DIT Databases Assignment

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Group C Nursing Home

\*Note about sql – Somehow a misplaced semi-colon and an unclosed statement turned up towards the end in the sql I submitted. Because of this, Oracle will give out errors when running the end of the sql. These will be fixed by adding a semi-colon at line 476 and removing the semi-colon at line 509

Entity Choice

Key Entities

* Patient
* This is one of the more important entity’s as it has a foreign key relationship with many other entities in the database and so is used to help identify these entities.
* Chart
* I came to the conclusion that a chart entity would be the best way to hold information about daily checkups with the patients.
* Room
* A room entity with all information pertaining to the rooms and what they contain.
* Booking
* All of the general data gets put in here such as arrival and departure date, whether the patient has arrived or not etc. It’s a very important entity as it has relationships with 5 other entities in the database.
* Invoice
* Relies heavily on Booking, details of the patient’s stay such as the bill and whether or not they’ve paid yet
* Food
* This entity contains a list of all foods in the nursing home with identifiers for each
* FoodAllowedRestricted
* To get around the issue of certain patient’s requirements of or allergies to certain foods, a separate entity which food has a one to many relationship with was used. This way, every patient can be checked individually against their compatibility with every food in the food entity.
* TreatmentType
* This entity contains a list of all treatments in the nursing home with identifiers for each
* SpecialTreatment
* Again like FoofAllowedRestricted, to get around the issue of certain patient’s requirements of certain treatments, a separate entity which TreatmentmentType has a one to many relationship with was used. This way, every patient can be checked individually against their need with every treatment in the TreatmentType entity.

Datatype Choice

For identifiers I used NUMBER(6) allowing for upto 999999 individual id’s.

For Booleans I used CHAR(1) with a default value of ‘N’ and a requirement that the value be either ‘Y’ or ‘N’

For dates I used the DATE datatype

For names I used VARCHAR2(11)

For money I used Number(5,2) allowing for transactions up to 999,99.

For anything requiring sentences, such as description, I used VARCHAR2().

Relationship Choice

* Patient has a one to many relationship with Chart – each Patient can belong to many Charts
* Patient has a one to many relationship with Booking – each Patient can belong to many Bookings
* Booking has a one to zero relationship with Reservation – each Booking can belong to one Reservation
* Booking has a one to one relationship with Room – each Booking can belong to one room
* Booking has a one to many relationship with SpecialTreatment – each Booking can belong to many SpecialTreatments
* Booking has a one to many relationship with FoodAllowed\_Restricted – each Booking can belong to many FoodAllowed\_Restricted
* TreatmentType has a one to many relationship with SpecialTreatment – each TreatmentType can belong to many SpecialTreatments
* Food has a one to many relationship with FoodAllowed\_Restricted – each Food can belong to many FoodAllowed\_Restricteds

Data

Output Of Create Statements

table SPECIALTREATMENT dropped.

table TREATMENTTYPE dropped.

table FOODALLOWED\_RESTRICTED dropped.

table FOOD dropped.

table INVOICE dropped.

table BOOKING dropped.

table ROOM dropped.

table CHART dropped.

table PATIENT dropped.

table PATIENT created.

table CHART created.

table ROOM created.

table BOOKING created.

table INVOICE created.

table FOOD created.

table FOODALLOWED\_RESTRICTED created.

table TREATMENTTYPE created.

table SPECIALTREATMENT created.

Output Of Select \* After Inserts

To generate the output I spooled all of the output to a txt file.

