```
/* 1) View- Patients admitted to hospital in a certain month, their admitting physician, bed
                                                                                                                              _{
m -}/^* 1) SPROC- Patients admitted to hospital in a certain month, their admitting physician, bed
     assigned and ward, sorted by most recent date.*/
                                                                                                                               assigned and ward, sorted by most recent date.*/
     CREATE VIEW PatientBedWardDocAssignment_VW
                                                                                                                               CREATE PROC PatientBedWardDocAssignment_SPROC
     SELECT TOP 1000
         P.lastName AS 'Patient Last Name',
                                                                                                                               SELECT
                                                                                                                                    P.lastName AS 'Patient Last Name',
         B.type AS 'Bed_Type'
         B.size AS 'Bed_Size',
W.location AS 'Ward_Name',
                                                                                                                                    B.type AS 'Bed_Type',
B.size AS 'Bed_Size',
W.location AS 'Ward_Name
          PH.lastName AS 'Admitting_Doc'
                                                                                                                                    PH.lastName AS 'Admitting_Doc'
          Month(AD.admitDate) AS 'Month Admitted',
                                                                                                                                       nth(AD.admitDate) AS 'Month_Admitted',
         AD.admitDate AS 'Date Admitted
                                                                                                                                    AD.admitDate AS 'Date_Admitted
         AdultDischarge AS AD
                                                                                                                                    AdultDischarge AS AD
     JOTN
                                                                                                                               JOTN
         Physician AS PH ON AD.admitDoc=PH.doctorID
                                                                                                                                    Physician AS PH ON AD.admitDoc=PH.doctorID
         Patient AS P ON AD.patientNo=P.patientNo
                                                                                                                                    Patient AS P ON AD.patientNo=P.patientNo
     JOIN
                                                                                                                               JOIN
         Bed AS B ON P.bedNo=B.bedNo
                                                                                                                                    Bed AS B ON P.bedNo=B.bedNo
     JOIN
                                                                                                                               JOIN
         Ward AS W ON B.wardID=W.wardID
                                                                                                                                    Ward AS W ON B.wardID=W.wardID
     WHERE
                                                                                                                               WHERE
         MONTH(AD.admitDate)=2
                                                                                                                                    MONTH(AD.admitDate)=2
     ORDER BY AD.admitDate
                                                                                                                               ORDER BY AD.admitDate
    SELECT
    FROM PatientBedWardDocAssignment_VW
                                                                                                                               EXEC PatientBedWardDocAssignment_SPROC
                                                                                                                         100 % - 4
                                                                                                                          ■ Results 

Messages
Patient Last Name Bed Type Bed Size Ward Name
                                                                        Admitting Doc Month Admitted Date Admitted
                                                                                                                               Patient Last Name Bed_Type Bed_Size Ward_Name
                                                                                                                                                                                                 Admitting_Doc | Month_Admitted | Date_Admitted
                                          Emergency Department East Wing
                                                                        Lancaster
                                                                                                      2024-02-01
    Donald
                                                                                                                                                                    Emergency Department East Wing
                                                                                                                                                                                                                              2024-02-01
                                                                                                                               Donald
                                                                                                                                                manual
                                                                                                                                                                                                Lancaster
                                          Pediatrics West Wing
     Smith
                      manual
                                                                        Delgado
                                                                                                      2024-02-02
                                                                                                                                                                    Pediatrics West Wing
                                                                                                                                                                                                 Delgado
                                                                                                                                                                                                                              2024-02-02
                                          Surgical Main Building
                                                                        Hawthorne
                                                                                                      2024-02-03
     Johnson
                      manual
                                                                                                                               Johnson
                                                                                                                                                manual
                                                                                                                                                                    Surgical Main Building
                                                                                                                                                                                                 Hawthorne
                                                                                                                                                                                                                              2024-02-03
                                                                                                      2024-02-04
     Williams
                      electric
                                          Intensive Care Unit East Wing
                                                                        Whitaker
                                                                                                                                                                    Intensive Care Unit East Wing
                                                                                                                                                                                                 Whitaker
                                                                                                                                                                                                                              2024-02-04
                                                                                                                                                electric
                                                                                                                               Williams
                                                                                                                                                                    Maternity North Wing
                                                                                                                                                                                                 McKinney
     Brown
                      manual
                                ΧI
                                          Maternity North Wing
                                                                        McKinney
                                                                                                      2024-02-05
                                                                                                                               Brown
                                                                                                                                                manual
                                                                                                                                                          XL
                                                                                                                                                                                                                              2024-02-05
                                          Orthopedic South Wing
                                                                        Chambers
                                                                                                      2024-02-06
     Taylor
                      manual
                                L
                                                                                                                          6
                                                                                                                               Taylor
                                                                                                                                                manual
                                                                                                                                                                    Orthopedic South Wing
                                                                                                                                                                                                 Chambers
                                                                                                                                                                                                                              2024-02-06
                      manual
                                          Cardiology West Wing
                                                                        Hendricks
                                                                                                      2024-02-07
                                                                                                                                                manual
                                                                                                                                                                    Cardiology West Wing
                                                                                                                                                                                                 Hendricks
                                                                                                                                                                                                                              2024-02-07
     Garcia
                      electric
                                ΧI
                                          Neurology Main Building
                                                                        Henson
                                                                                                      2024-02-08
                                                                                                                               Garcia
                                                                                                                                                electric
                                                                                                                                                          ΧI
                                                                                                                                                                    Neurology Main Building
                                                                                                                                                                                                 Henson
                                                                                                                                                                                                                              2024-02-08
     Lopez
                      manual
                                          Psychiatric East Wing
                                                                        Harrington
                                                                                                      2024-02-09
                                                                                                                               Lopez
                                                                                                                                                manual
                                                                                                                                                                    Psychiatric East Wing
                                                                                                                                                                                                 Harrington
                                                                                                                                                                                                                              2024-02-09
    Rodriguez
                                          Oncology Main Building
                                                                        Montgomery
                                                                                                                          10
                                                                                                                               Rodrique
                                                                                                                                                                    Oncology Main Building
                                                                                                                                                                                                 Montgomery
                                                                                                                                                                                                                              2024-02-10
                      manual
                                                                                                                                        USE [Hospital]
  USE [Hospital]
  /****** Object: StoredProcedure [dbo].[PatientBedWardDocAssignment_PARA] Script Date: 2/24/2024 4:58:10 AM ******/
SET ANSI_NULLS ON
                                                                                                                                       □DECLARE @return value int
  SET QUOTED IDENTIFIER ON
                                                                                                                                                  @return_value = [dbo].[PatientBedWardDocAssignment_PARA]
                                                                                                                                                  @PatientLastName = N'D
  _{
m D/*} 1) PARAMETER- Patients admitted to hospital in a certain month, their admitting physician, bed
                                                                                                                                                  @AdmittingDoctorLastName = N'%'
  ALTER PROC [dbo] [PatientBedWardDocAssignment PARA] @PatientLastName nvarchar(25), @AdmittingDoctorLastName nvarchar(25)
                                                                                                                                        SELECT 'Return Value' = @return_value
  BEGIN
SELECT
      P.lastName AS 'Patient Last Name',
      P.lastName AS 'Patient Last Name',
B.stype AS 'Bed_Type',
B.size AS 'Bed_Size',
W.location AS 'Wand Name',
PH.lastName AS 'Admitting_Doc',
Month(AD.admitDate) AS 'Month_Admitted',
                                                                                                                                   ■ Results 

Messages
                                                                                                                                        Patient Last Name Bed_Type Bed_Size Ward_Name
                                                                                                                                                                                                        Admitting_Doc | Month_Admitted | Date_Admitted
                                                                                                                                                                           Emergency Department East Wing Lancaster
                                                                                                                                       Donald
                                                                                                                                                     manual
                                                                                                                                                                                                                                    2024-02-01
      AD.admitDate AS 'Date_Admitted
      AdultDischarge AS AD
                                                                                                                                       --1) Logic Check
                                                                                                                                       SELECT *
      Physician AS PH ON AD.admitDoc=PH.doctorID
                                                                                                                                       FROM PatientBedWardDocAssignment_VW
                                                                                                                                       WHERE [Patient Last Name] LIKE
      Patient AS P ON AD.patientNo=P.patientNo
      Bed AS B ON P.bedNo=B.bedNo
                                                                                                                                  Ward AS W ON B.wardID=W.wardID
                                                                                                                                       Patient Last Name | Bed_Type | Bed_Size | Ward_Name
                                                                                                                                                                                                        Admitting_Doc Month_Admitted Date_Admitted
         NTH(AD.admitDate)=2 AND (P.lastName like @PatientLastName + 🟋) AND (PH.lastName like @AdmittingDoctorLastName + 🏋)
                                                                                                                                                                           Emergency Department East Wing Lancaster
                                                                                                                                      Donald
                                                                                                                                                       manual
                                                                                                                                                                                                                                     2024-02-01
```

