediatrics West Wing
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                                                                                    Maternity North Wing
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 41
       Emma Smith
                         Surgical Main Building
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                                                                  Mia Grav
                                                                                    Maternity North Wing
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                                                                                                                           Lucas Evans
                                                                                                                                            Neurology Main Building
                         Surgical Main Building
 42
       James Johnson
                                                                  Owen Harris
                                                                                    Maternity North Wing
                                                                                                                                            Neurology Main Building
                                                                                                                          Lilv Fisher
                                                                                                                    158
 43
       Olivia Williams
                         Surgical Main Building
                                                            101
                                                                  Emma Smith
                                                                                    Orthopedic South Wing
                                                                                                                    159
                                                                                                                          Mia Grav
                                                                                                                                            Neurology Main Building
       William Brown
 44
                         Surgical Main Building
                                                            102
                                                                  James Johnson
                                                                                    Orthopedic South Wing
                                                                                                                           Owen Harris
                                                                                                                                            Neurology Main Building
 45
       Ava Jones
                         Surgical Main Building
                                                                  Olivia Williams
                                                                                    Orthopedic South Wing
                                                                                                                          Emma Smith
                                                                                                                                            Psychiatric East Wing
                                                                                                                    161
 46
       Liam Davis
                         Surgical Main Building
                                                            104
                                                                  William Brown
                                                                                    Orthopedic South Wing
                                                                                                                          James Johnson
                                                                                                                                            Psychiatric East Wing
       Sonhia Miller
                                                                                    Orthopedic South Wing
 47
                         Surgical Main Building
                                                            105
                                                                  Ava Jones
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                                                                                                                           Olivia Williams
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       Noah Wilson
                         Surgical Main Building
                                                                  Liam Davis
                                                                                    Orthopedic South Wing
                                                                                                                          William Brown
                                                                                                                                            Psychiatric East Wing
                                                                                                                    164
       Isabella Taylor
 49
                         Surgical Main Building
                                                                  Sophia Miller
                                                            107
                                                                                    Orthopedic South Wing
                                                                                                                                            Psychiatric East Wing
                                                                                                                     165
                                                                                                                          Ava Jones
       Ethan Anderson
 50
                        Surgical Main Building
                                                            108
                                                                  Noah Wilson
                                                                                    Orthopedic South Wing
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                                                                                                                           Liam Davis
                                                                                                                                            Psychiatric East Wing
       Grace Clark
                         Surgical Main Building
                                                                  Isabella Taylor
                                                                                    Orthopedic South Wing
                                                                                                                          Sophia Miller
                                                                                                                                             Psychiatric Fast Wing
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 52
       Henry Adams
                         Surgical Main Building
                                                            110
                                                                  Ethan Anderson
                                                                                    Orthopedic South Wing
                                                                                                                          Noah Wilson
                                                                                                                                            Psychiatric East Wing
                                                                                                                     168
 53
       Sophie Baker
                         Surgical Main Building
                                                            111
                                                                  Grace Clark
                                                                                    Orthopedic South Wing
                                                                                                                     169
                                                                                                                           Isabella Taylor
                                                                                                                                             Psychiatric East Wing
       Jack Campbell
                         Surgical Main Building
                                                                                    Orthopedic South Wing
                                                            112
                                                                  Henry Adams
                                                                                                                    170
                                                                                                                          Ethan Anderson
                                                                                                                                            Psychiatric East Wing
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56