> select \* from Patient

PATIENTID PATIENTNAME DATEOFBIRTH REASONOFSTAY HOMEADDRESS NEXTOFKIN

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1 Michael 01-JUN-43 Chronic Back Pain Kinsale, Cork Mary

2 Mary 01-JAN-37 Chest Infection Blackrock, Dublin Mark

3 Jack 06-DEC-40 Dementia Salthill, Galway Tony

4 Joan 12-SEP-48 Pneumonia Greystones, Wicklow Andrew

5 Brian 22-AUG-33 Heart Attack Shankill, Dublin Terry

6 Alex 16-OCT-43 Stroke Rathfarnham, Dublin Joan

7 Rita 11-JUN-93 Brain Tumour Clontarf, Dublin Terry

8 Patricia 16-NOV-46 Dementia Bray, Wicklow Vivienne

9 Eddie 08-MAR-40 Lung Cancer Clondalkin, Dublin Lisa

10 Theresa 18-DEC-39 Dementia Dalkey, Dublin Anthony

10 rows selected

> select \* from Chart

PATIENTID DATEOFCHECK TIMEOFCHECK DAILYCHECK

---------- ----------- ----------- ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1 01-DEC-14 12:30 No issues with this patient this morning

2 01-DEC-14 12:35 Patient had trouble breathing this morning and so had to be put onto an oxygen machine

3 01-DEC-14 12:40 Patient attempted to leave the premises this morning but was quickly escorted to a secured room by staff

4 01-DEC-14 12:45 No issues with this patient this morning

5 01-DEC-14 12:50 No issues with this patient this morning

6 01-DEC-14 12:55 Patient was very unresponsive this morning, they are still in recovery

7 01-DEC-14 13:00 Patient complained of pain this morning, was treated with painkillers

8 01-DEC-14 13:05 No issues with this patient this morning

9 01-DEC-14 13:10 No issues with this patient this morning

10 01-DEC-14 13:15 No issues with this patient this morning

10 rows selected

> select \* from Booking

PATIENTID RESERVATIONNUMBER ROOMNUMBER PATIENTARRIVED BOOKEDDATE CHECKINDATE CHECKOUTDATE

---------- ----------------- ---------- -------------- ---------- ----------- ------------

1 1001 101 Y 01-NOV-14 01-DEC-14 20-DEC-14

2 1002 103 Y 05-NOV-14 01-DEC-14 15-DEC-14

3 1003 102 Y 10-NOV-14 01-DEC-14 23-DEC-14

4 1004 201 Y 08-NOV-14 01-DEC-14 14-DEC-14

5 1005 202 Y 09-NOV-14 01-DEC-14 30-DEC-14

6 1006 203 Y 11-NOV-14 01-DEC-14 05-JAN-15

7 1007 301 Y 01-NOV-14 01-DEC-14 28-DEC-14

8 1008 104 Y 17-NOV-14 01-DEC-14 22-JAN-15

9 1009 302 Y 22-NOV-14 01-DEC-14 18-DEC-14

10 1010 105 Y 13-NOV-14 01-DEC-14 11-JAN-15

10 rows selected

> select \* from Room

ROOMNUMBER ROOMSIZE CCTVMONITORED FLOOR BEDTYPE MONITORED

---------- ----------- ------------- ---------- ----------- ---------

101 Small Y 1 Orthapedic Y

102 Small Y 1 Standard Y

103 Large N 1 Adjustable N

104 Small Y 1 Orthapedic Y

105 Small Y 1 Standard Y

201 Large N 2 Adjustable N

202 Small N 2 Orthapedic N

203 Large N 2 Standard N

301 Small N 3 Orthapedic N

302 Large N 3 Standard N

10 rows selected

> select \* from Invoice

INVOICENUMBER PATIENTID RESERVATIONNUMBER BILL DEPARTUREDATE PAYMENT

------------- ---------- ----------------- ---------- ------------- -------

1001 1 1001 850.5 20-DEC-14 N

1002 2 1002 800.5 15-DEC-14 N

1003 3 1003 880.5 23-DEC-14 N

1004 4 1004 850.5 14-DEC-14 N

1005 5 1005 850.5 30-DEC-14 N

1006 6 1006 900.5 05-JAN-15 N

1007 7 1007 650.5 28-DEC-14 N

1008 8 1008 940.5 22-JAN-15 N

1009 9 1009 850.5 18-DEC-14 N

1010 10 1010 900.5 11-JAN-15 N

10 rows selected

> select \* from SpecialTreatment

PATIENTID RESERVATIONNUMBER TREATMENTCODE FREQUENCYOFTREATMENT EQUIPMENTREQUIRED SPECIALCASES

---------- ----------------- ------------- -------------------- ----------------- -------------------------------