Using already created view to logic check parametric SPROC of Patient Last Name starting with the letter D

```
/*2) SPROC- Physician total admits for the past year, sorted by date.*/
    /*2) View- Physician total admits for the past year, sorted by date.*/
                                                                                         CREATE PROC PhysicianAdmits_SPROC
    CREATE VIEW PhysicianAdmits_VW
                                                                                         AS
                                                                                        BEGIN
    SELECT TOP 1000
                                                                                        ⊢SELECT
        P.lastName AS 'Doctor Last Name'
                                                                                             P.lastName AS 'Doctor Last Name',
        AD.admitDate AS 'Date Doctor Admitted a Patient'
                                                                                             AD.admitDate AS 'Date Doctor Admitted a Patient'
        AdultDischarge AD
                                                                                              AdultDischarge AD
    JOIN
        Physician P ON AD.admitDoc=P.doctorID
                                                                                             Physician P ON AD.admitDoc=P.doctorID
    JOTN
                                                                                          JOIN
        Patient PA ON AD.patientNo=PA.patientNo
                                                                                             Patient PA ON AD.patientNo=PA.patientNo
    WHERE
                                                                                          WHERE
        AD.admitDate >= DATEADD(year, -1, GETDATE()) -- anything in the past year
                                                                                             AD.admitDate >= DATEADD(year, -1, GETDATE()) -- anything in the past year
    ORDER BY AD.admitDate
                                                                                          ORDER BY AD.admitDate
   FROM PhysicianAdmits VW
                                                                                         EXEC PhysicianAdmits SPROC
                                                                                    100 % - 4
100 % 🕶 🖣
                                                                                     Doctor Last Name Date Doctor Admitted a Patient
    Doctor Last Name Date Doctor Admitted a Patient
                                                                                         Lancaster
                                                                                                       2024-02-01
                 2024-02-01
    Lancaster
                                                                                                       2024-02-02
                                                                                     2
                                                                                          Delgado
    Delgado
                  2024-02-02
                                                                                     3
                                                                                         Hawthorne
                                                                                                       2024-02-03
    Hawthorne
                  2024-02-03
                                                                                          Whitaker
                                                                                                       2024-02-04
    Whitaker
                  2024-02-04
                                                                                          McKinney
                                                                                                       2024-02-05
    McKinney
                  2024-02-05
                                                                                          Chambers
                                                                                                       2024-02-06
    Chambers
                  2024-02-06
                                                                                          Hendricks
                                                                                                       2024-02-07
                  2024-02-07
    Hendricks
                                                                                          Henson
                                                                                                       2024-02-08
                  2024-02-08
    Henson
                                                                                          Harrington
                                                                                                       2024-02-09
    Harrington
                  2024-02-09
                                                                                         Montgomery
                                                                                                       2024-02-10
                                                                                     10
                  2024-02-10
    Montgomery
                                                                                                            USE [Hospital]
    /*2) Parameter- Physician total admits for the past year, sorted by date */
   □CREATE PROC PhysicianAdmits_PARA @DoctorLastName_nvarchar(20), @PatientAdmitDate_date
    AS
   ⊨BEGIN
                                                                                                          □DECLARE @return value int
   SELECT
        P.lastName AS 'Doctor Last Name'.
                                                                                                                     @return_value = [dbo].[PhysicianAdmits_PARA]
                                                                                                          Ė EXEC
        AD.admitDate AS 'Date Doctor Admitted a Patient'
                                                                                                                     @DoctorLastName = N'L',
    FROM
                                                                                                                     @PatientAdmitDate = '2024-02-01'
        AdultDischarge AD
    JOIN
                                                                                                            SELECT 'Return Value' = @return_value
        Physician P ON AD.admitDoc=P.doctorID
    JOIN
        Patient PA ON AD.patientNo=PA.patientNo
                                                                                                            GO
    WHERE
        AD.admitDate >= DATEADD(year, -1, GETDATE()) and -- anything in the past year
                                                                                                      100 % -
         (P.lastName like @DoctorLastName + '%') and
                                                                                                       ■ Results Messages
        AD.admitDate = @PatientAdmitDate
                                                                                                            Doctor Last Name Date Doctor Admitted a Patient
    ORDER BY AD.admitDate
                                                                                                           Lancaster
                                                                                                                           2024-02-01
    END
                                                                                                       --2) Logic Check
                                                                                                      □ SELECT 3
                                                                                                       FROM PhysicianAdmits_VW
                                                                                                       WHERE [Date Doctor Admitted a Patient] = '2024-02-01'
                                                                                                  100 % ▼ <
                                                                                                  Doctor Last Name Date Doctor Admitted a Patient
```

