

## Marked by Rodion Sharlov

```
SQL> ===== START RUN =====
SQL> -- Running mns_schema_insert.sql
SQL> set echo off
SQL> ----- Task 1 Create Tables -----
SQL> @T1-mns-schema.sql
SQL> --*****PLEASE ENTER YOUR DETAILS BELOW*****
SQL> --T1-mns-schema.sql
SQL>
SQL> --Student ID: 34194037
SQL> --Student Name: Sachin Shivaramaiah
SQL> --Unit Code: FIT9132
SQL> --Applied Class No: 02_OnCampus
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> -- Task 1 Add Create table statements for the white TABLES below
SQL> -- Ensure all column comments, and constraints (other than FK's)
SQL> -- are included. FK constraints are to be added at the end of this script
SQL>
SQL> -- TABLE: APPOINTMENT
SQL> CREATE TABLE appointment (
2      appt_no          NUMBER(7) NOT NULL,
3      appt_datetime    DATE NOT NULL,
4      appt_roomno      NUMBER(2) NOT NULL,
5      appt_length      CHAR(1) NOT NULL,
6      patient_no       NUMBER(4) NOT NULL,
7      provider_code    CHAR(6) NOT NULL,
8      nurse_no         NUMBER(3) NOT NULL,
9      appt_prior_apptno NUMBER(7),
10     CONSTRAINT appt_no_pk PRIMARY KEY ( appt_no )
11 );

Table APPOINTMENT created.

SQL>
SQL> -- Alter table details for appointment starts
SQL> ALTER TABLE appointment      Each candidate key must have their own unique key
2      ADD CONSTRAINT appointment_uq UNIQUE ( appt_datetime,
3
4      appt_roomno,
5      patient_no,
6      provider_code,
```

```
6          -- appt_prior_apptno );
```

Table APPOINTMENT altered.

SQL>

```
SQL> ALTER TABLE appointment
2      ADD CONSTRAINT appt_lenght_chk CHECK ( appt_length IN ( 'S', 'T', 'L' ) );
```

Table APPOINTMENT altered.

SQL> -- Alter table details for appointment ends

SQL>

SQL> -- Comments for appointment starts

```
SQL> COMMENT ON COLUMN appointment.appt_no IS
2      'Appointment identifier(unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN appointment.appt_datetime IS
2      'Appointment date_time (unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN appointment.appt_roomno IS
2      'Appointment room number (unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN appointment.appt_length IS
2      'Lenght of the Appointment Short,Standard,long(S,T,L, Respectively)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN appointment.patient_no IS
2      'Patient Identifier (unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN appointment.provider_code IS
2      'Provider Identifier (unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN appointment.nurse_no IS
2      'Nurse Identifier (unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN appointment.appt_prior_apptno IS
2      'Follow Up Identifier (unique)';
```

Comment created.

SQL> -- Comments for appointment ends

SQL>

SQL> -- TABLE: EMERGENCY\_CONTACT

```
SQL> CREATE TABLE emergency_contact (
2      ec_id      NUMBER(4) NOT NULL,
3      ec_fname  VARCHAR2(30),
4      ec_lname  VARCHAR2(30),
5      ec_phone  CHAR(10) NOT NULL,
6      CONSTRAINT ec_id_pk PRIMARY KEY ( ec_id )
7 );
```

Table EMERGENCY\_CONTACT created.

SQL>

SQL> -- Alter table details for emergency contact starts

SQL>

```
SQL> ALTER TABLE emergency_contact ADD CONSTRAINT ec_phone_uq UNIQUE ( ec_phone );
```

Table EMERGENCY\_CONTACT altered.

SQL>

SQL> -- Alter table details for emergency contact ends

SQL>

SQL> -- Comments for emergency\_contact starts

```
SQL> COMMENT ON COLUMN emergency_contact.ec_id IS
2      'emergency_contact identifier(unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN emergency_contact.ec_fname IS
2      'emergency_contact first Name';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN emergency_contact.ec_lname IS
2      'emergency_contact last Name';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN emergency_contact.ec_phone IS
2      'emergency_contact mobile number(unique)';
```

Comment created.

```
SQL>
SQL> -- Comments for emergency_contact ends
SQL>
SQL> -- TABLE: PATIENT
```

```
SQL> CREATE TABLE patient (
2      patient_no          NUMBER(4) NOT NULL,
3      patient_fname       VARCHAR2(30),
4      patient_lname       VARCHAR2(30),
5      patient_street      VARCHAR2(50) NOT NULL,
6      patient_city        VARCHAR2(20) NOT NULL,
7      patient_state       VARCHAR2(3) NOT NULL,
8      patient_postcode    CHAR(4) NOT NULL,
9      patient_dob         DATE NOT NULL,
10     patient_contactmobile CHAR(10) NOT NULL,
11     patient_contactemail VARCHAR2(25) NOT NULL,
12     ec_id               NUMBER(4) NOT NULL,
13     CONSTRAINT patient_no_pk PRIMARY KEY ( patient_no )
14 );
```

Table PATIENT created.

```
SQL>
SQL> -- Alter table details for patient starts
SQL>
SQL> ALTER TABLE patient
2      ADD CONSTRAINT patient_state_ck CHECK ( patient_state IN ( 'NT', 'QLD', 'NSW', 'ACT'
3      , 'VIC',
4                                     'TAS', 'SA', 'WA' ) );
```

**VIC?**

Table PATIENT altered.

```
SQL>
SQL> -- Alter table details for patient ends
SQL>
SQL> -- Comments for patient starts
SQL> COMMENT ON COLUMN patient.patient_no IS
2      'patient identifier(unique)';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_fname IS
2      'patientt first name';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_lname IS
2      'patient last name';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_street IS
2      'Patient street address';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_city IS
2      'Patient residing city';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_state IS
2      'patient residing state NT,QLD,NSW,ACT,VIC,TAS,SA or WA';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_postcode IS
2      'patient residing post code';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_dob IS
2      'patient date of birth';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_contactmobile IS
2      'patient mobile number';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.patient_contactemail IS
2      'patient email address';
```

Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient.ec_id IS
2      'patient emergency contact identifier';
```

Comment created.

SQL>

```
SQL> -- Comments for patient ends
```

SQL>

```
SQL> -- Add all missing FK Constraints below here
```

```
SQL> ALTER TABLE appointment
2      ADD CONSTRAINT provider_code_fk FOREIGN KEY ( provider_code )
3      REFERENCES provider ( provider_code );
```

Table APPOINTMENT altered.

SQL>

```
SQL> ALTER TABLE appointment
2      ADD CONSTRAINT nurse_no_fk FOREIGN KEY ( nurse_no )
3      REFERENCES nurse ( nurse_no );
```

Table APPOINTMENT altered.

SQL>

```
SQL> ALTER TABLE appointment
2      ADD CONSTRAINT patient_no_fk FOREIGN KEY ( patient_no )
3      REFERENCES patient ( patient_no );
```

Table APPOINTMENT altered.

SQL>

```
SQL> ALTER TABLE appointment
2      ADD CONSTRAINT follow_up_fk FOREIGN KEY ( appt_prior_apptno )
3      REFERENCES appointment ( appt_no );
```

Table APPOINTMENT altered.

SQL>