1 1001 1 Never N None

1 1001 2 Daily N None

1 1001 3 Weekly Y None

1 1001 4 Never N None

1 1001 5 Never Y None

1 1001 6 Never N None

1 1001 7 Never Y None

1 1001 8 Never Y None

1 1001 9 Daily Y None

1 1001 10 Never N None

2 1002 1 Daily N None

2 1002 2 Never N None

2 1002 3 Never Y None

2 1002 4 Never N None

2 1002 5 Daily Y None

2 1002 6 Never N None

2 1002 7 Never Y None

2 1002 8 Never Y None

2 1002 9 Never Y None

2 1002 10 Never N None

3 1003 1 Never N None

3 1003 2 Never N None

3 1003 3 Weekly Y None

3 1003 4 Never N None

3 1003 5 Weekly Y None

3 1003 6 Never N None

3 1003 7 Daily Y None

3 1003 8 Never Y None

3 1003 9 Never Y None

3 1003 10 Never N None

4 1004 1 Daily N None

4 1004 2 Never N None

4 1004 3 Never Y None

4 1004 4 Weekly N None

4 1004 5 Never Y None

4 1004 6 Never N None

4 1004 7 Never Y None

4 1004 8 Daily Y None

4 1004 9 Daily Y None

4 1004 10 Never N None

5 1005 1 Never N None

5 1005 2 Never N None

5 1005 3 Never Y None

5 1005 4 Never N None

5 1005 5 Never Y None

5 1005 6 Never N None

5 1005 7 Never Y None

5 1005 8 Never Y None

5 1005 9 Daily Y None

5 1005 10 Daily N None

6 1006 1 Never N None

6 1006 2 Daily N None

6 1006 3 Never Y None

6 1006 4 Never N None

6 1006 5 Never Y None

6 1006 6 Weekly N None

6 1006 7 Never Y None

6 1006 8 Never Y None

6 1006 9 Weekly Y None

6 1006 10 Never N None

7 1007 1 Daily N None

7 1007 2 Never N None

7 1007 3 Daily Y None

7 1007 4 Weekly N None

7 1007 5 Never Y None

7 1007 6 Never N None

7 1007 7 Never Y None

7 1007 8 Daily Y None

7 1007 9 Daily Y None

7 1007 10 Never N None

8 1008 1 Never N None

8 1008 2 Never N None

8 1008 3 Never Y None

8 1008 4 Never N None

8 1008 5 Daily Y None

8 1008 6 Never N None

8 1008 7 Weekly Y None

8 1008 8 Never Y None

8 1008 9 Daily Y None

8 1008 10 Never N None

9 1009 1 Never N None

9 1009 2 Daily N None

9 1009 3 Weekly Y None

9 1009 4 Never N None

9 1009 5 Never Y None

9 1009 6 Never N None

9 1009 7 Never Y None

9 1009 8 Never Y None

9 1009 9 Daily Y None

9 1009 10 Never N None

10 1010 1 Never N None

10 1010 2 Daily N None

10 1010 3 Weekly Y None

10 1010 4 Never N None

10 1010 5 Never Y None

10 1010 6 Never N None

10 1010 7 Never Y None

10 1010 8 Never Y None

10 1010 9 Daily Y None

10 1010 10 Never N None

100 rows selected

> select \* from TreatmentType

TREATMENTCODE TREATMENT

------------- -------------------------------

1 Physiotherapy

2 Dressing Change

3 Hospital Visit

4 Doctor Visit

5 Drug Treatment

6 Therapy

7 Injection

8 Insulin Boost

9 Oxygen Machine

10 Optician Visit

10 rows selected

> select \* from FOODALLOWED\_RESTRICTED

PATIENTID RESERVATIONNUMBER FOODID RECOMENDEDCALORIEINTAKE ALLOWED RESTRICTED

---------- ----------------- ---------- ----------------------- ------- ----------