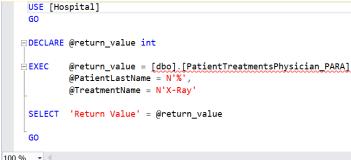
Lancaster

2024-02-01

Christian Castillo ISM 4212

```
Hospital Database Views/SPROCs and Parameters
= |*3| SPROC- 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. */
 CREATE PROC PatientTreatmentsPhysician_SPROC
  AS
 BEGIN
 SELECT
       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'
       TreatmentAdministration AS TA
       Patient AS P ON TA.patientNo=P.patientNo
  JOIN
       Physician AS PH ON TA.doctorID=PH.doctorID
      Treatment AS T ON TA.treatmentNo=T.treatmentNo
  ORDER BY TA.dateTime
  EXECUTE PatientTreatmentsPhysician_SPROC
```

100 9	6 - 4			
	esults Messages			
	Patient_Last_Name	Treatment_Name	Physician_Last_Name	Treatment_Date
1	Donald	X-ray	Hawthorne	2024-02-01
2	Johnson	Blood Test	Chambers	2024-02-03
3	Williams	Splinting	Lancaster	2024-02-04
4	Brown	Stitching	Harrington	2024-02-05
5	Taylor	Dressing Change	McKinney	2024-02-06
6	Martinez	Casting	Henson	2024-02-07
7	Garcia	IV Fluids	Lancaster	2024-02-08
8	Lopez	EKG	Whitaker	2024-02-09
9	Rodriguez	Nebulization	Hendricks	2024-02-10
10	Donald	Splinting	Lancaster	2024-02-19
11	Smith	Blood Test	McKinney	2024-02-20
12	Johnson	IV Fluids	Montgomery	2024-02-21
13	Williams	Stitching	Hawthorne	2024-02-22
14	Brown	X-ray	Hendricks	2024-02-23
15	Taylor	Nebulization	Harrington	2024-02-24
16	Martinez	Ultrasound	Delgado	2024-02-25
17	Garcia	Dressing Change	Chambers	2024-02-26
18	Lopez	EKG	Whitaker	2024-02-27
19	Rodriguez	Casting	Henson	2024-02-28



⊞F	Results Messages					
	Patient_Last_Name	Treatment_Name	Physician_Last_Name	Treatment_Date		
1	Donald	X-ray	Hawthorne	2024-02-01		
2	Brown	X-ray	Hendricks	2024-02-23		
	3)Logic Check					

```
FSELECT *
FROM PatientTreatmentsPhysician VW
WHERE [Treatment_Name] = 'X-Ray'

100 % 
Patient_Last_Name | Treatment_Name | Physician_Last_Name | Treatment_Date |
Donald | X-ray | Hawthorne | 2024-02-01 |
Brown | X-ray | Hendricks | 2024-02-23
```

⊡/*3) View- 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. */
CREATE VIEW PatientTreatmentsPhysician_VW
AS
SELECT TOP 1000
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
SELECT *
FROM PatientTreatmentsPhysician_VW
% - 4