```
SQL> ALTER TABLE patient
```

```

2      ADD CONSTRAINT ec_id_fk FOREIGN KEY ( ec_id )
3      REFERENCES emergency_contact ( ec_id );

```

Table PATIENT altered.

SQL>

SQL> ----- EMERGENCY\_CONTACT -----

SQL> describe EMERGENCY\_CONTACT

Name	Null?	Type
------	-------	------

EC_ID	NOT NULL	NUMBER(4)
EC_FNAME		VARCHAR2(30)
EC_LNAME		VARCHAR2(30)
EC_PHONE	NOT NULL	CHAR(10)

SQL> ----- PATIENT -----

SQL> describe PATIENT

Name	Null?	Type
------	-------	------

PATIENT_NO	NOT NULL	NUMBER(4)
PATIENT_FNAME		VARCHAR2(30)
PATIENT_LNAME		VARCHAR2(30)
PATIENT_STREET	NOT NULL	VARCHAR2(50)
PATIENT_CITY	NOT NULL	VARCHAR2(20)
PATIENT_STATE	NOT NULL	VARCHAR2(3)
PATIENT_POSTCODE	NOT NULL	CHAR(4)
PATIENT_DOB	NOT NULL	DATE
PATIENT_CONTACTMOBILE	NOT NULL	CHAR(10)
PATIENT_CONTACTEMAIL	NOT NULL	VARCHAR2(25)
EC_ID	NOT NULL	NUMBER(4)

SQL> ----- APPOINTMENT -----

SQL> describe APPOINTMENT

Name	Null?	Type
------	-------	------

APPT_NO	NOT NULL	NUMBER(7)
APPT_DATETIME	NOT NULL	DATE
APPT_ROOMNO	NOT NULL	NUMBER(2)
APPT_LENGTH	NOT NULL	CHAR(1)
PATIENT_NO	NOT NULL	NUMBER(4)
PROVIDER_CODE	NOT NULL	CHAR(6)
NURSE_NO	NOT NULL	NUMBER(3)
APPT_PRIOR_APPTNO		NUMBER(7)

SQL>

SQL> ----- CONSTRAINTS DECLARED -----

SQL> set echo off

CONSTRAINT_NAME	CONSTRAINT_	TABLE_NAME	SEARCH_CONDITION
-----------------	-------------	------------	------------------

-----			
APPOINTMENT_UQ	Unique	APPOINTMENT	
APPT_NO_PK	Primary Key	APPOINTMENT	
PROVIDER_CODE_FK	Foreign Key	APPOINTMENT	
FOLLOW_UP_FK	Foreign Key	APPOINTMENT	
PATIENT_NO_FK	Foreign Key	APPOINTMENT	
NURSE_NO_FK	Foreign Key	APPOINTMENT	
APPT LENGHT_CHK	Check	APPOINTMENT	appt_length IN ( 'S', 'T', 'L' )
SYS_C0086427	Check	APPOINTMENT	"NURSE_NO" IS NOT NULL
SYS_C0086426	Check	APPOINTMENT	"PROVIDER_CODE" IS NOT NULL
SYS_C0086425	Check	APPOINTMENT	"PATIENT_NO" IS NOT NULL
SYS_C0086424	Check	APPOINTMENT	"APPT_LENGTH" IS NOT NULL
SYS_C0086423	Check	APPOINTMENT	"APPT_ROOMNO" IS NOT NULL
SYS_C0086421	Check	APPOINTMENT	"APPT_NO" IS NOT NULL
SYS_C0086422	Check	APPOINTMENT	"APPT_DATETIME" IS NOT NULL
EC_PHONE_UQ	Unique	EMERGENCY_CONTACT	
EC_ID_PK	Primary Key	EMERGENCY_CONTACT	
SYS_C0086431	Check	EMERGENCY_CONTACT	"EC_ID" IS NOT NULL
SYS_C0086432	Check	EMERGENCY_CONTACT	"EC_PHONE" IS NOT NULL
PATIENT_NO_PK	Primary Key	PATIENT	
EC_ID_FK	Foreign Key	PATIENT	
SYS_C0086441	Check	PATIENT	"PATIENT_CONTACTMOBILE" IS NOT NULL
SYS_C0086442	Check	PATIENT	"PATIENT_CONTACTEMAIL" IS NOT NULL
SYS_C0086443	Check	PATIENT	"EC_ID" IS NOT NULL



PATIENT_STATE_CHK	Check	PATIENT	patient_state IN ( 'NT', 'QLD', 'NSW', 'ACT' , 'VIC',
SYS_C0086440	Check	PATIENT	"PATIENT_DOB" IS NOT NULL
SYS_C0086439	Check	PATIENT	"PATIENT_POSTCODE" IS NOT NULL
SYS_C0086438	Check	PATIENT	"PATIENT_STATE" IS NOT NULL
SYS_C0086437	Check	PATIENT	"PATIENT_CITY" IS NOT NULL
SYS_C0086435	Check	PATIENT	"PATIENT_NO" IS NOT NULL
SYS_C0086436	Check	PATIENT	"PATIENT_STREET" IS NOT NULL

30 rows selected.

Sub-task marked

```
SQL> ----- Task 2 Load Student Data -----
SQL> @T2-mns-insert.sql
SQL> --*****PLEASE ENTER YOUR DETAILS BELOW*****
SQL> --T2-mns-insert.sql
SQL>
SQL> --Student ID:34194037
SQL> --Student Name:Sachin Shivaramaiah
SQL> --Unit Code:FIT9132
SQL> --Applied Class No: 02_OnCampus
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> -----
SQL> --INSERT INTO emergency_contact
SQL> --select * from emergency_contact;
SQL> -----
SQL>
SQL> INSERT INTO emergency_contact VALUES (
2      0001,
3      'Matt',
4      'Damon',
5      '9874563214'
```

```

6 );

1 row inserted.

SQL>
SQL> INSERT INTO emergency_contact VALUES (
2     0002,
3     'Mark',
4     'Welberg',
5     '5789641232'
6 );

1 row inserted.

SQL>
SQL> INSERT INTO emergency_contact VALUES (
2     0003,
3     'Jhon',
4     'Whick',
5     '2587413690'
6 );

1 row inserted.

SQL>
SQL> INSERT INTO emergency_contact VALUES (
2     0004,
3     'Tony',
4     'Stark',
5     '9874566542'
6 );

1 row inserted.

SQL>
SQL> INSERT INTO emergency_contact VALUES (
2     0005,
3     'Puneeth',
4     'Rajkumar',
5     '2587413721'
6 );

1 row inserted.

SQL>
SQL> -----
SQL> --INSERT INTO patient
SQL> --select * from patient;

```

```

SQL> -----
SQL>
SQL> INSERT INTO patient VALUES (
2      71,
3      'Thanos',
4      'Purple',
5      'Stone street',
6      'Melbourne City',
7      'VIC',
8      '3161',
9      TO_DATE('1-Jan-1995', 'dd-Mon-yyyy'),
10     '4568974132',
11     'snap11@gmail.com',
12     0004
13 );

```

1 row inserted.

```

SQL>
SQL> INSERT INTO patient VALUES (
2      72,
3      'Shiva',
4      'Rajkumar',
5      'Bettina street',
6      'Queens City',
7      'QLD',
8      '6161',
9      TO_DATE('2-Feb-1972', 'dd-Mon-yyyy'),
10     '1237898524',
11     'jogi@gmail.com',
12     0005
13 );

```

1 row inserted.

```

SQL>
SQL> INSERT INTO patient VALUES (
2      73,
3      'Rajkumar',
4      'Dodmane',
5      'Arnott street',
6      'Queens City',
7      'QLD',
8      '6162',
9      TO_DATE('1-April-1954', 'dd-Mon-yyyy'),
10     '3571594568',
11     'doctor@gmail.com',
12     0005
13 );

```

```
1 row inserted.
```

```
SQL>
```

```
SQL> INSERT INTO patient VALUES (  
2      74,  
3      'Steve',  
4      'Rogers',  
5      'Glens street',  
6      'South warf City',  
7      'NSW',  
8      '7163',  
9      TO_DATE('2-Mar-1989', 'dd-Mon-yyyy'),  
10     '1579534567',  
11     'shield@gmail.com',  
12     0004  
13 );
```

```
1 row inserted.
```

```
SQL>
```

```
SQL> INSERT INTO patient VALUES (  
2      75,  
3      'Scarlett',  
4      'Jhon',  
5      'Oakliegh street',  
6      'Flinder City',  
7      'NT',  
8      '8163',  
9      TO_DATE('2-Jul-1994', 'dd-Mon-yyyy'),  
10     '1579534565',  
11     'widow@gmail.com',  
12     0001  
13 );
```

```
1 row inserted.
```

```
SQL>
```

```
SQL> INSERT INTO patient VALUES (  
2      76,  
3      'Tom',  
4      'Damon',  
5      'Peter street',  
6      'Bandura City',  
7      'ACT',  
8      '2167',  
9      TO_DATE('12-Aug-2006', 'dd-Mon-yyyy'),  
10     '1579534560',  
11     'TD@gmail.com',
```

```

12      0001
13 );

1 row inserted.

SQL>
SQL> INSERT INTO patient VALUES (
2      77,
3      'Jerry',
4      'Whick',
5      'OT street',
6      'Bendigo City',
7      'TAS',
8      '8167',
9      TO_DATE('2-Aug-2006', 'dd-Mon-yyyy'),
10     '1579534560',
11     'JW@gmail.com',
12     0003
13 );

```

1 row inserted.

```

SQL>
SQL> INSERT INTO patient VALUES (
2      78,
3      'Sara',
4      'Whick',
5      'PT street',
6      'Silk City',
7      'SA',
8      '9164',
9      TO_DATE('2-Aug-2008', 'dd-Mon-yyyy'),
10     '3579534560',
11     'SW@gmail.com',
12     0003
13 );

```

1 row inserted.

```

SQL>
SQL> INSERT INTO patient VALUES (
2      79,
3      'Ben',
4      'Welberg',
5      'Orong street',
6      'Brown City',
7      'WA',
8      '2164',
9      TO_DATE('2-Aug-2008', 'dd-Mon-yyyy'),

```

```

10      '1579534566',
11      'BW@gmail.com',
12      0002
13  );

1 row inserted.

SQL>
SQL> INSERT INTO patient VALUES (
2      80,
3      'Jessica',
4      'Welberg',
5      'Matt street',
6      'Peter City',
7      'NT',
8      '3167',
9      TO_DATE('2-Aug-2010', 'dd-Mon-yyyy'),
10     '1579534556',
11     'JW@gmail.com',
12     0002
13 );

1 row inserted.

