

INFO503 ASSESSMENT

Part A

Melissa Wood 18478786

Question One – Create tables:

/*

Melissa Wood 18478786

First create all the tables using CREATE TABLE (table name) and add all the fields with their constraints making sure to include primary and foreign key and any checks for constraints that only allow certain entries.

*/

CREATE TABLE Staff

```
(
StaffID int identity(1,1) PRIMARY KEY,
Staff_FirstName varchar(20) NOT NULL,
Staff_LastName varchar(20) NOT NULL,
Staff_Role varchar(15) check (Staff_Role in ('GP','Surgeon','Reception','GP Intern','Nurse','Senior Nurse','Nurse Intern','Marketing','Admin')),
Gender char(1) check(Gender in('F','M','O')),
DateJoined Date NOT NULL,
DateLeft Date
)
```

CREATE TABLE Patient

```
(
PatientID int identity(1,1) PRIMARY KEY,
Pat_FirstName varchar(20) NOT NULL,
Pat_Last_Name varchar(20) NOT NULL,
DOB Date NOT NULL,
```

```
PhoneNum varchar(15) NOT NULL,  
StaffID int FOREIGN KEY References Staff(StaffID) NOT NULL,  
PatientGen char(1) check(PatientGen in('F','M','O'))  
)
```

```
CREATE TABLE Speciality
```

```
(  
SpecialityID int identity(1,1) PRIMARY KEY,  
SpecName varchar(30) NOT NULL,  
SpecNotes varchar(100)  
)
```

```
CREATE TABLE Charges
```

```
(  
ChargeID int identity(1,1) PRIMARY KEY,  
ChargeDesc varchar(80) NOT NULL,  
Duration int check(Duration <=60),  
HourlyRate int check(HourlyRate <=399)  
)
```

```
CREATE TABLE Staff_Speciality
```

```
(  
StaffID int FOREIGN KEY References Staff(StaffID),  
SpecialityID int FOREIGN KEY References Speciality(SpecialityID),  
DateQualified date,  
ValidTillDate date,  
Details varchar(100),  
)
```

```
CREATE TABLE Consultation
```

```
(  
ChargeID int FOREIGN KEY References Charges(CHargeID),  
StaffID int FOREIGN KEY References Staff(StaffID),  
DateConsulted date,  
StartTime numeric(4,2),  
PatientID int FOREIGN KEY References Patient(PatientID)  
)
```

```
/* Drop table command used to drop tables when I needed to make changes */
```

```
DROP TABLE Staff
```

```
DROP TABLE Patient
```

```
DROP TABLE Charges
```

```
DROP TABLE Speciality
```

```
DROP TABLE Consultation
```

```
DROP TABLE Staff_Speciality
```

Question Two – Insert the data:

```
/* Second we are going to add all the data into the tables using INSERT INTO  
the specified table and VALUES means that we are adding values into the columns.  
Each line is a new row of data and we need to include all the correct data or it  
will not work properly. For any data we cannot add we can use NULL instead, this  
is a blank entry. */
```

```
INSERT INTO Staff VALUES
```

```
(
'Homer', 'Robbins', 'GP', 'M', '2015-04-21', NULL),
('Marge', 'Johnson', 'Reception', 'F', '2015-04-27', NULL),
('Patty', 'Reyes', 'Reception', 'F', '2016-03-23', NULL),
('Selma', 'Bouvier', 'Admin', 'F', '2016-03-27', NULL),
('Ned', 'Flanders', 'Nurse', 'M', '2016-10-18', NULL),
('Lisa', 'Simpson', 'GP', 'F', '2016-12-04', NULL),
('Disco', 'Stu', 'Nurse Intern', 'M', '2018-03-27', '2018-08-17'),
('Melissa', 'Wood', 'Nurse Intern', 'F', '2023-08-17', NULL)
```

INSERT INTO Patient VALUES

```
(
'Caroline', 'Smith', '1981-06-21', '0271234567', 1, 'F'),
('James', 'Miller', '1972-05-23', '0221234567', 6, 'M'),
('Sarah', 'Walker', '1991-04-09', '0211234567', 6, 'F'),
('Sam', 'Paul', '1988-01-18', '0272345678', 1, 'M'),
('Jack', 'Johnson', '1974-10-26', '0212345678', 1, 'M')
```