	Patient_Last_Name	Treatment_Name	Physician_Last_Name	Treatment_Date	
1	Donald	X-ray	Hawthorne	2024-02-01	
2	Johnson	Blood Test	Chambers	2024-02-03	
3	Williams	Splinting	Lancaster	2024-02-04	
4	Brown	Stitching	Harrington	2024-02-05	
5	Taylor	Dressing Change	McKinney	2024-02-06	
6	Martinez	Casting	Henson	2024-02-07	
7	Garcia	IV Fluids	Lancaster	2024-02-08	
8	Lopez	EKG	Whitaker	2024-02-09	
9	Rodriguez	Nebulization	Hendricks	2024-02-10	
10	Donald	Splinting	Lancaster	2024-02-19	
11	Smith	Blood Test	McKinney	2024-02-20	
12	Johnson	IV Fluids	Montgomery	2024-02-21	
13	Williams	Stitching	Hawthorne	2024-02-22	
14	Brown	X-ray	Hendricks	2024-02-23	
15	Taylor	Nebulization	Harrington	2024-02-24	
16	Martinez	Ultrasound	Delgado	2024-02-25	
17	Garcia	Dressing Change	Chambers	2024-02-26	
18	Lopez	EKG	Whitaker	2024-02-27	
19	Rodriguez	Casting	Henson	2024-02-28	

```
□/*3) SPROC- 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. */
CREATE PROC PatientTreatmentsPhysician_PARA @PatientLastName nvarchar(25), @TreatmentName varchar(20)
BEGIN
SELECT
    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
     Patient AS P ON TA.patientNo=P.patientNo
     Physician AS PH ON TA.doctorID=PH.doctorID
     Treatment AS T ON TA.treatmentNo=T.treatmentNo
 WHERE
     (P.lastName LIKE @PatientLastName + '%') and
     (T.name LIKE @TreatmentName + '%')
 ORDER BY TA.dateTime
END:
```

```
/*4) View- Patient itemized bill: List of treatments and items, by charge and sorted by date.*/
                                                                                                                                                                                                                                     /*4) SPROC- Patient itemized bill: List of treatments and items, by charge and sorted by date.*/
                                                                                                                                                                                                                                     ALTER PROC PatientBills_SPROC
                        SELECT TOP 100
'Treatment' AS 'Type',
                                                                                                                                                                                                                                    BEGIN
                                                                                                                                                                                                                                    SELECT
                               'Ireatment' AS 'Type',
T.name AS 'Mame',
T.change AS 'Charge',
CAST(TA.dateTime AS DATE) AS 'Date', --casts the date from dateTime column
P.lastName AS 'Patient Last Name'
                                                                                                                                                                                                                                            ECT
'Treatment' AS 'Type',
T.name AS 'Name',
T.charge AS 'Charge',
CAST(TA.dataTime AS DATE) AS 'Date', --casts the date from dateTime column
P.lastName AS 'Patient Last Name'
                                TreatmentAdministration AS TA
                                 Treatment AS T ON TA.treatmentNo = T.treatmentNO
                                                                                                                                                                                                                                             TreatmentAdministration AS TA
                               Patient AS P ON TA.patientNo = P.patientNo
                                                                                                                                                                                                                                             Treatment AS T ON TA.treatmentNo = T.treatmentNO
                                                                                                                                                                                                                                    LEFT
                        UNION --Combines the results of both SELECT statements
                                                                                                                                                                                                                                            Patient AS P ON TA.patientNo = P.patientNo
                       SELECT TOP 100
'Item' AS 'Type',
I.name AS 'Name',
I.charge AS 'Charge',
IC.date,
                                                                                                                                                                                                                                    UNION --Combines the results of both SELECT statements
                                                                                                                                                                                                                                            I.name AS 'Name',
I.charge AS 'Charge',
                                                                                                                                                                                                                                             IC.date
                                                                                                                                                                                                                                            P.lastName
                      Item AS I ON IC.itemNo = I.itemNo
                                                                                                                                                                                                                                             ItemCharge AS IC
                      Patient AS P ON IC.patientNo = P.patientNo
ORDER BY Date
                                                                                                                                                                                                                                   JOIN
                                                                                                                                                                                                                                             Item AS I ON IC.itemNo = I.itemNo
                                                                                                                                                                                                                                    LEFT
                      SELECT *
                                                                                                                                                                                                                                             Patient AS P ON IC.patientNo = P.patientNo
                       FROM PatientBills_VW
ORDER BY Date
                                                                                                                                                                                                                                    ORDER BY Date
                                                                                                                                                                                                                                   EXECUTE PatientBills_SPROC

        Charge
        Date
        Patient Last Name

        5.50
        2024-02-01
        Donald

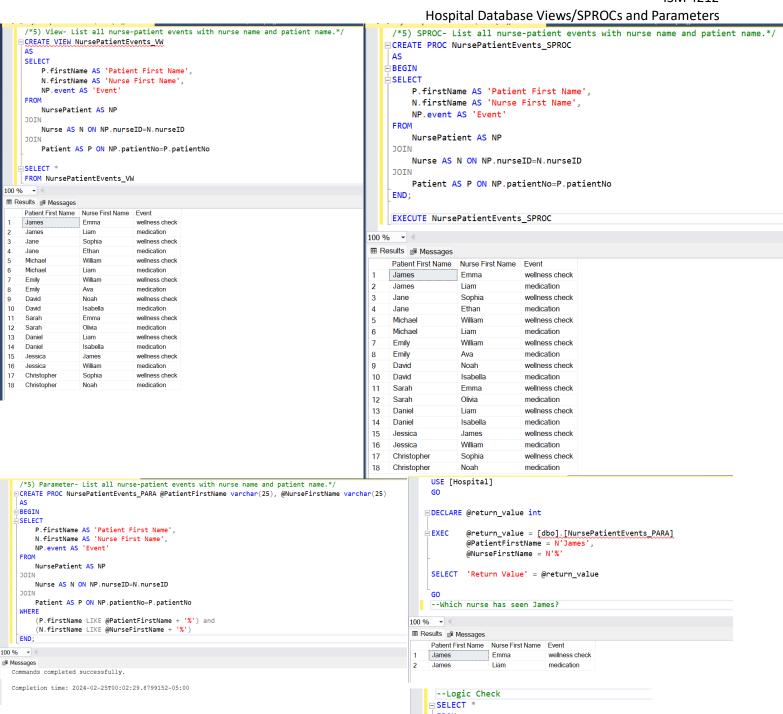
        200.00
        2024-02-01
        Donald

        2.25
        2024-02-02
        Smith

        20.50
        2024-02-03
        Johnson

        100.00
        2024-02-03
        Johnson

                     Type Name
Item Strong Bandage
Treatment X-ray
Item Syringe
Item Antibiotics
                                                                                                                                                                                                                           Name Charge Date Patient L
Strong Bandage 5.50 2024-02-01 Donald
                        Treatment Blood Test
                                                                 20.00 20.4 (20.3 solement)
190 20.4 (20.2 solement)
190 20.4 (20.2 solement)
290 20.4 (20.4 Williams)
290 20.4 (20.4 Williams)
1900 20.4 (20.4 Williams)
1900 20.4 (20.5 Brown)
19.90 20.4 (20.5 Brown)
19.90 20.4 (20.6 Taylor)
19.90 20.4 (20.6 Taylor)
19.90 20.4 (20.6 Taylor)
19.90 20.4 (20.4 Taylor)
19.90 20.4 (20.4 Taylor)
20.90 20.4 (20.4 Tayl
                                                                                                                                                                                                                                                                                   200.00 2024-02-01 Donald
                                                                                                                                                                                                                                                     X-ray
                                                                                                                                                                                                                                                     Syringe
Antibiotics
Blood Test
Alcohol Swabs
                                                                                                                                                                                                                                     Item
                                                                                                                                                                                                                                                                                   2.25
                                                                                                                                                                                                                                                                                                2024-02-02 Smith
                                                                                                                                                                                                                                                                                                 2024-02-03 Johnson
                                                                                                                                                                                                                                                                                  20.50 2024-02-03 Johnson
100.00 2024-02-03 Johnson
1.99 2024-02-04 Williams
250.00 2024-02-04 Williams
                                                                                                                                                                                                                                     Treatment Splinting
                                                                                                                                                                                                                           8
9
10
11
12
13
14
15
16
17
18
19
20
21
                                                                                                                                                                                                                                     Item
                                                                                                                                                                                                                                                       Sanitizer
                                                                                                                                                                                                                                                                                   2.99
                                                                                                                                                                                                                                                                                                 2024-02-05 Brown
                                                                                                                                                                                                                                     Treatment Stitching
Item Painkillers
Treatment Dressing Change
Item Ace Bandage
                                                                                                                                                                                                                                                                                    150.00 2024-02-05 Brown
                                        Thermometer
EKG
Gloves
Nebulization
                                                                                                                                                                                                                                                                                  6.25
                                                                                                                                                                                                                                                                                                2024-02-07
                                                                                                                                                                                                                                     Treatment Casting