1 1001 1 0 N Y

1 1001 2 0 N Y

1 1001 3 400 Y N

1 1001 4 0 N Y

1 1001 5 500 Y N

1 1001 6 500 Y N

1 1001 7 300 Y N

1 1001 8 400 Y N

1 1001 9 200 Y N

1 1001 10 150 Y N

2 1002 1 200 Y N

2 1002 2 200 Y N

2 1002 3 300 Y N

2 1002 4 100 Y N

2 1002 5 500 Y N

2 1002 6 400 Y N

2 1002 7 0 N Y

2 1002 8 200 Y N

2 1002 9 100 Y N

2 1002 10 300 Y N

3 1003 1 200 Y N

3 1003 2 200 Y N

3 1003 3 300 Y N

3 1003 4 100 Y N

3 1003 5 500 Y N

3 1003 6 400 Y N

3 1003 7 50 Y N

3 1003 8 200 Y N

3 1003 9 100 Y N

3 1003 10 300 Y N

4 1004 1 200 Y N

4 1004 2 200 Y N

4 1004 3 300 Y N

4 1004 4 100 Y N

4 1004 5 0 N Y

4 1004 6 0 N Y

4 1004 7 300 Y Y

4 1004 8 200 Y N

4 1004 9 100 Y N

4 1004 10 500 Y N

5 1005 1 200 Y N

5 1005 2 200 Y N

5 1005 3 300 Y N

5 1005 4 100 Y N

5 1005 5 500 Y N

5 1005 6 400 Y N

5 1005 7 50 Y N

5 1005 8 200 Y N

5 1005 9 100 Y N

5 1005 10 300 Y N

6 1006 1 200 Y N

6 1006 2 200 Y N

6 1006 3 300 Y N

6 1006 4 100 Y N

6 1006 5 500 Y N

6 1006 6 400 Y N

6 1006 7 50 Y N

6 1006 8 200 Y N

6 1006 9 100 Y N

6 1006 10 300 Y N

7 1007 1 200 Y N

7 1007 2 200 Y N

7 1007 3 300 Y N

7 1007 4 100 Y N

7 1007 5 500 Y N

7 1007 6 400 Y N

7 1007 7 50 Y N

7 1007 8 200 Y N

7 1007 9 100 Y N

7 1007 10 300 Y N

8 1008 1 200 Y N

8 1008 2 200 Y N

8 1008 3 300 Y N

8 1008 4 100 Y N

8 1008 5 500 Y N

8 1008 6 400 Y N

8 1008 7 50 Y N

8 1008 8 200 Y N

8 1008 9 100 Y N

8 1008 10 300 Y N

9 1009 1 200 Y N

9 1009 2 200 Y N

9 1009 3 300 Y N

9 1009 4 100 Y N

9 1009 5 500 Y N

9 1009 6 400 Y N

9 1009 7 50 Y N

9 1009 8 200 Y N

9 1009 9 100 Y N

9 1009 10 300 Y N

10 1010 1 200 Y N

10 1010 2 200 Y N

10 1010 3 300 Y N

10 1010 4 100 Y N

10 1010 5 0 N Y

10 1010 6 0 N Y

10 1010 7 50 Y N

10 1010 8 0 N Y

10 1010 9 0 N Y

10 1010 10 1200 Y N

100 rows selected

> select \* from Food

FOODID DESCRIPTION

---------- -------------------------------

1 Milk

2 Cheese

3 Cereal

4 Yoghourt

5 Red Meat

6 Light Meat

7 Nuts

8 Fruit

9 Sugar

10 Vegetables

10 rows selected

Queries

* For my Single Row FUNCTION query, I joined the name of each patient followed by their next of kin provided they are below row 5 in the Patient table
* For my Aggregate Function query, I counted all Patients in the Patient table
* For my Inner Join On two tables query I joined Patient and Booking tables on PatientId
* For my Inner Join On three tables query, I joined Patient, Booking and Chart tables on PatientId
* For my Left Outer Join query, I Joined Booking and Patient tables on PatientId
* For my Right Outer Join query, I joined Booking and Invoice tables on ReservationNumber