INSERT INTO Speciality VALUES

```
(
'GP License', 'General GP consultation for registered patients'),
('Certified Assistance', 'Certified assistance'),
('Renewed License', 'Renewed license'),
('Training', 'Intern under training')
```

INSERT INTO Charges VALUES

```
(
'General GP consultation for registered patients', 30, 55),
('General GP consultation for casual patients', 30, 90),
('Emergency medical care for registered or casual patients', 30, NULL),
('Vaccination or Test collection for registered patients', 15, 0),
('Vaccination or Test collection for casual patients', 15, 40),
('Repeat perscription', 5, 5)
```

INSERT INTO Consultation VALUES

(2, 1, '2018-09-01', 08.30, 2),
(5, 3, '2018-09-04', 09.45, 3),
(5, 7, '2018-09-06', 09.45, 4),
(6, 7, '2018-09-07', 10.30, 3),
(4, 5, '2018-09-07', 10.45, 5)

INSERT INTO Staff_Speciality VALUES

(1, 3, '2014-04-23', '2024-04-23', 'License renewed until 31/3/2026'),
(1, 4, '2016-05-14', '2022-11-14', 'Intern on rotation in surgical unit'),
(3, 4, '2015-08-01', '2023-07-31', 'Intern on rotation in medical unit'),
(6, 1, '2015-08-01', '2026-08-31', 'General GP'),
(7, 4, '2018-09-03', '2025-07-31', 'Intern on rotation with GP')

/* Using the Select all from a specified table to test and make sure all the data is entered correctly
and there are no double ups. */

SELECT*

FROM Staff

SELECT*

FROM Patient

SELECT*

FROM Speciality

SELECT*

FROM Charges

SELECT*

FROM Consultation

SELECT*

FROM Staff_Speciality

Question Three – Create Roles and set privileges:

CREATE LOGIN FixItAll_Users WITH PASSWORD= 'Fixitall'

User - Admin:

Database User - Admin

Select a page

General

Owned Schemas

Membership

Securables

Extended Properties

Connection

Server:
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Connection:
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View connection properties

Progress

Ready

Script

Help

User type:

SQL user with login

User name:

Admin

...

Login name:

FixItAll_Users

...

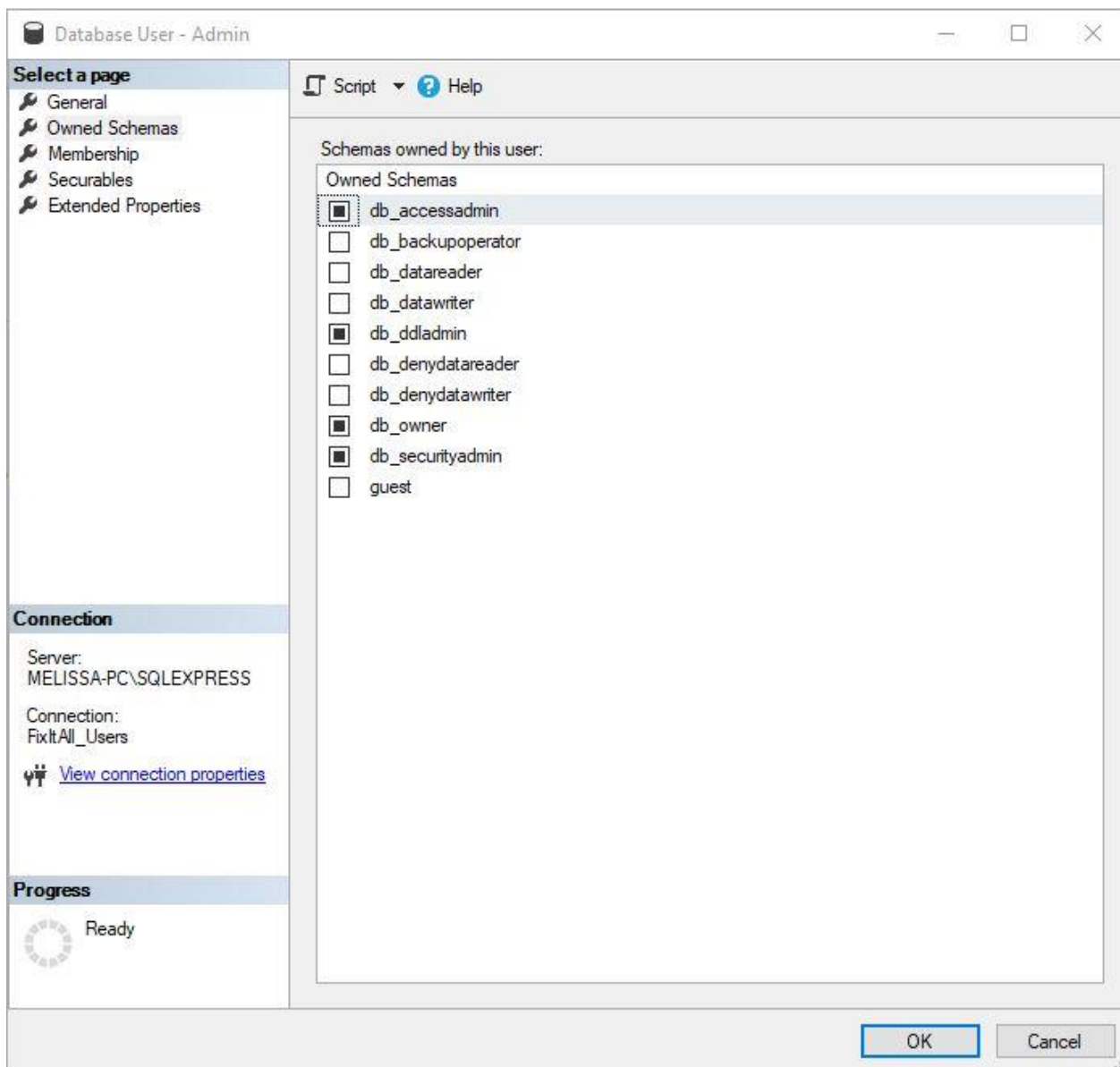
Default schema:

db_datareader

...

OK

Cancel



Database User - Admin

Select a page

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FixItAll_Users

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Progress

Ready

Script

Help

User name: Admin

Securables:

Search...

	Schema	Name	Type
	dbo	Charges	Table
	dbo	Consultation	Table
	dbo	Patient	Table
	dbo	Speciality	Table
	dbo	Staff	Table
	dbo	Staff_Speciality	Table

Permissions for dbo.Charges:

Column Permissions...

Explicit

Effective

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alter	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK

Cancel

GP:

 **Securables**
 Extended Properties

Database role name: GP

Securables:

Search...

	Schema	Name	Type
	dbo	Charges	Table
	dbo	Consultation	Table
	dbo	Patient	Table

Permissions for dbo.Charges:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection

Server:
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Connection:
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Progress



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Script  Help

Database role name: GP

Securables:

Search...

Schema	Name	Type
 dbo	Charges	Table
 dbo	Consultation	Table
 dbo	Patient	Table

Permissions for dbo.Consultation:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Database role name: GP

Securables:

Search...

	Schema	Name	Type
	dbo	Charges	Table
	dbo	Consultation	Table
	dbo	Patient	Table

Permissions for dbo.Patient:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection

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Nurse:

Select a page

General


Securables



Extended Properties

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Script   Help

Database role name:

Securables:

	Schema	Name	Type
	dbo	Charges	Table
	dbo	Consultation	Table
	dbo	Patient	Table

Permissions for dbo.Charges:

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Select a page




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Script  Help

Database role name: Nurse

Securables:

Search...

	Schema	Name	Type	
	dbo	Charges	Table	
	dbo	Consultation	Table	
	dbo	Patient	Table	

Permissions for dbo.Consultation:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Database role name: Nurse

Securables:

Search...

	Schema	Name	Type	
	dbo	Charges	Table	
	dbo	Consultation	Table	
	dbo	Patient	Table	

Permissions for dbo.Patient:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection

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Script  Help

Database role name:

Securables:

	Schema	Name	Type
	dbo	Charges	Table
	dbo	Consultation	Table
	dbo	Patient	Table
	dbo	Speciality	Table
	dbo	Staff	Table
	dbo	Staff_Speciality	Table

Permissions for dbo.Charges:

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Select a page







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Script  Help

Database role name: Reception

Securables:

Search...

	Schema	Name	Type	
	dbo	Charges	Table	
	dbo	Consultation	Table	
	dbo	Patient	Table	
	dbo	Speciality	Table	
	dbo	Staff	Table	
	dbo	Staff_Speciality	Table	

Permissions for dbo.Consultation:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection

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OK

Cancel

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Script  Help

Database role name: Reception

Securables:

Search...