SQL>
SQL>
SQL> -----
SQL> --INSERT INTO appointment
SQL> /* update appointment
SQL> set appt_prior_apptno = 32
SQL> where appt_no = 52 ; */
SQL> -----
SQL>
SQL> INSERT INTO appointment VALUES (
2      51,
3      TO_DATE('16-Jul-2023 9:00', 'dd-Mon-yyyy HH24:MI'),
4      2,
5      'S',
6      80,
7      'GEN001',
8      1,
9      NULL
10 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (

```

```
2      52,  
3      TO_DATE('16-Jul-2023 10:00', 'dd-Mon-yyyy HH24:MI'),  
4      1,  
5      'L',  
6      79,  
7      'END001',  
8      2,  
9      NULL  
10 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO appointment VALUES (  
2      53,  
3      TO_DATE('16-Jul-2023 10:00', 'dd-Mon-yyyy HH24:MI'),  
4      3,  
5      'T',  
6      77,  
7      'GEN002',  
8      3,  
9      NULL  
10 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO appointment VALUES (  
2      54,  
3      TO_DATE('16-Jul-2023 11:00', 'dd-Mon-yyyy HH24:MI'),  
4      4,  
5      'S',  
6      76,  
7      'GEN003',  
8      4,  
9      NULL  
10 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO appointment VALUES (  
2      55,  
3      TO_DATE('16-Jul-2023 12:00', 'dd-Mon-yyyy HH24:MI'),  
4      5,  
5      'L',  
6      75,  
7      'ORS001',  
8      5,
```

```

9      NULL
10 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (
2      32,
3      TO_DATE('26-Jul-2023 9:00', 'dd-Mon-yyyy HH24:MI'),
4      1,
5      'T',
6      79,
7      'END001',
8      15,
9      52
10 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (
2      33,
3      TO_DATE('26-Jul-2023 10:00', 'dd-Mon-yyyy HH24:MI'),
4      3,
5      'L',
6      77,
7      'GEN002',
8      13,
9      53
10 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (
2      34,
3      TO_DATE('26-Jul-2023 11:00', 'dd-Mon-yyyy HH24:MI'),
4      4,
5      'S',
6      76,
7      'GEN003',
8      9,
9      54
10 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (

```



```
2      35,  
3      TO_DATE('26-Jul-2023 12:00', 'dd-Mon-yyyy HH24:MI'),  
4      5,  
5      'L',  
6      75,  
7      'ORS001',  
8      15,  
9      55  
10 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO appointment VALUES (  
2      60,  
3      TO_DATE('26-Jul-2023 15:00', 'dd-Mon-yyyy HH24:MI'),  
4      12,  
5      'T',  
6      78,  
7      'PER002',  
8      12,  
9      NULL  
10 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO appointment VALUES (  
2      56,  
3      TO_DATE('02-Aug-2023 9:00', 'dd-Mon-yyyy HH24:MI'),  
4      6,  
5      'S',  
6      74,  
7      'PED001',  
8      6,  
9      NULL  
10 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO appointment VALUES (  
2      57,  
3      TO_DATE('02-Aug-2023 10:00', 'dd-Mon-yyyy HH24:MI'),  
4      7,  
5      'T',  
6      73,  
7      'PED002',  
8      7,
```

```
9      NULL
10 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (
2      58,
3      TO_DATE('02-Aug-2023 11:00', 'dd-Mon-yyyy HH24:MI'),
4      8,
5      'S',
6      72,
7      'ORT001',
8      8,
9      NULL
10 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO appointment VALUES (
2      59,
3      TO_DATE('02-Aug-2023 12:00', 'dd-Mon-yyyy HH24:MI'),
4      11,
5      'L',
6      71,
7      'PER001',
8      11,
9      NULL
10 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO appointment VALUES (
2      36,
3      TO_DATE('02-Aug-2023 13:00', 'dd-Mon-yyyy HH24:MI'),
4      12,
5      'T',
6      78,
7      'PER002',
8      1,
9      60
10 );
```

1 row inserted.

```
SQL>
SQL> COMMIT;
```

Commit complete. ✓

SQL>

SQL> --Display statements

SQL> SELECT

```
2      *
3  FROM
4      emergency_contact;
```

EC_ID	EC_FNAME	EC_LNAME	EC_PHONE
1	Matt	Damon	9874563214
2	Mark	Welberg	5789641232
3	Jhon	Whick	2587413690
4	Tony	Stark	9874566542
5	Puneeth	Rajkumar	2587413721

SQL>

SQL> SELECT

```
2      *
3  FROM
4      patient;
```

PATIENT_NO	PATIENT_FNAME	PATIENT_LNAME	PATIENT_STREET	PATIENT_CITY			
PAT	PATI	PATIENT_D	PATIENT_CO	PATIENT_CONTACTEMAIL	EC_ID		
71	Thanos	Purple	Stone street	Melbourne City			
VIC 3161	01/JAN/95	4568974132	snap11@gmail.com	4			
72	Shiva	Rajkumar	Bettina street	Queens City			
QLD 6161	02/FEB/72	1237898524	jogi@gmail.com	5			
73	Rajkumar	Dodmane	Arnott street	Queens City			
QLD 6162	01/APR/54	3571594568	doctor@gmail.com	5			
74	Steve	Rogers	Glens street	South warf City			
NSW 7163	02/MAR/89	1579534567	shield@gmail.com	4			
75	Scarlett	Jhon	Oakliegh street	Flinder City			
NT 8163	02/JUL/94	1579534565	widow@gmail.com	1			
76	Tom	Damon	Peter street	Bandura City			
ACT 2167	12/AUG/06	1579534560	TD@gmail.com	1			
77	Jerry	Whick	OT street	Bendigo City			
TAS 8167	02/AUG/06	1579534560	JW@gmail.com	3			
78	Sara	Whick	PT street	Silk City			
SA 9164	02/AUG/08	3579534560	SW@gmail.com	3			
79	Ben	Welberg	Orong street	Brown City			
WA 2164	02/AUG/08	1579534566	BW@gmail.com	2			
80	Jessica	Welberg	Matt street	Peter City			
NT 3167	02/AUG/10	1579534556	JW@gmail.com	2			

10 rows selected.

SQL>

SQL> SELECT

```
2      appt_no,
3      to_char(appt_datetime, 'dd-Mon-yyyy HH24:MI') AS appointment_date_time,
4      appt_roomno,
5      appt_length,
6      patient_no,
7      provider_code,
8      nurse_no,
9      appt_prior_apptno
10                                     AS previous_appointment_number
11 FROM
12 appointment;
```

	APPT_NO	APPOINTMENT_DATE_TIME	APPT_ROOMNO	A	PATIENT_NO	PROVID	NURSE_NO	PREVIOUS_APPOINTMENT_NUMBER
51	16-Jul-2023	09:00	2	S	80	GEN001	1	
52	16-Jul-2023	10:00	1	L	79	END001	2	
53	16-Jul-2023	10:00	3	T	77	GEN002	3	
54	16-Jul-2023	11:00	4	S	76	GEN003	4	
55	16-Jul-2023	12:00	5	L	75	ORS001	5	
32	26-Jul-2023	09:00	1	T	79	END001	15	52
33	26-Jul-2023	10:00	3	L	77	GEN002	13	53
34	26-Jul-2023	11:00	4	S	76	GEN003	9	54
35	26-Jul-2023	12:00	5	L	75	ORS001	15	55
60	26-Jul-2023	15:00	12	T	78	PER002	12	
56	02-Aug-2023	09:00	6	S	74	PED001	6	
57	02-Aug-2023	10:00	7	T	73	PED002	7	
58	02-Aug-2023	11:00	8	S	72	ORT001	8	
59	02-Aug-2023	12:00	11	L	71	PER001	11	
36	02-Aug-2023	13:00	12	T	78	PER002	1	60

15 rows selected.

SQL>

SQL> set echo on

SQL> -- Check INSERT Count

SQL> -----

SQL> set echo off

Table Rows inserted Requirement Met

1. EMERGENCY_CONTACT	5 Requirement (5 entries) Met
2. PATIENT	10 Requirement (10 entries) Met ✓
3. APPOINTMENT	15 Requirement (15 entries) Met

SQL> -- EXPLICIT checks

SQL> -----

```
SQL> -- PKs used - must be under 100 and not a sequence
```

```
SQL> set echo off
```

```
PK_ABOVE_100
```

```
0
```

```
SQL> -- Check INSERT Data - Data must mimic real data
```

```
SQL> set echo off
```

```
SQL> -- EMERGENCY_CONTACT
```

```
SQL> set echo off
```

EC_ID	EC_FNAME	EC_LNAME	EC_PHONE
1	Matt	Damon	9874563214
2	Mark	Welberg	5789641232
3	Jhon	Whick	2587413690
4	Tony	Stark	9874566542
5	Puneeth	Rajkumar	2587413721