                                                                                                                                                                                                                                                                                   350.00 2024-02-07 Martinez
                                                                                                                                                                                                                                                                                   3.75
                                                                                                                                                                                                                                                                                                2024-02-08 Garcia
                                                                                                                                                                                                                                                                                  200.00 2024-02-08 Garcia
8.50 2024-02-09 Lopez
150.00 2024-02-09 Lopez
                                                                                                                                                                                                                                     Treatment IV Fluids
Item Thermom
                        Treatment Splinting
Treatment Blood Test
Treatment IV Fluids
                                                                                                                                                                                                                                     Treatment EKG
                       Item
                                                                                                                                                                                                                                                      Gloves
                                                                                                                                                                                                                                                                                   3.25
                                                                                                                                                                                                                                                                                                2024-02-10 Rodriguez
                                                                                                                                                                                                                                     Treatment Nebulization
                                                                                                                                                                                                                                                                                   200.00 2024-02-10 Rodrigues
                                                                                                                                                                                                                                     Treatment Splinting
Treatment Blood Test
Treatment IV Fluids
                                                                                                                                                                                                                                                                                  250.00 2024-02-10 Roungul
250.00 2024-02-19 Donald
100.00 2024-02-20 Smith
200.00 2024-02-21 Johnson
                                                                                                                                                                                                                                     Treatment
                                                                                                                                                                                                                                                      Stitching
                                                                                                                                                                                                                                                                                   150.00 2024-02-22
                                                                                                                                                                                                                                     Treatment X-ray
                                                                                                                                                                                                                                                                                  200.00 2024-02-23 Brown
                                                                                                                                                                                                                                                     Nebulization
Ultrasound
Dressing Change
                                                                                                                                                                                                                                                                                   200.00 2024-02-24 Taylor
    /*4) Parameter- Patient itemized bill: List of treatments and items, by charge and sorted by date.*/
|ALITER PROC PatientBills PARA @PatientLastName varchar(25), @TreatmentName varchar(20)
                                                                                                                                                                                                                                     Treatment EKG
                                                                                                                                                                                                                                                                                   150.00 2024-02-27 Lopez
     BEGIN
                                                                                                                                                                                                                           29
                                                                                                                                                                                                                                     Treatment Casting
                                                                                                                                                                                                                                                                                  350.00 2024-02-28 Rodriguez
             ECT
'Treatment' AS 'Type',
T.name AS 'Name',
T.charge AS 'Charge',
C.charge AS 'Charge',
CAST(TA.data-Time AS DATE) AS 'Date', --casts the date from dateTime column
P.lastName AS 'Patient Last Name'
                                                                                                                                                                                                                                          USE [Hospital]
                                                                                                                                                                                                                                      DECLARE @return_value int
             TreatmentAdministration AS TA
                                                                                                                                                                                                                                       EXEC @return_value = [dbo].[PatientBills_PARA]
                                                                                                                                                                                                                                                               @PatientLastName = N'Donald',
             Treatment AS T ON TA.treatmentNo = T.treatmentNO
                                                                                                                                                                                                                                                               @TreatmentName = N'%'
             Patient AS P ON TA.patientNo = P.patientNo
                                                                                                                                                                                                                                          SELECT 'Return Value' = @return_value
             P.lastName=@PatientLastName and (T.name LIKE @TreatmentName + '%')
     UNION --Combines the results of both SELECT statements
                                                                                                                                                                                                                              100 % -
           'Item' AS 'Type',
I.name AS 'Name',
I.charge AS 'Charge',
                                                                                                                                                                                                                               Type Name Charg
Item Strong Bandage 5.50
                                                                                                                                                                                                                                                                                                 Charge Date
                                                                                                                                                                                                                                                                                                                2024-02-01 Donald
             P.lastName
                                                                                                                                                                                                                                                                                                 200.00 2024-02-01 Donald
                                                                                                                                                                                                                                           Treatment X-ray
                                                                                                                                                                                                                                         Treatment Splinting
                                                                                                                                                                                                                                                                                                 250.00 2024-02-19 Donald
             ItemCharge AS IC
             Item AS I ON IC.itemNo = I.itemNo
                                                                                                                                                                                                                                        --Logic Check
             Patient AS P ON IC.patientNo = P.patientNo
   Patient AS P ON IC.patientN
WHERE
P.lastName=@PatientLastName
ORDER BY Date
END;
                                                                                                                                                                                                                                        FROM PatientBills VW
                                                                                                                                                                                                                                        WHERE [Patient Last Name] = 'Donald'
                                                                                                                                                                                                                             Type Name Charg
Item Strong Bandage 5.50
                                                                                                                                                                                                                                                                                                          2024-02-01 Donald
 Messages
Commands completed successfully.
                                                                                                                                                                                                                                         Treatment Splinting
                                                                                                                                                                                                                                                                                             250.00 2024-02-19 Donald
                                                                                                                                                                                                                                         Treatment X-ray
Completion time: 2024-02-24T23:45:42.0316969-05:00
                                                                                                                                                                                                                                                                                             200.00 2024-02-01 Donald
```