For the output I again spooled to a text file

> -- Single Row FUNCTION to join the name of each patient followed by their next of kin provided they are below row 5 in the Patient table

> SELECT CONCAT (PatientName, NextOfKin)

FROM Patient

WHERE rownum < 5

CONCAT(PATIENTNAME,NEXTOFKIN)

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MichaelMary

MaryMark

JackTony

JoanAndrew

> -- Aggregate Function to counnt all Patients in the Patient table

> SELECT COUNT(\*) "Total Patients In Database: "

FROM Patient

Total Patients In Database:

----------------------------

10

> -- Inner Join On two tables, joins Patient and Booking tables on PatientId

> SELECT \*

FROM Patient

INNER JOIN Booking

ON Patient.PatientId = Booking.PatientId

PATIENTID PATIENTNAME DATEOFBIRTH REASONOFSTAY HOMEADDRESS NEXTOFKIN PATIENTID RESERVATIONNUMBER ROOMNUMBER PATIENTARRIVED BOOKEDDATE CHECKINDATE CHECKOUTDATE

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1 Michael 01-JUN-43 Chronic Back Pain Kinsale, Cork Mary 1 1001 101 Y 01-NOV-14 01-DEC-14 20-DEC-14

2 Mary 01-JAN-37 Chest Infection Blackrock, Dublin Mark 2 1002 103 Y 05-NOV-14 01-DEC-14 15-DEC-14

3 Jack 06-DEC-40 Dementia Salthill, Galway Tony 3 1003 102 Y 10-NOV-14 01-DEC-14 23-DEC-14

4 Joan 12-SEP-48 Pneumonia Greystones, Wicklow Andrew 4 1004 201 Y 08-NOV-14 01-DEC-14 14-DEC-14

5 Brian 22-AUG-33 Heart Attack Shankill, Dublin Terry 5 1005 202 Y 09-NOV-14 01-DEC-14 30-DEC-14

6 Alex 16-OCT-43 Stroke Rathfarnham, Dublin Joan 6 1006 203 Y 11-NOV-14 01-DEC-14 05-JAN-15

7 Rita 11-JUN-93 Brain Tumour Clontarf, Dublin Terry 7 1007 301 Y 01-NOV-14 01-DEC-14 28-DEC-14

8 Patricia 16-NOV-46 Dementia Bray, Wicklow Vivienne 8 1008 104 Y 17-NOV-14 01-DEC-14 22-JAN-15

9 Eddie 08-MAR-40 Lung Cancer Clondalkin, Dublin Lisa 9 1009 302 Y 22-NOV-14 01-DEC-14 18-DEC-14

10 Theresa 18-DEC-39 Dementia Dalkey, Dublin Anthony 10 1010 105 Y 13-NOV-14 01-DEC-14 11-JAN-15

10 rows selected

> -- Inner Join On three tables, joins Patient, Booking and Chart tables on PatientId

> SELECT \*

FROM Patient

INNER JOIN

Booking

ON Patient.PatientId = Booking.PatientId

INNER JOIN

Chart

On Booking.PatientId = Chart.PatientId

PATIENTID PATIENTNAME DATEOFBIRTH REASONOFSTAY HOMEADDRESS NEXTOFKIN PATIENTID RESERVATIONNUMBER ROOMNUMBER PATIENTARRIVED BOOKEDDATE CHECKINDATE CHECKOUTDATE PATIENTID DATEOFCHECK TIMEOFCHECK DAILYCHECK