58

Oliver Clarkson

Chloe Cooper

Lucas Evans

Lily Fisher

Surgical Main Building

Surgical Main Building

Surgical Main Building

Surgical Main Building

113

114

Sophie Baker

Jack Campbell

Oliver Clarkson

Chloe Cooper

Orthopedic South Wing

Orthopedic South Wing

Orthopedic South Wing

Orthopedic South Wing

171

172

173

Grace Clark

Henry Adams

Sophie Baker

Jack Campbell

Psychiatric East Wing

Psychiatric East Wing

Psychiatric East Wing

Psychiatric East Wing

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□--Part 2) Question 9
      /*Create a distribution of beds across all wards, and a distribution of all wards
     across beds*/
    □ SELECT
            CONCAT (B.bedNo, ' ', B.type, ' ', B.size) AS 'bed_number_type_size', W.location AS 'ward_name'
           Bed as B
      CROSS JOIN
           Ward AS W
100 % - 4
bed_number_type_size
                            ward name
                                                                    6 manual L
                                                                                              Oncology Main Building
                             Emergency Department East Wing
                                                              60
     1 manual L
                             Pediatrics West Wing
                                                                    7 manual L
                                                                                              Emergency Department East Wing
                                                              61
                             Surgical Main Building
      1 manual L
                                                              62
                                                                    7 manual L
                                                                                              Pediatrics West Wing
      1 manual L
                             Intensive Care Unit East Wing
                                                              63
                                                                    7 manual I
                                                                                              Surgical Main Building
                             Maternity North Wing
                                                                    7 manual I
                                                                                              Intensive Care Unit East Wing
                                                              64
      1 manual I
                             Orthopedic South Wing
                                                                                              Maternity North Wing
                                                              65
                                                                    7 manual L
      1 manual L
                             Cardiology West Wing
                                                              66
                                                                    7 manual L
                                                                                              Orthopedic South Wing
      1 manual L
                             Neurology Main Building
                                                                    7 manual L
                                                                                              Cardiology West Wing
                             Psychiatric Fast Wing
                                                              67
      1 manual I
                             Oncology Main Building
                                                              68
                                                                    7 manual L
                                                                                              Neurology Main Building
      1 manual L
                             Emergency Department East Wing
      2 manual L
                                                                    7 manual L
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                                                                                              Psychiatric East Wing
      2 manual L
                             Pediatrics West Wing
                                                                    7 manual L
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                                                                                              Oncology Main Building
      2 manual L
                             Surgical Main Building
13
                                                                    8 electric XL
                                                                                              Emergency Department East Wing
                                                              71
                             Intensive Care Unit East Wing
      2 manual I
                                                                    8 electric XL
                                                                                              Pediatrics West Wing
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      2 manual L
                             Maternity North Wing
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                                                                    8 electric XL
                                                                                              Surgical Main Building
      2 manual L
                             Orthopedic South Wing
16
                                                              74
                                                                    8 electric XL
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                             Cardiology West Wing
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                                                                    8 electric XL
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                             Neurology Main Building
      2 manual I
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                                                              76
                                                                    8 electric XI
                                                                                              Orthopedic South Wing
19
      2 manual I
                             Oncology Main Building
                                                              77
                                                                    8 electric XL
                                                                                              Cardiology West Wing
      3 manual S
                             Emergency Department East Wing
21
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                             Pediatrics West Wing
22
      3 manual S
                                                              79
                                                                    8 electric XL
                                                                                              Psychiatric East Wing
      3 manual S
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                                                                    8 electric XL
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                                                                                              Oncology Main Building
      3 manual S
                             Intensive Care Unit East Wing
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      3 manual S
                             Maternity North Wing
                                                              82
                                                                    9 manual L
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                             Orthopedic South Wing
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26
                                                                    9 manual L
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                                                                                              Surgical Main Building
      3 manual S
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27
      3 manual S
                             Neurology Main Building
                                                                    9 manual L
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      3 manual S
                             Psychiatric East Wing
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                             Oncology Main Building
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      3 manual S
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                                                                    9 manual L
                             Emergency Department East Wing
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      4 electric L
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                                                                                              Cardiology West Wing
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      4 electric L
                             Pediatrics West Wing
32
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      4 electric I
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                             Intensive Care Unit East Wing
34
                                                                    9 manual L
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      4 electric I
                             Maternity North Wing
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      4 electric L
                             Orthopedic South Wing
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                                                                    10 manual XL
                                                                                              Emergency Department East Wing
      4 electric L
                             Cardiology West Wing
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                                                                    10 manual XL
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                             Neurology Main Building
38
      4 electric I
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      5 manual XI
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      5 manual XL
                             Pediatrics West Wing
42
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                                                                                              Cardiology West Wing
      5 manual XI
                             Surgical Main Building
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      5 manual XL
                             Intensive Care Unit East Wing
                                                              98
      5 manual XL
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                                                                                              Psychiatric Fast Wing
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                             Psychiatric East Wing
      5 manual XL
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50
                             Emergency Department East Wing
      6 manual I
                             Pediatrics West Wing
      6 manual L
      6 manual L
                             Surgical Main Building
      6 manual I
                             Intensive Care Unit East Wing
      6 manual L
                             Maternity North Wing
55
                             Orthopedic South Wing
      6 manual I
      6 manual I
                             Cardiology West Wing
                             Neurology Main Building
      6 manual L
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6 manual L

Psychiatric East Wing