NursePatientEvents_VW

Patient First Name Nurse First Name Event Emma

Liam

100 % - 4 ■ Results ■ Messages

2

James

James

[Patient First Name] = 'James'

wellness check

medication

```
ISM 4212
                                                                                                         Hospital Database Views/SPROCs and Parameters
                                                                                                                     /*6) SPROC- Find missing values for beds with and without patients, and for patients with and
   oxdots/*6) View- Find missing values for beds with and without patients, and for patients with and
                                                                                                                     without beds.*/
CREATE PROC BedPatients_SPROC
    without beds.*/
    CREATE VIEW BedPatients_VW
     SELECT
                                                                                                                    SELECT
                                                                                                                        P.firstName AS 'Patient_Name',
B.bedNo AS 'Bed_Number',
B.type AS 'Bed_Type'
         P.firstName AS 'Patient_Name',
         B.bedNo AS 'Bed_Number',
B.type AS 'Bed_Type'
                                                                                                                        Patient AS P
     FROM
                                                                                                                     FULL 3
         Patient AS P
                                                                                                                        Bed AS B ON P.bedNo=B.bedNo
     FULL JOTN
                                                                                                                     END;
         Bed AS B ON P.bedNo=B.bedNo
                                                                                                                    EXECUTE BedPatients SPROC
   ⇒SELECT *
                                                                                                                 100 % - 4
    FROM BedPatients_VW
                                                                                                                 ■ Results Messages
100 % - 4
                                                                                                                                        manual
manual
     Patient Name Bed Number Bed Type
                                                                                                                     Emily
                                                                                                                                         electric
                            manual
    James
                                                                                                                     David
                                                                                                                                         manual
     Jane
                             manual
                                                                                                                     Sarah
Daniel
     Michael
                             manual
                                                                                                                                         manual
     Emily
                             electric
                                                                                                                     Jessica
                                                                                                                                         electric
     David
                             manual
                                                                                                                     Amanda
                                                                                                                                         manual
     Sarah
                 6
                             manual
                                                                                                                 11
12
13
                                                                                                                     John
Alice
                                                                                                                               NULL
                                                                                                                                        NULL
     Daniel
                             manual
     Jessica
                 8
                             electric
                                                                                                                     Robert
                                                                                                                               NULL
                                                                                                                                        NULL
                                                                                                                     Samantha
                                                                                                                               NULL
                                                                                                                                        NULL
     Christopher
                             manual
10
    Amanda
                 10
                             manual
                 NULL
                             NULL
11
    John
                 NULL
     Alice
                             NULL
12
     Robert
                 NULL
                             NULL
13
     Samantha
                 NULL
                             NULL
14
15
                 NULL
                             NULL
  _{\Box}/^*6) Parameter- Find missing values for beds with and without patients,
                                                                                                                            USE [Hospital]
    and for patients with and without bed*/
   ALTER PROC BedPatients PARA @PatientFirstName varchar(25), @BedNumber int
    AS
                                                                                                                           □DECLARE @return_value int
  BEGIN
  SELECT
                                                                                                                                    @return_value = [dbo].[BedPatients_PARA]
        P.firstName AS 'Patient_Name',
                                                                                                                                     @PatientFirstName =
        B.bedNo AS 'Bed_Number',
                                                                                                                                    @BedNumber = NULL
        B.type AS 'Bed_Type'
                                                                                                                            SELECT 'Return Value' = @return_value
    FROM
        Patient AS P
    FULL JOIN
        Bed AS B ON P.bedNo=B.bedNo
                                                                                                                       100 % -
                                                                                                                       ■ Results ■ Messages
        (P.firstName LIKE @PatientFirstName + '%') AND
                                                                                                                           Patient_Name Bed_Number Bed_Type
John NULL NULL
             (@BedNumber IS NULL AND B.bedNo IS NULL) -- Check for NULL @BedNumber and NULL bedNo
                                                                                                                            Alice
                                                                                                                                        NULL
                                                                                                                                                   NULL
                                                                                                                            Robert
                                                                                                                                        NULL
                                                                                                                                                   NULL
             (B.bedNo = @BedNumber) -- Check for non-NULL @BedNumber
                                                                                                                            Samantha
                                                                                                                                        NULL
                                                                                                                                                   NULL
                                                                                                                            William
                                                                                                                                        NULL
                                                                                                                                                   NULL
    FND:
                                                                                                                           --Logic Check
                                                                                                                           SELECT *
                                                                                                                           FROM BedPatients_VW
```