	Schema	Name	Type	
	dbo	Charges	Table	
	dbo	Consultation	Table	
	dbo	Patient	Table	
	dbo	Speciality	Table	
	dbo	Staff	Table	
	dbo	Staff_Speciality	Table	

Permissions for dbo.Patient:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Ready

OK

Cancel

Select a page

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Script Help

Database role name: Reception

Securables:

Search...

	Schema	Name	Type
	dbo	Charges	Table
	dbo	Consultation	Table
	dbo	Patient	Table
	dbo	Speciality	Table
	dbo	Staff	Table
	dbo	Staff_Speciality	Table

Permissions for dbo.Speciality:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection

Server:
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Ready

OK

Cancel

Select a page







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Script  Help

Database role name: Reception

Securables:

Search...

	Schema	Name	Type	
	dbo	Charges	Table	
	dbo	Consultation	Table	
	dbo	Patient	Table	
	dbo	Speciality	Table	
	dbo	Staff	Table	
	dbo	Staff_Speciality	Table	

Permissions for dbo.Staff:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection

Server:
MELISSA-PC\SQLEXPRESS

Connection:
FixItAll_Users

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Script  Help

Database role name: Reception

Securables:

Search...

Schema	Name	Type	
 dbo	Charges	Table	
 dbo	Consultation	Table	
 dbo	Patient	Table	
 dbo	Speciality	Table	
 dbo	Staff	Table	
 dbo	Staff_Speciality	Table	

Permissions for dbo.Staff_Speciality:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete	dbo	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Connection

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Nurse Intern:

Database Role Properties - Nurse Intern

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Script

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Database role name: Nurse Intern

Securables:

Search...

	Schema	Name	Type
	dbo	Charges	Table
	dbo	Consultation	Table

Permissions for dbo.Charges:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK

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Script ? Help

Database role name: Nurse Intern

Securables:

Search...

Schema	Name	Type
dbo	Charges	Table
dbo	Consultation	Table

Permissions for dbo.Consultation:

Column Permissions...

Explicit

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
References		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select	dbo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View change track...		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Question Four – Writing Queries:

/*1. Write a query to show all the names of all the tables in the database.*/

/* <https://www.sqltutorial.org/sql-list-all-tables/> */

/* The Select statement is used to select the piece of data that is to be shown, in this case it is the tablename.

It gathers this information using the information schema, this is a catalog of all information to do with the database and it specifically pulls the tables */

```
SELECT TABLE_NAME  
FROM INFORMATION_SCHEMA.TABLES;
```

/*2. Write a query (or queries) to show the structure for each table in the database*/

/* To find how to do this query I used the previous query and found the option columns while typing
information_schema */

/*The structure of a table includes all the columns and column attributes of the table. */

/* The Select statement is used to select the piece of data that is to be shown and the asterisk means to select all columns. It gathers this information using the information schema, this is a catalog of all information to do with the database and it specifically pulls the table columns. Using the WHERE statement to find the table specified. This is repeated for each table */

```
SELECT *  
FROM INFORMATION_SCHEMA.COLUMNS  
WHERE TABLE_NAME = 'Staff'
```

```
SELECT *  
FROM INFORMATION_SCHEMA.COLUMNS  
WHERE TABLE_NAME = 'Patient'
```

```
SELECT *
```

```
FROM INFORMATION_SCHEMA.COLUMNS  
WHERE TABLE_NAME = 'Speciality'
```

```
SELECT *  
FROM INFORMATION_SCHEMA.COLUMNS  
WHERE TABLE_NAME = 'Charges'
```

```
SELECT *  
FROM INFORMATION_SCHEMA.COLUMNS  
WHERE TABLE_NAME = 'Consultation'
```

```
SELECT *  
FROM INFORMATION_SCHEMA.COLUMNS  
WHERE TABLE_NAME = 'Staff_Speciality'
```

/*3. Write a query (or queries) to show the contents of each table in the database*/

/* I learnt how to create this query during class */

/* This query uses the select * statement to select all and selects the data FROM the specified table.

This is repeated for each table to show all contents for all tables in the database */

```
SELECT *  
FROM Staff
```

```
SELECT *  
FROM Patient
```

SELECT *

FROM Speciality

SELECT *

FROM Charges

SELECT *

FROM Consultation

SELECT *

FROM Staff_Speciality