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1 Michael 01-JUN-43 Chronic Back Pain Kinsale, Cork Mary 1 1001 101 Y 01-NOV-14 01-DEC-14 20-DEC-14 1 01-DEC-14 12:30 No issues with this patient this morning

2 Mary 01-JAN-37 Chest Infection Blackrock, Dublin Mark 2 1002 103 Y 05-NOV-14 01-DEC-14 15-DEC-14 2 01-DEC-14 12:35 Patient had trouble breathing this morning and so had to be put onto an oxygen machine

3 Jack 06-DEC-40 Dementia Salthill, Galway Tony 3 1003 102 Y 10-NOV-14 01-DEC-14 23-DEC-14 3 01-DEC-14 12:40 Patient attempted to leave the premises this morning but was quickly escorted to a secured room by staff

4 Joan 12-SEP-48 Pneumonia Greystones, Wicklow Andrew 4 1004 201 Y 08-NOV-14 01-DEC-14 14-DEC-14 4 01-DEC-14 12:45 No issues with this patient this morning

5 Brian 22-AUG-33 Heart Attack Shankill, Dublin Terry 5 1005 202 Y 09-NOV-14 01-DEC-14 30-DEC-14 5 01-DEC-14 12:50 No issues with this patient this morning

6 Alex 16-OCT-43 Stroke Rathfarnham, Dublin Joan 6 1006 203 Y 11-NOV-14 01-DEC-14 05-JAN-15 6 01-DEC-14 12:55 Patient was very unresponsive this morning, they are still in recovery

7 Rita 11-JUN-93 Brain Tumour Clontarf, Dublin Terry 7 1007 301 Y 01-NOV-14 01-DEC-14 28-DEC-14 7 01-DEC-14 13:00 Patient complained of pain this morning, was treated with painkillers

8 Patricia 16-NOV-46 Dementia Bray, Wicklow Vivienne 8 1008 104 Y 17-NOV-14 01-DEC-14 22-JAN-15 8 01-DEC-14 13:05 No issues with this patient this morning

9 Eddie 08-MAR-40 Lung Cancer Clondalkin, Dublin Lisa 9 1009 302 Y 22-NOV-14 01-DEC-14 18-DEC-14 9 01-DEC-14 13:10 No issues with this patient this morning

10 Theresa 18-DEC-39 Dementia Dalkey, Dublin Anthony 10 1010 105 Y 13-NOV-14 01-DEC-14 11-JAN-15 10 01-DEC-14 13:15 No issues with this patient this morning

10 rows selected

> -- Left Outer Join, Joins Booking and Patient tables on PatientId

> select

PatientName,

RoomNumber

from

Booking b

left outer join

Patient p

on

b.PatientId = p.PatientId

PATIENTNAME ROOMNUMBER

--------------------- ----------

Michael 101

Mary 103

Jack 102

Joan 201

Brian 202

Alex 203

Rita 301

Patricia 104

Eddie 302

Theresa 105

10 rows selected

> -- Right Outer Join, joins Booking and Invoice tables on ReservationNumber

> select

\*

from

Booking

right outer join

Invoice

on

Booking.ReservationNumber = Invoice.ReservationNumber

PATIENTID RESERVATIONNUMBER ROOMNUMBER PATIENTARRIVED BOOKEDDATE CHECKINDATE CHECKOUTDATE INVOICENUMBER PATIENTID RESERVATIONNUMBER BILL DEPARTUREDATE PAYMENT

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1 1001 101 Y 01-NOV-14 01-DEC-14 20-DEC-14 1001 1 1001 850.5 20-DEC-14 N