WHERE

100 % ▼ ◀ ■ ■ Results Messages Patient_Name

John

Alice

Robert

William

Samantha

1

2

3

4

5

Bed Number IS NULL

NULL

NULL

NULL

NULL

NULL

Bed_Number

Bed_Type

NULL

NULL

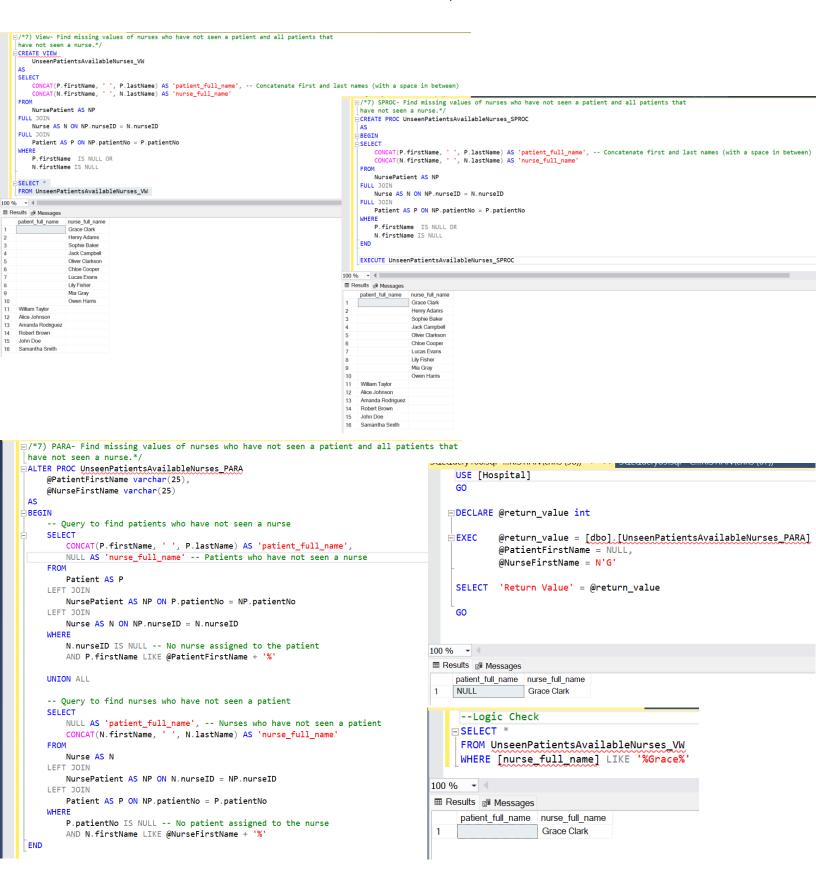
NULL

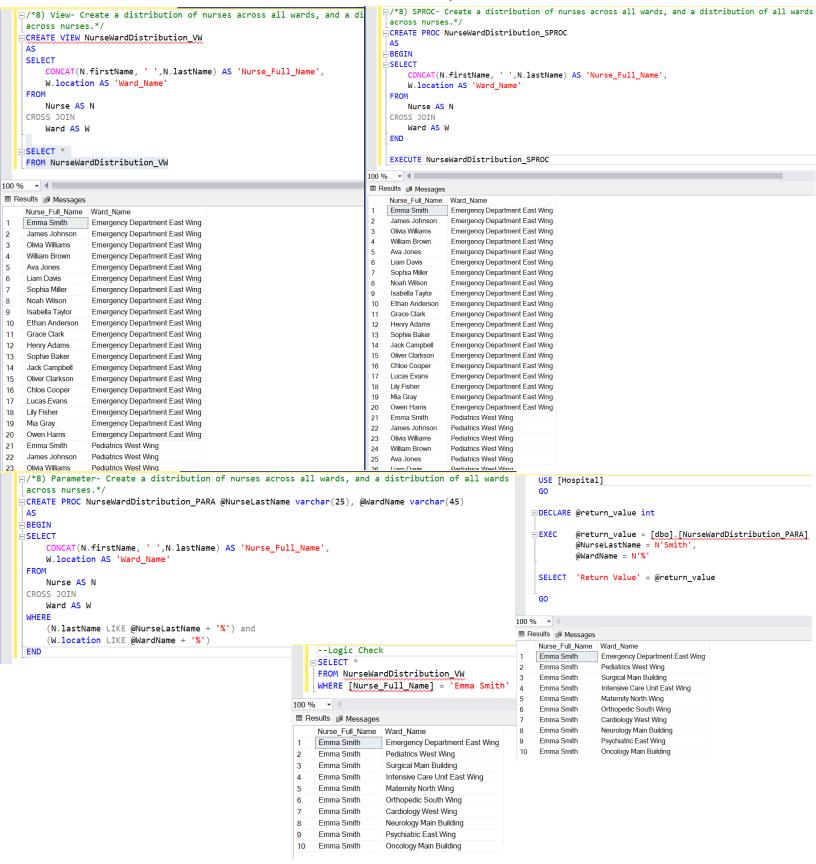
NULL

NULL

8

9





```
_{\Box}/^{*}9) View- Create a distribution of beds across all wards, and a distribution of all wards
    across beds.*/
    CREATE VIEW BedWardDistribution_VW
     SELECT
        CONCAT (B.bedNo, '', B.type, '', B.size) AS 'bed number type size', W.location AS 'ward name'
                                                                                  _{oxdots}/^*9) SPROC- Create a distribution of beds across all wards, and a distribution of all wards
        Bed as B
     CROSS JOIN
                                                                                   across heds.*/
                                                                                  CREATE PROC BedWardDistribution SPROC
         Ward AS W
                                                                                   BEGIN
    SELECT *
   FROM BedWardDistribution_VW
                                                                                  SELECT
                                                                                        CONCAT (B.bedNo, ' ', B.type, ' ', B.size) AS 'bed_number_type_size', W.location AS 'ward_name'
100 % - 4
                                                                                   FROM
Bed as B
     bed_number_type_size ward_name
                                                                                    CROSS JOIN
    1 manual L
                        Emergency Department East Wing
                                                                                        Ward AS W
     1 manual I
                        Pediatrics West Wing
                                                                                   END
    1 manual L
                        Surgical Main Building
                        Intensive Care Unit East Wing
     1 manual L
                                                                                   EXECUTE BedWardDistribution_SPROC
                        Maternity North Wing
     1 manual L
     1 manual L
                        Orthopedic South Wing
                                                                              100 % - 4
     1 manual L
                        Cardiology West Wing
                        Neurology Main Building
                                                                              ■ Results ■ Messages
     1 manual L
                        Psychiatric East Wing
     1 manual L
                                                                                   bed_number_type_size ward_name
    1 manual L
                        Oncology Main Building
                                                                                   1 manual L
                                                                                                        Emergency Department East Wing
    2 manual I
                        Emergency Department East Wing
                                                                                    1 manual I
                                                                                                        Pediatrics West Wing
    2 manual I
                        Pediatrics West Wing
                                                                                                        Surgical Main Building
                                                                                    1 manual I
13
    2 manual I
                        Surgical Main Building
                                                                                    1 manual I
                                                                                                        Intensive Care Unit East Wing
                        Intensive Care Unit East Wing
    2 manual I
                                                                                    1 manual L
                                                                                                        Maternity North Wing
                        Maternity North Wing
15
    2 manual L
                                                                                    1 manual L
                                                                                                        Orthopedic South Wing
                        Orthopedic South Wing
16
    2 manual L
                                                                                                        Cardiology West Wing
                                                                                    1 manual L
                                                                                    1 manual L
                                                                                                        Neurology Main Building
                                                                                    1 manual L
                                                                                                        Psychiatric East Wing
                                                                                   1 manual L
                                                                                                        Oncology Main Building
                                                                               10
                                                                               11
                                                                                   2 manual L
                                                                                                        Emergency Department East Wing
                                                                               12
                                                                                   2 manual I
                                                                                                        Pediatrics West Wing
                                                                                                        Surgical Main Building
                                                                               13
                                                                                   2 manual I
                                                                                                        Intensive Care Unit East Wing
                                                                               14
                                                                                   2 manual I
                                                                                   2 manual L