```
SQL> -- PATIENT
```

```
SQL> set echo off
```

PATIENT_NO	PATIENT_FNAME	PATIENT_LNAME	PATIENT_STREET	PATIENT_CITY
PAT	PATI	PATIENT_CO	PATIENT_CONTACTEMAIL	EC_ID
DATEOFBIRTH	PATIENT_CONTACTEMAIL	EC_ID		
71	Thanos	Purple	Stone street	Melbourne City
VIC 3161	01-Jan-1995	4568974132	4	
72	Shiva	Rajkumar	Bettina street	Queens City
QLD 6161	02-Feb-1972	1237898524	5	
73	Rajkumar	Dodmane	Arnott street	Queens City
QLD 6162	01-Apr-1954	3571594568	5	
74	Steve	Rogers	Glens street	South warf City
NSW 7163	02-Mar-1989	1579534567	4	
75	Scarlett	Jhon	Oakliegh street	Flinder City
NT 8163	02-Jul-1994	1579534565	1	
76	Tom	Damon	Peter street	Bandura City
ACT 2167	12-Aug-2006	1579534560	1	
77	Jerry	Whick	OT street	Bendigo City
TAS 8167	02-Aug-2006	1579534560	3	
78	Sara	Whick	PT street	Silk City
SA 9164	02-Aug-2008	3579534560	3	
79	Ben	Welberg	Orong street	Brown City
WA 2164	02-Aug-2008	1579534566	2	
80	Jessica	Welberg	Matt street	Peter City
NT 3167	02-Aug-2010	1579534556	2	

```
10 rows selected.
```

```
SQL> -- APPOINTMENT
```

```
SQL> set echo off
```

APPT_NO	APPDATETIME	APPT_ROOMNO	A	PATIENT_NO	PROVID	NURSE_NO	APPT_PRIOR_APPTNO
32	26-Jul-2023 09:00	1	T	79	END001	15	52
33	26-Jul-2023 10:00	3	L	77	GEN002	13	53
34	26-Jul-2023 11:00	4	S	76	GEN003	9	54
35	26-Jul-2023 12:00	5	L	75	ORS001	15	55
36	02-Aug-2023 13:00	12	T	78	PER002	1	60
51	16-Jul-2023 09:00	2	S	80	GEN001	1	
52	16-Jul-2023 10:00	1	L	79	END001	2	
53	16-Jul-2023 10:00	3	T	77	GEN002	3	
54	16-Jul-2023 11:00	4	S	76	GEN003	4	
55	16-Jul-2023 12:00	5	L	75	ORS001	5	
56	02-Aug-2023 09:00	6	S	74	PED001	6	
57	02-Aug-2023 10:00	7	T	73	PED002	7	
58	02-Aug-2023 11:00	8	S	72	ORT001	8	
59	02-Aug-2023 12:00	11	L	71	PER001	11	
60	26-Jul-2023 15:00	12	T	78	PER002	12	

15 rows selected.

```
SQL> -- EXPLICIT checks
```

```
SQL> set echo off
```

```
SQL> -- EMERGENCY CONTACTs
```

```
SQL> -- Checking "Involve at least 2 people being the emergency contact for more than two patients"
```

```
SQL> set echo off
```

EC_ID	EC_FNAME	EC_LNAME	PATIENTCOUNT
4	Tony	Stark	2
5	Puneeth	Rajkumar	2
2	Mark	Welberg	2
3	Jhon	Whick	2
1	Matt	Damon	2

CONTACT4MORETHAN2

Error: Requirement NOT Met



```
SQL> -- PATIENT types
```

```
SQL> -- Checking "Involve at least 5 adult patients and 5 under age (under 18 years old) patients"
```

```
SQL> set echo off
```

PATIENT_NO	AGE
------------	-----

80	13
79	15
78	15
77	17
76	17
71	28
75	29
74	34
72	51
73	69

10 rows selected.

```
SQL> -- "Involve at least 5 adult patients aged >= 18"
```

```
SQL> set echo off
```

ADULTPATIENTS

-----  
Adult patient Requirement met ✓

```
SQL> -- "Involve at least 5 under age patients aged < 18"
```

```
SQL> set echo off
```

UNDERAGE

-----  
Under age patient requirement met ✓

```
SQL> -- APPOINTMENT checks
```

```
SQL> -- Checking "All appointments must be scheduled on three days in 2023"
```

```
SQL> set echo off
```

NODAYSUSED

-----  
Three specific appointment days requirement met ✓

```
SQL> -- Checking "Involve some parallel appointments"
```

```
SQL> set echo off
```

PARALLELSETS CRITERIA

-----  
1 Some parallel appointments requirement met ✓

```
SQL> -- Checking "Involve at least 5 different providers"
```

```
SQL> set echo off
```

NOPROVIDERS CRITERIA

-----  
10 Involve at least 5 different providers requirement met ✓

```
SQL> -- Checking "Involve at least 5 different nurses"
```

```
SQL> set echo off
```

```
NONURSES CRITERIA
```

```
-----  
13 Involve at least 5 different nurses requirement met ✓
```

```
SQL> -- Checking "Involve at least 3 follow up appointments"
```

```
SQL> set echo off
```

```
NOFOLLOWUPS CRITERIA
```

```
-----  
5 Involve at least 3 follow up appointments requirement met ✓
```

```
SQL> -- Checking "the patient, provider, nurse and room must not be double booked"
```

```
SQL> set echo off
```

```
OVERLAP_BOOKINGS
```

```
-----  
No nurse booking overlaps ✓
```

```
No provider booking overlaps
```

```
No room booking overlaps
```

Sub-task marked

```
SQL> ----- Student Data replaced with marking data -----
```

```
SQL> ----- Task 3 DML -----
```

```
SQL> @T3-mns-dm.sql
```

```
SQL> --*****PLEASE ENTER YOUR DETAILS BELOW*****
```

```
SQL> --T3-mns-dm.sql
```

```
SQL>
```

```
SQL> --Student ID:34194037
```

```
SQL> --Student Name:Sachin Shivaramaiah
```

```
SQL> --Unit Code:FIT9132
```

```
SQL> --Applied Class No: 02_OnCampus
```

```
SQL>
```

```
SQL> /* Comments for your marker:
```

```
SQL>a) For question A, Sequence has been created with respective drop sequence commands
```

```
SQL>
```

```
SQL>b) For question B, Tables emegrency_contact, appointment and patient has been inserted with respective data
```

```
SQL> requirements by using created sequences.
```

```
SQL>
```

```
SQL>c) For question C, Follow up appointment has been created with by aslo inserting previous reference appointment,
```

```
SQL> same can be verified by running a select query at the end of question c.
```

```
SQL>
```

```
SQL>d) For question D, the follow up appointment has been updated for the respective appointment number.
```

```
SQL> same can be verified by running a select query at the end of question d.
```

```
SQL>
```

```
SQL>e) For question E, the follow up appointment has been deleted. same can be verified by running a select
```



SQL> query at the end of question e.

SQL>

SQL>\*/

SQL>

SQL> --3(a)

SQL>

SQL> DROP SEQUENCE emergency\_contact\_seq;

Error starting at line : 28 File @ PATH\Shivaramaiah Sachin\_19959978\_assignsubmission\_file\T3-mns-dm.sql

In command -

DROP SEQUENCE emergency\_contact\_seq

Error report -

ORA-02289: sequence does not exist

02289. 00000 - "sequence does not exist"

\*Cause: The specified sequence does not exist, or the user does not have the required privilege to perform this operation.

\*Action: Make sure the sequence name is correct, and that you have the right to perform the desired operation on this sequence.

SQL>

SQL> CREATE SEQUENCE emergency\_contact\_seq START WITH 100 INCREMENT BY 5; ✓

Sequence EMERGENCY\_CONTACT\_SEQ created.

SQL>

SQL> DROP SEQUENCE patient\_seq;

Error starting at line : 32 File @ PATH\Shivaramaiah Sachin\_19959978\_assignsubmission\_file\T3-mns-dm.sql

In command -

DROP SEQUENCE patient\_seq

Error report -

ORA-02289: sequence does not exist

02289. 00000 - "sequence does not exist"

\*Cause: The specified sequence does not exist, or the user does not have the required privilege to perform this operation.

\*Action: Make sure the sequence name is correct, and that you have the right to perform the desired operation on this sequence.

SQL>

SQL> CREATE SEQUENCE patient\_seq START WITH 100 INCREMENT BY 5; ✓

Sequence PATIENT\_SEQ created.

SQL>

SQL> DROP SEQUENCE appointment\_seq;

Error starting at line : 36 File @ PATH\Shivaramaiah Sachin\_19959978\_assignsubmission\_file\T3-mns-dm.sql

In command -

DROP SEQUENCE appointment\_seq

Error report -

ORA-02289: sequence does **not** exist

02289. 00000 - "sequence does not exist"

\*Cause: The specified sequence does **not** exist, **or** the **user** does **not** have the required privilege **to** perform this **operation**.

\*Action: Make sure the sequence name **is** correct, **and** that you have the **right to** perform the desired **operation on** this sequence.

SQL>

SQL> **CREATE** SEQUENCE appointment\_seq **START WITH** 100 **INCREMENT BY** 5; ✓

Sequence APPOINTMENT\_SEQ created.

SQL>

SQL> --3(b)

SQL>