2 1002 103 Y 05-NOV-14 01-DEC-14 15-DEC-14 1002 2 1002 800.5 15-DEC-14 N

3 1003 102 Y 10-NOV-14 01-DEC-14 23-DEC-14 1003 3 1003 880.5 23-DEC-14 N

4 1004 201 Y 08-NOV-14 01-DEC-14 14-DEC-14 1004 4 1004 850.5 14-DEC-14 N

5 1005 202 Y 09-NOV-14 01-DEC-14 30-DEC-14 1005 5 1005 850.5 30-DEC-14 N

6 1006 203 Y 11-NOV-14 01-DEC-14 05-JAN-15 1006 6 1006 900.5 05-JAN-15 N

7 1007 301 Y 01-NOV-14 01-DEC-14 28-DEC-14 1007 7 1007 650.5 28-DEC-14 N

8 1008 104 Y 17-NOV-14 01-DEC-14 22-JAN-15 1008 8 1008 940.5 22-JAN-15 N

9 1009 302 Y 22-NOV-14 01-DEC-14 18-DEC-14 1009 9 1009 850.5 18-DEC-14 N

10 1010 105 Y 13-NOV-14 01-DEC-14 11-JAN-15 1010 10 1010 900.5 11-JAN-15 N

10 rows selected

Alterations And Updates

* For Update Data, I changed patient 1's name in Patient table from John to Michael
* For Adding a Colum, I altered Patient table to add a Previous History Of Mental Health Problems ‘MentalHealthHistory’ column
* For Adding a Value Constraint, I changed MentalHealthHistory column in Patient table to have a value constraint that checks to make sure the value can only be 'Y' or 'N'
* For modifying a column, I Modified PatientName column in Patient table to allow for up to 21 characters
* For Dropping a column, I dropped the MentalHealthHistory column in Patient table
* For Dropping a constraint, I dropped Patient\_Booking\_FK foreign key constraint in Booking table

For the output I again spooled to a text file

> UPDATE Patient

SET PatientName = 'Michael'

WHERE Patient.PatientId = 1

1 rows updated.

> Select PatientName from Patient where PatientId = 1

PATIENTNAME

-----------

Michael

> alter table

Patient

add

(

MentalHealthHistory CHAR(1) DEFAULT 'N'

)

table PATIENT altered.

> describe \* from Patient

describe \* from Patient

Name Null Type

------------------- -------- ------------

PATIENTID NOT NULL NUMBER(6)

PATIENTNAME VARCHAR2(11)

DATEOFBIRTH DATE

REASONOFSTAY VARCHAR2(31)

HOMEADDRESS VARCHAR2(31)

NEXTOFKIN VARCHAR2(11)

MENTALHEALTHHISTORY CHAR(1)

> alter table

Patient

add constraint

check\_MentalHealthHistory

CHECK

(

MentalHealthHistory = 'Y' OR MentalHealthHistory = 'N'

)

table PATIENT altered.

> ALTER TABLE Patient

MODIFY PatientName varchar2(21) not null

table PATIENT altered.

> -- Alter table Patient, drop the MentalHealthHistory column

> alter table

Patient

drop column

MentalHealthHistory

table PATIENT altered.

> describe \* from Patient

describe \* from Patient

Name Null Type

------------ -------- ------------

PATIENTID NOT NULL NUMBER(6)

PATIENTNAME NOT NULL VARCHAR2(21)

DATEOFBIRTH DATE

REASONOFSTAY VARCHAR2(31)

HOMEADDRESS VARCHAR2(31)

NEXTOFKIN VARCHAR2(11)

> -- Alter table Booking, drop Patient\_Booking\_FK foreign key constraint

> ALTER TABLE Booking

DROP CONSTRAINT Patient\_Booking\_FK

table BOOKING altered.

> describe \* from Booking

describe \* from Booking

Name Null Type

----------------- -------- ---------

PATIENTID NOT NULL NUMBER(6)

RESERVATIONNUMBER NOT NULL NUMBER(6)

ROOMNUMBER NUMBER(3)

PATIENTARRIVED NOT NULL CHAR(1)

BOOKEDDATE DATE

CHECKINDATE DATE

CHECKOUTDATE DATE