                                                                                                        Maternity North Wing
                                                                                    2 manual I
                                                                                                        Orthonedic South Wind
   _{oxdot}/^*9) Parameter- Create a distribution of beds across all wards, and a distribution of all wards
                                                                                                                                     USE [Hospital]
     CREATE PROC BedWardDistribution_PARA @BedSize char(2), @WardName varchar(35)
                                                                                                                                   □DECLARE @return value int
    BEGIN
    SELECT
                                                                                                                                    EXEC
                                                                                                                                               @return_value = [dbo].[BedWardDistribution_PARA]
          CONCAT (B.bedNo, ' ', B.type, ' ', B.size) AS 'bed_number_type_size', W.location AS 'ward_name'
                                                                                                                                               @BedSize = N'L',
         Bed as B
                                                                                                                                               @WardName = N'Emergency'
     CROSS JOIN
         Ward AS W
                                                                                                                                     SELECT 'Return Value' = @return_value
         B.size=@BedSize and
         (W.location LIKE @WardName + '%')
     FND
                                                                                                                               100 % -
                                                                                                                                --Logic Check
                                                                                                                                     bed_number_type_size
                                                                                                                                                         ward name
                                                 □SELECT *
                                                                                                                                                         Emergency Department East Wing
                                                                                                                                     1 manual L
                                                                                                                                                          Emergency Department East Wing
                                                   FROM BedWardDistribution_VW
                                                                                                                                     2 manual I
                                                                                                                                     4 electric I
                                                                                                                                                          Emergency Department East Wing
                                                   WHERE [Ward_Name] = 'Emergency Department East Wing'
                                                                                                                                     6 manual I
                                                                                                                                                          Emergency Department East Wing
                                                                                                                                     7 manual L
                                                                                                                                                          Emergency Department East Wing
                                             100 % -
                                                                                                                                     9 manual L
                                                                                                                                                          Emergency Department East Wing
                                             ■ Results ■ Messages
                                                   bed_number_type_size ward_name
                                                   1 manual L
                                                                           Emergency Department East Wing
                                              2
                                                   2 manual I
                                                                           Emergency Department East Wing
                                                    3 manual S
                                                                           Emergency Department East Wing
                                              3
                                                    4 electric I
                                                                           Emergency Department East Wing
                                                                           Emergency Department East Wing
                                             5
                                                   5 manual XI
                                                    6 manual L
                                                                           Emergency Department East Wing
                                                                           Emergency Department East Wing
                                                    7 manual I
                                              7
                                                    8 electric XL
                                                                           Emergency Department East Wing
                                              8
                                                                           Emergency Department East Wing
                                              9
                                                   9 manual I
                                                    10 manual XL
                                                                           Emergency Department East Wing
                                              10
```