```
SQL> INSERT INTO emergency_contact VALUES (  
2     emergency_contact_seq.NEXTVAL,  
3     'Jonanthan',  
4     'Robey',  
5     '0412523122'  
6 );
```

1 **row** inserted.

SQL>

```
SQL> INSERT INTO patient VALUES (  
2     patient_seq.NEXTVAL,  
3     'Laura',  
4     NULL,  
5     '32 Epsilon Rd',  
6     'Gold Coast',  
7     'QLD',  
8     '4217',  
9     TO_DATE('1-Jan-2008', 'dd-Mon-yyyy'),  
10    '0412523124',  
11    'lr08@gmail.com',  
12    emergency_contact_seq.CURRVAL  
13 );
```

1 **row** inserted.

SQL>

```
SQL> INSERT INTO patient VALUES (  
2     patient_seq.NEXTVAL,  
3     'Lachlan',  
4     NULL,  
5     '32 Epsilon Rd',  
6     'Gold Coast',  
7     'QLD',
```

```

8      '4217',
9      TO_DATE('1-Jan-2012', 'dd-Mon-yyyy'),
10     '0412523421',
11     'lacr08@gmail.com',
12     emergency_contact_seq.CURRVAL
13 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (
2     appointment_seq.NEXTVAL,
3     TO_DATE('04-Sep-2023 15:30', 'dd-Mon-yyyy HH24:MI'),
4     (
5         SELECT
6             provider_roomno
7         FROM
8             provider
9         WHERE
10             upper(provider_title) = upper('Dr')
11             AND upper(provider_fname) = upper('Bruce')
12             AND upper(provider_lname) = upper('Striplin')
13     ),
14     'S',
15     (
16         SELECT
17             patient_no
18         FROM
19             patient
20         WHERE
21             upper(patient_fname) = upper('Laura')
22             AND ec_id = (
23                 SELECT
24                     ec_id
25                 FROM
26                     emergency_contact
27                 WHERE
28                     ec_phone = '0412523122'
29                     AND upper(ec_fname) = upper('Jonanthan')
30                     AND upper(ec_lname) = upper('Robey')
31             )
32     ),
33     (
34         SELECT
35             provider_code
36         FROM
37             provider
38         WHERE

```

```

39         upper(provider_title) = upper('Dr')
40     AND upper(provider_fname) = upper('Bruce')
41     AND upper(provider_lname) = upper('Striplin')
42 ),
43     6,
44     NULL
45 );

1 row inserted.

SQL>
SQL> INSERT INTO appointment VALUES (
2     appointment_seq.NEXTVAL,
3     TO_DATE('04-Sep-2023 16:00', 'dd-Mon-yyyy HH24:MI'),
4     (
5         SELECT
6             provider_roomno
7         FROM
8             provider
9         WHERE
10             upper(provider_title) = upper('Dr')
11             AND upper(provider_fname) = upper('Bruce')
12             AND upper(provider_lname) = upper('Striplin')
13     ),
14     'S',
15     (
16         SELECT
17             patient_no
18         FROM
19             patient
20         WHERE
21             upper(patient_fname) = upper('Lachlan')
22             AND ec_id = (
23                 SELECT
24                     ec_id
25                 FROM
26                     emergency_contact
27                 WHERE
28                     ec_phone = '0412523122'
29                     AND upper(ec_fname) = upper('Jonanthan')
30                     AND upper(ec_lname) = upper('Robey')
31             )
32     ),
33     (
34         SELECT
35             provider_code
36         FROM
37             provider

```

```

38         WHERE
39             upper(provider_title) = upper('Dr')
40         AND upper(provider_fname) = upper('Bruce')
41         AND upper(provider_lname) = upper('Striplin')
42     ),
43     6,
44     NULL
45 );

```

1 row inserted.

SQL>

SQL> COMMIT; ✓

Commit complete.

SQL>

SQL> --3(c)

SQL> INSERT INTO appointment VALUES (

2 appointment\_seq.NEXTVAL,

3 (

4 SELECT

5 appt\_datetime + INTERVAL '10' DAY

6 FROM **Not guaranteed to return a single value**

7 appointment

8 WHERE

9 patient\_no = (

**The actual date is already given in the question and should be used as it is (+10)**

10 SELECT

11 patient\_no

12 FROM

13 patient

14 WHERE

15 upper(patient\_fname) = upper('Lachlan')

16 AND ec\_id = (

17 SELECT

18 ec\_id

19 FROM

20 emergency\_contact

21 WHERE

22 ec\_phone = '0412523122'

23 AND upper(ec\_fname) = upper('Jonathan')

24 AND upper(ec\_lname) = upper('Robey')

25 )

26 )

27 ),

28 (

29 SELECT

30 provider\_roomno

```

31      FROM
32          provider
33      WHERE
34          upper(provider_title) = upper('Dr')
35      AND upper(provider_fname) = upper('Bruce')
36      AND upper(provider_lname) = upper('Striplin')
37  ),
38  'L',
39  (
40      SELECT
41          patient_no
42      FROM
43          patient
44      WHERE
45          upper(patient_fname) = upper('Lachlan')
46      AND ec_id = (
47          SELECT
48              ec_id
49          FROM
50              emergency_contact
51          WHERE
52              ec_phone = '0412523122'
53              AND upper(ec_fname) = upper('Jonanthan')
54              AND upper(ec_lname) = upper('Robey')
55      )
56  ),
57  (
58      SELECT
59          provider_code
60      FROM
61          provider
62      WHERE
63          upper(provider_title) = upper('Dr')
64      AND upper(provider_fname) = upper('Bruce')
65      AND upper(provider_lname) = upper('Striplin')
66  ),
67  14,
68  (
69      SELECT
70          appt_no
71      FROM
72          appointment
73      WHERE
74          appt_datetime = TO_DATE('04-Sep-2023 16:00', 'dd-Mon-yyyy HH24:MI')
75      AND provider_code = (
76          SELECT
77              provider_code
78          FROM

```

```

79         provider
80     WHERE
81         upper(provider_title) = upper('Dr')
82         AND upper(provider_fname) = upper('Bruce')
83         AND upper(provider_lname) = upper('Striplin')
84     )
85 )
86 );

```

1 row inserted.

SQL>

SQL> COMMIT; 

Commit complete.

SQL>

SQL> SELECT

```

2     appt_no,
3     to_char(appt_datetime, 'dd-Mon-yyyy HH24:MI') AS appoint_datetime,
4     appt_roomno,
5     appt_length,
6     patient_no,
7     provider_code,
8     nurse_no,
9     appt_prior_apptno
10 FROM
11     appointment;

```

	APPT_NO	APPOINT_DATETIME	APPT_ROOMNO	A	PATIENT_NO	PROVID	NURSE_NO	APPT_PRIOR_APPTNO
	1	08-Aug-2023 10:00	5	L	1	ORS001	1	
	2	08-Aug-2023 10:00	3	S	2	GEN002	2	
	3	08-Aug-2023 12:00	5	L	3	ORS001	9	
	4	08-Aug-2023 15:00	2	T	4	GEN001	7	
	5	08-Aug-2023 16:00	2	T	5	GEN001	7	
	6	08-Aug-2023 11:00	4	T	6	GEN003	5	
	7	08-Aug-2023 12:00	4	T	7	GEN003	5	
	8	08-Aug-2023 12:00	1	L	8	END001	3	
	9	11-Aug-2023 15:00	5	S	1	ORS001	1	1
	10	11-Aug-2023 09:15	12	T	9	PER002	4	
	11	11-Aug-2023 15:00	7	L	10	PED002	8	
	12	14-Aug-2023 10:00	5	S	1	ORS001	1	9
	13	14-Aug-2023 10:00	11	L	11	PER001	4	
	14	14-Aug-2023 14:00	1	T	8	END001	3	8
	15	14-Aug-2023 09:00	6	S	10	PED001	8	11
	16	14-Aug-2023 10:30	4	S	12	GEN003	7	
	100	04-Sep-2023 15:30	2	S	100	GEN001	6	
	105	04-Sep-2023 16:00	2	S	105	GEN001	6	

```

110 14-Sep-2023 16:00                2 L          105 GEN001          14          105

19 rows selected.

SQL>
SQL> --3(d)
SQL> UPDATE appointment
2  SET
3      appt_datetime = TO_DATE('4-Sep-2023 16:00', 'dd-Mon-yyyy HH24:MI') + INTERVAL '14'
4      DAY
5  WHERE
6      appt_prior_apptno IS NOT NULL
7      AND appt_datetime = TO_DATE('10-Sep-2023 16:00', 'dd-Mon-yyyy HH24:MI') + INTERVAL
8      '4' DAY;

```

Should involve only one person: "Lachlan"

1 row updated.

```

SQL>
SQL> COMMIT; ✓

Commit complete.

```

```

SQL>
SQL> SELECT
2      appt_no,
3      to_char(appt_datetime, 'dd-Mon-yyyy HH24:MI') AS appoint_datetime,
4      appt_roomno,
5      appt_length,
6      patient_no,
7      provider_code,
8      nurse_no,
9      appt_prior_apptno
10 FROM
11      appointment;

```

	APPT_NO	APPOINT_DATETIME	APPT_ROOMNO	A	PATIENT_NO	PROVID	NURSE_NO	APPT_PRIOR_APPTNO
	1	08-Aug-2023 10:00	5	L	1	ORS001	1	
	2	08-Aug-2023 10:00	3	S	2	GEN002	2	
	3	08-Aug-2023 12:00	5	L	3	ORS001	9	
	4	08-Aug-2023 15:00	2	T	4	GEN001	7	
	5	08-Aug-2023 16:00	2	T	5	GEN001	7	
	6	08-Aug-2023 11:00	4	T	6	GEN003	5	
	7	08-Aug-2023 12:00	4	T	7	GEN003	5	
	8	08-Aug-2023 12:00	1	L	8	END001	3	
	9	11-Aug-2023 15:00	5	S	1	ORS001	1	1
	10	11-Aug-2023 09:15	12	T	9	PER002	4	
	11	11-Aug-2023 15:00	7	L	10	PED002	8	



12	14-Aug-2023 10:00	5	S	1	ORS001	1	9
13	14-Aug-2023 10:00	11	L	11	PER001	4	
14	14-Aug-2023 14:00	1	T	8	END001	3	8
15	14-Aug-2023 09:00	6	S	10	PED001	8	11
16	14-Aug-2023 10:30	4	S	12	GEN003	7	
100	04-Sep-2023 15:30	2	S	100	GEN001	6	
105	04-Sep-2023 16:00	2	S	105	GEN001	6	
110	18-Sep-2023 16:00	2	L	105	GEN001	14	105

19 rows selected.

SQL>

SQL> --3(e)

SQL> DELETE FROM appointment

2 WHERE

3 appt\_datetime BETWEEN TO\_DATE('15-Sep-2023', 'dd-Mon-yyyy') AND TO\_DATE('22-Sep-2023'

4 , 'dd-Mon-yyyy')

5 AND provider\_code = (

6 SELECT

7 provider\_code

8 FROM

9 provider

10 WHERE

11 upper(provider\_title) = upper('Dr')

12 AND upper(provider\_fname) = upper('Bruce')

13 AND upper(provider\_lname) = upper('Striplin')

14 );

1 row deleted.

SQL>

SQL> COMMIT; ✓

Commit complete.

SQL>

SQL> --Display Statements

SQL> SELECT

2 appt\_no,

3 to\_char(appt\_datetime, 'dd-Mon-yyyy HH24:MI') AS appoint\_datetime,

4 appt\_roomno,

5 appt\_length,

6 patient\_no,

7 provider\_code,

8 nurse\_no,

9 appt\_prior\_apptno

10 FROM

11 appointment;

APPT_NO	APPOINT_DATETIME	APPT_ROOMNO	A	PATIENT_NO	PROVID	NURSE_NO	APPT_PRIOR_APPTNO
1	08-Aug-2023 10:00	5	L	1	ORS001	1	
2	08-Aug-2023 10:00	3	S	2	GEN002	2	
3	08-Aug-2023 12:00	5	L	3	ORS001	9	
4	08-Aug-2023 15:00	2	T	4	GEN001	7	
5	08-Aug-2023 16:00	2	T	5	GEN001	7	
6	08-Aug-2023 11:00	4	T	6	GEN003	5	
7	08-Aug-2023 12:00	4	T	7	GEN003	5	
8	08-Aug-2023 12:00	1	L	8	END001	3	
9	11-Aug-2023 15:00	5	S	1	ORS001	1	1
10	11-Aug-2023 09:15	12	T	9	PER002	4	
11	11-Aug-2023 15:00	7	L	10	PED002	8	
12	14-Aug-2023 10:00	5	S	1	ORS001	1	9
13	14-Aug-2023 10:00	11	L	11	PER001	4	
14	14-Aug-2023 14:00	1	T	8	END001	3	8
15	14-Aug-2023 09:00	6	S	10	PED001	8	11
16	14-Aug-2023 10:30	4	S	12	GEN003	7	
100	04-Sep-2023 15:30	2	S	100	GEN001	6	
105	04-Sep-2023 16:00	2	S	105	GEN001	6	

18 rows selected.

SQL>

SQL> -- Display Statements

SQL> SELECT

```
2      *
3  FROM
4      emergency_contact;
```

EC_ID	EC_FNAME	EC_LNAME	EC_PHONE
1	Sarah	Johnson	0446129124
2	Elizabeth		0345779594
3	Alexander	Soares	0482120455
4	Andrew	Hansman	0395333172
5		Bayldon	049095805
6	Mira	Hansman	0493536124
100	Jonanthan	Robey	0412523122

7 rows selected.

SQL>

SQL> SELECT

```
2      *
3  FROM
4      patient;
```

PATIENT_NO		PATIENT_FNAME		PATIENT_LNAME		PATIENT_STREET		PATIENT_CITY
PAT	PATI	PATIENT_D	PATIENT_CO	PATIENT_CONTACTEMAIL	EC_ID			
<hr/>								
	1	Jake		Auld		46 Glen William Road		Blackburn
VIC	3130	24/APR/67	0482848702	JakeAuld@hourapid.com	1			
	2			Roberts		Unit 3, 13 Moruya Road		Mooroolbark
VIC	3138	04/APR/96	0461643245	BrookeRoberts@spi.com	2			
	3	Darcy				18 Farnell Street		Warrandyte
VIC	3113	03/MAY/51	0440814836	DSoares71@hour.com	3			
	4	Marie-Rose		Johnson		46 Glen William Road		Blackburn
VIC	3130	28/JUN/10	0446129124	Johnsons@klog.com	1			
	5	Sally		Johnson		46 Glen William Road		Blackburn
VIC	3130	31/JAN/13	0446129124	Johnsons@klog.com	1			
	6	Gemma		Hansman		37 Bayview Road		Tyringa
SA	5671	03/MAR/80	0487186889	GemmaHansman@reefblue.com	4			
	7	Charli		Hansman		37 Bayview Road		Tyringa
SA	5671	03/DEC/15	0487186889	GemmaHansman@reefblue.com	4			
	8	Alice		Bayldon		33 Sunset Drive		Saint Helena
VIC	3088	09/NOV/16	0449724439	Bayldons@redkite.com.au	5			
	9	Ashley		Soares		14 Davis Street		Donvale
VIC	3111	16/MAY/75	0440814836	Ashley4173@kmpl.org	3			
	10	Imogen				38 Mandible Street		Yellingbo
VIC	3139	16/JUN/14	0445070410	ImoHan@raindrop.com.au	6			
	11	Anthony		Raggatt		51 Ghost Hill Road		Kalkallo
VIC	3064	05/APR/97	0447793731	ARaggat@ylkie.com	3			
	12	Lincoln		Hansman		38 Mandible Street		Yellingbo
VIC	3139	10/SEP/72	0462975870	Lincoln@raindrop.com.au	6			
	100	Laura				32 Epsilon Rd		Gold Coast
QLD	4217	01/JAN/08	0412523124	lr08@gmail.com	100			
	105	Lachlan				32 Epsilon Rd		Gold Coast
QLD	4217	01/JAN/12	0412523421	lacr08@gmail.com	100			

14 rows selected.

```
SQL>
SQL> set echo on
SQL> -- Checking "EMERGENCY_CONTACT"
SQL> set echo off
```

EC_ID	EC_FNAME	EC_LNAME	EC_PHONE
<hr/>			
100	Jonanthan	Robey	0412523122
6	Mira	Hansman	0493536124
5		Bayldon	049095805
4	Andrew	Hansman	0395333172
3	Alexander	Soares	0482120455
2	Elizabeth		0345779594
1	Sarah	Johnson	0446129124

7 rows selected.

SQL> -- Checking "PATIENT"

SQL> set echo off

PATIENT_NO	PATIENT_FNAME	PATIENT_LNAME	PATIENT_STREET	PATIENT_CITY
PAT PATI	PDATEBIRTH	PATIENT_CO PATIENT_CONTACTEMAIL	EC_ID	
105	Lachlan			
QLD 4217	01-Jan-2012	0412523421 lacr08@gmail.com	32 Epsilon Rd	Gold Coast
100	Laura		100	
QLD 4217	01-Jan-2008	0412523124 lr08@gmail.com	32 Epsilon Rd	Gold Coast
12	Lincoln	Hansman	100	
VIC 3139	10-Sep-1972	0462975870 Lincoln@raindrop.com.au	38 Mandible Street	Yellingbo
11	Anthony	Raggatt	6	
VIC 3064	05-Apr-1997	0447793731 ARaggat@ylkie.com	51 Ghost Hill Road	Kalkallo
10	Imogen		3	
VIC 3139	16-Jun-2014	0445070410 ImoHan@raindrop.com.au	38 Mandible Street	Yellingbo
9	Ashley	Soares	6	
VIC 3111	16-May-1975	0440814836 Ashley4173@kmpl.org	14 Davis Street	Donvale
8	Alice	Bayldon	3	
VIC 3088	09-Nov-2016	0449724439 Bayldons@redkite.com.au	33 Sunset Drive	Saint Helena
7	Charli	Hansman	5	
SA 5671	03-Dec-2015	0487186889 GemmaHansman@reefblue.com	37 Bayview Road	Tyringa
6	Gemma	Hansman	4	
SA 5671	03-Mar-1980	0487186889 GemmaHansman@reefblue.com	37 Bayview Road	Tyringa
5	Sally	Johnson	4	
VIC 3130	31-Jan-2013	0446129124 Johnsons@klog.com	46 Glen William Road	Blackburn
4	Marie-Rose	Johnson	1	
VIC 3130	28-Jun-2010	0446129124 Johnsons@klog.com	46 Glen William Road	Blackburn
3	Darcy		1	
VIC 3113	03-May-1951	0440814836 DSoares71@hour.com	18 Farnell Street	Warrandyte
2		Roberts	3	
VIC 3138	04-Apr-1996	0461643245 BrookeRoberts@spi.com	Unit 3, 13 Moruya Road	Mooroolbark
1	Jake	Auld	2	
VIC 3130	24-Apr-1967	0482848702 JakeAuld@hourapid.com	46 Glen William Road	Blackburn
			1	

14 rows selected.

SQL> -- Checking "APPOINTMENT"

SQL> set echo off

APPT_NO	APPTDATETIME	APPT_ROOMNO	A	PATIENT_NO	PROVID	NURSE_NO	APPT_PRIOR_APPTNO
105	04-sep-2023 16:00	2	S	105	GEN001	6	
100	04-sep-2023 15:30	2	S	100	GEN001	6	
14	14-aug-2023 14:00	1	T	8	END001	3	8

16	14-aug-2023	10:30	4	S	12	GEN003	7	
13	14-aug-2023	10:00	11	L	11	PER001	4	
12	14-aug-2023	10:00	5	S	1	ORS001	1	9
15	14-aug-2023	09:00	6	S	10	PED001	8	11
11	11-aug-2023	15:00	7	L	10	PED002	8	
9	11-aug-2023	15:00	5	S	1	ORS001	1	1
10	11-aug-2023	09:15	12	T	9	PER002	4	
5	08-aug-2023	16:00	2	T	5	GEN001	7	
4	08-aug-2023	15:00	2	T	4	GEN001	7	
3	08-aug-2023	12:00	5	L	3	ORS001	9	
7	08-aug-2023	12:00	4	T	7	GEN003	5	
8	08-aug-2023	12:00	1	L	8	END001	3	
6	08-aug-2023	11:00	4	T	6	GEN003	5	
1	08-aug-2023	10:00	5	L	1	ORS001	1	
2	08-aug-2023	10:00	3	S	2	GEN002	2	

18 rows selected.

Sub-task marked

SQL> ----- Task 4 ALTER -----

SQL> @T4-mns-alter.sql

SQL> --\*\*\*\*\*PLEASE ENTER YOUR DETAILS BELOW\*\*\*\*\*

SQL> --T4-mns-alter.sql

SQL>

SQL> --Student ID:34194037

SQL> --Student Name:Sachin Shivaramaiah

SQL> --Unit Code:FIT9132

SQL> --Applied Class No: 02\_OnCampus

SQL>

SQL> /\* Comments for your marker:

SQL>a) For Question A, the Appointment table has been altered with a coulumn named "total\_appointments\_for\_each\_patient"

SQL> it's default value is set 0, with the usage of subquery it gives details on the total appointments for the respective patient.

SQL> which can be checked with the below query

SQL>

SQL> select \* from patient;

SQL>

SQL>b) For Question B, overcoming many to many relationship a bridge table named patient\_emergency\_contact has been created which

SQL> consists patient\_id from the patient table and ec\_id from the emergency table which helps in storing mutiple contacts for the

SQL> patient if they wish. After creation the table is migrated with data from the other table using insert with subquery statements

SQL> This Can be verified by running the below given query after running the test data

SQL>

SQL> INSERT INTO patient\_emergency\_contact (

SQL> patient\_no,

SQL> ec\_id)

SQL> VALUES (

SQL> 72,

SQL> 4);

SQL> COMMIT;

SQL>

SQL>

```

SQL> SELECT
SQL>     p.patient_no,
SQL>     p.patient_fname
SQL>     || ' '
SQL>     || p.patient_lname AS patient_full_name,
SQL>     e.ec_fname
SQL>     || ' '
SQL>     || e.ec_lname      AS patient_emergency_contact_name,
SQL>     ltrim(e.ec_id)      AS patient_emergency_conatct_id
SQL> FROM
SQL>     patient p
SQL> JOIN patient_emergency_contact ep
SQL> ON p.patient_no = ep.patient_no
SQL> JOIN emergency_contact      e
SQL> ON e.ec_id = ep.ec_id;
SQL>

```

SQL>c) For Question C, a new table named nurse\_training\_log has been created to record the taining activities between trainer\_nurse and trainee\_nurse with unique training\_id. The table draws a relationship with the table nurse by getting referencing it's primary keys as foregin keys. Also check constraints has been placed to make sure the start\_datetime is always lesser than the end\_datetime to maintain uniform data.

```

SQL>*/
SQL>
SQL>
SQL> --4(a)
SQL>
SQL> ALTER TABLE patient ADD total_appointments NUMBER(5) DEFAULT 0; NOT NULL?

```

Table PATIENT altered.

Missing COMMENT  
ON COLUMN

```

SQL>
SQL> UPDATE patient p
2  SET
3     total_appointments = ltrim(
4         SELECT
5             COUNT(appt_no)
6         FROM
7             appointment a
8         WHERE
9             a.patient_no = p.patient_no
10     );

```

14 rows updated.

```

SQL>
SQL> COMMIT;

```

Commit complete.

SQL>

SQL> desc patient;

Name	Null?	Type
PATIENT_NO	NOT NULL	NUMBER (4)
PATIENT_FNAME		VARCHAR2 (30)
PATIENT_LNAME		VARCHAR2 (30)
PATIENT_STREET	NOT NULL	VARCHAR2 (50)
PATIENT_CITY	NOT NULL	VARCHAR2 (20)
PATIENT_STATE	NOT NULL	VARCHAR2 (3)
PATIENT_POSTCODE	NOT NULL	CHAR (4)
PATIENT_DOB	NOT NULL	DATE
PATIENT_CONTACTMOBILE	NOT NULL	CHAR (10)
PATIENT_CONTACTEMAIL	NOT NULL	VARCHAR2 (25)
EC_ID	NOT NULL	NUMBER (4)
TOTAL_APPOINTMENTS		NUMBER (5)

SQL>

SQL> SELECT

```
2      *
3  FROM
4      patient;
```

PATIENT_NO	PATIENT_FNAME	PATIENT_LNAME	PATIENT_STREET	PATIENT_CITY			
PAT	PATI	PATIENT_D	PATIENT_CO	PATIENT_CONTACTEMAIL	EC_ID	TOTAL_APPOINTMENTS	
1	Jake	Auld	46 Glen William Road	Blackburn			
VIC 3130	24/APR/67	0482848702	JakeAuld@hourapid.com	1	3		
2	Roberts	Unit 3, 13 Moruya Road	Mooroolbark				
VIC 3138	04/APR/96	0461643245	BrookeRoberts@spi.com	2	1		
3	Darcy	18 Farnell Street	Warrandyte				
VIC 3113	03/MAY/51	0440814836	DSoares71@hour.com	3	1		
4	Marie-Rose	Johnson	46 Glen William Road	Blackburn			
VIC 3130	28/JUN/10	0446129124	Johnsons@klog.com	1	1		
5	Sally	Johnson	46 Glen William Road	Blackburn			
VIC 3130	31/JAN/13	0446129124	Johnsons@klog.com	1	1		
6	Gemma	Hansman	37 Bayview Road	Tyringa			
SA 5671	03/MAR/80	0487186889	GemmaHansman@reefblue.com	4	1		
7	Charli	Hansman	37 Bayview Road	Tyringa			
SA 5671	03/DEC/15	0487186889	GemmaHansman@reefblue.com	4	1		
8	Alice	Bayldon	33 Sunset Drive	Saint Helena			
VIC 3088	09/NOV/16	0449724439	Bayldons@redkite.com.au	5	2		
9	Ashley	Soares	14 Davis Street	Donvale			
VIC 3111	16/MAY/75	0440814836	Ashley4173@kmpl.org	3	1		
10	Imogen	38 Mandible Street	Yellingbo				
VIC 3139	16/JUN/14	0445070410	ImoHan@raindrop.com.au	6	2		
11	Anthony	Raggatt	51 Ghost Hill Road	Kalkallo			
VIC 3064	05/APR/97	0447793731	ARaggat@ylkie.com	3	1		
12	Lincoln	Hansman	38 Mandible Street	Yellingbo			

VIC 3139	10/SEP/72	0462975870	Lincoln@raindrop.com.au	6	1	
100	Laura				32 Epsilon Rd	Gold Coast
QLD 4217	01/JAN/08	0412523124	lr08@gmail.com	100	1	
105	Lachlan				32 Epsilon Rd	Gold Coast
QLD 4217	01/JAN/12	0412523421	lacr08@gmail.com	100	1	

14 rows selected.

SQL> --4(b)

SQL>

SQL> --Table Drop Statement starts

SQL>

SQL> DROP TABLE patient\_emergency\_contact CASCADE CONSTRAINTS;

Error starting at line : 80 File @ PATH\Shivaramaiah Sachin\_19959978\_assignsubmission\_file\T4-mns-alter.sql

In command -

DROP TABLE patient\_emergency\_contact CASCADE CONSTRAINTS

Error report -

ORA-00942: table or view does not exist

00942. 00000 - "table or view does not exist"

\*Cause:

\*Action:

SQL>

SQL> --Table Drop Statement ends

SQL>

SQL> --Table Creation with constraints Starts

SQL>

```
SQL> CREATE TABLE patient_emergency_contact (
2     patient_no NUMBER(4),
3     ec_id      NUMBER(4),
4     CONSTRAINT new_patient_fk FOREIGN KEY ( patient_no )
5         REFERENCES patient ( patient_no ),
6     CONSTRAINT new_ec_id_fk FOREIGN KEY ( ec_id )
7         REFERENCES emergency_contact ( ec_id ),
8     CONSTRAINT patient_emergency_pk PRIMARY KEY ( patient_no,
9                                                  ec_id )
10 );
```

Table PATIENT\_EMERGENCY\_CONTACT created.

SQL>

SQL> --Table Creation with constraints Ends

SQL>

SQL> --Comments for table patient\_emergency\_contact starts

SQL>

SQL> COMMENT ON COLUMN patient\_emergency\_contact.patient\_no IS

```
2     'patient identifier(unique)';
```



Comment created.

SQL>

```
SQL> COMMENT ON COLUMN patient_emergency_contact.ec_id IS
2      'emergency_contact identifier(unique)';
```

Comment created.

SQL>

```
SQL> --Comments for table patient_emergency_contact ends
```

SQL>

```
SQL> -- Migrating primarykeys from patient table and emergency_contact table
```

SQL>

```
SQL> INSERT INTO patient_emergency_contact (
2      patient_no,
3      ec_id
4  )
5      SELECT
6          patient_no,
7          ec_id
8      FROM
9          patient
10     WHERE
11         ec_id IS NOT NULL;
```

14 rows inserted.

SQL>

```
SQL> COMMIT;
```

Commit complete.

```
SQL> -- Migration ends
```

SQL>

```
SQL> --Display statements starts
```

SQL>

```
SQL> desc patient_emergency_contact;
```

Name	Null?	Type
PATIENT_NO	NOT NULL	NUMBER(4)
EC_ID	NOT NULL	NUMBER(4)

SQL>

```
SQL> SELECT
2      *
3  FROM
4      patient_emergency_contact;
```

PATIENT_NO	EC_ID
------------	-------

1	1
2	2
3	3
4	1
5	1
6	4
7	4
8	5
9	3
10	6
11	3
12	6
100	100
105	100

14 rows selected.

**ec\_id not dropped in PATIENT**

```
SQL>
SQL> --Display statements end
SQL>
SQL> --4(c)
SQL>
SQL> DROP TABLE nurse_training_log CASCADE CONSTRAINTS;
```

Error starting at line : 139 File @ PATH\Shivaramaiah Sachin\_19959978\_assignsubmission\_file\T4-mns-alter.sql

In command -

```
DROP TABLE nurse_training_log CASCADE CONSTRAINTS
```

Error report -

ORA-00942: table or view does not exist

00942. 00000 - "table or view does not exist"

\*Cause:

\*Action:

```
SQL>
```

```
SQL> CREATE TABLE nurse_training_log (
2   training_id      NUMBER(4) NOT NULL,
3   trainer_nurse_no NUMBER(4) NOT NULL,
4   trainee_nurse_no NUMBER(4) NOT NULL,
5   start_datetime   DATE NOT NULL,
6   end_datetime     DATE NOT NULL,
7   t_description     VARCHAR2(100), NOT NULL?
8   CONSTRAINT nurse_training_pk PRIMARY KEY ( training_id ),
9   CONSTRAINT fk_trainee_nurse_no FOREIGN KEY ( trainee_nurse_no )
10      REFERENCES nurse ( nurse_no ),
11  CONSTRAINT fk_trainer_nurse_no FOREIGN KEY ( trainer_nurse_no )
12      REFERENCES nurse ( nurse_no ),
13  CONSTRAINT nurse_no_check CHECK ( trainer_nurse_no != trainee_nurse_no ),
14  CONSTRAINT date_check CHECK ( start_datetime < end_datetime )
```

Prefix?

```
15 );
```

Table NURSE\_TRAINING\_LOG created.

```
SQL>
```

```
SQL> COMMENT ON COLUMN nurse_training_log.training_id IS  
2      'Training identifier(unique)';
```

Comment created.

```
SQL>
```

```
SQL> COMMENT ON COLUMN nurse_training_log.trainer_nurse_no IS  
2      'Trainers nurse identifier(unique)';
```

Comment created.

```
SQL>
```

```
SQL> COMMENT ON COLUMN nurse_training_log.trainee_nurse_no IS  
2      'Trainee nurse identifier(unique)';
```

Comment created.

```
SQL>
```

```
SQL> COMMENT ON COLUMN nurse_training_log.start_datetime IS  
2      'Traning Start Date time';
```

Comment created.

```
SQL>
```

```
SQL> COMMENT ON COLUMN nurse_training_log.end_datetime IS  
2      'Traning end Date time';
```

Comment created.

```
SQL>
```

```
SQL> COMMENT ON COLUMN nurse_training_log.t_description IS  
2      'Traning Description';
```

Comment created.

```
SQL>
```

```
SQL> desc nurse_training_log;
```

Name	Null?	Type
TRAINING_ID	NOT NULL	NUMBER(4)
TRAINER_NURSE_NO	NOT NULL	NUMBER(4)
TRAINEE_NURSE_NO	NOT NULL	NUMBER(4)
START_DATETIME	NOT NULL	DATE

```

END_DATETIME      NOT NULL DATE
T_DESCRIPTION      VARCHAR2(100)
SQL>
SQL> -- Test Data
SQL> /*INSERT INTO patient_emergency_contact (
SQL>     patient_no,
SQL>     ec_id)
SQL>     VALUES (
SQL>     72,
SQL>     4);
SQL> COMMIT;
SQL>
SQL>
SQL> SELECT
SQL>     p.patient_no,
SQL>     p.patient_fname
SQL>     || ' '
SQL>     || p.patient_lname AS patient_full_name,
SQL>     e.ec_fname
SQL>     || ' '
SQL>     || e.ec_lname      AS patient_emergency_contact_name,
SQL>     ltrim(e.ec_id)     AS patient_emergency_conatct_id
SQL> FROM
SQL>     patient p
SQL> JOIN patient_emergency_contact ep
SQL> ON p.patient_no = ep.patient_no
SQL> JOIN emergency_contact      e
SQL> ON e.ec_id = ep.ec_id;
SQL>
SQL> select * from patient;
SQL>*/
SQL>
SQL> set echo on
SQL> -- Checking Tables
SQL> set echo off

```

TABLE_NAME	TABLE_TYPE
-----	-----
NURSE	TABLE
PROVIDER	TABLE
SPECIALISATION	TABLE
APPOINTMENT	TABLE
EMERGENCY_CONTACT	TABLE
PATIENT	TABLE
EMERGENCY_CONTACT_SEQ	SEQUENCE
PATIENT_SEQ	SEQUENCE
APPOINTMENT_SEQ	SEQUENCE
PATIENT_EMERGENCY_CONTACT	TABLE

NURSE\_TRAINING\_LOG                      **TABLE**

11 **rows** selected.

**Sub-task marked**

**SQL>** ===== *END RUN* =====

**SQL>** **set** echo **off**