INFO503 ASSESSMENT

Part A

Melissa Wood 18478786

```
Question One – Create tables:
/*
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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,
```

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```
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)</pre>
)
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 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)
```

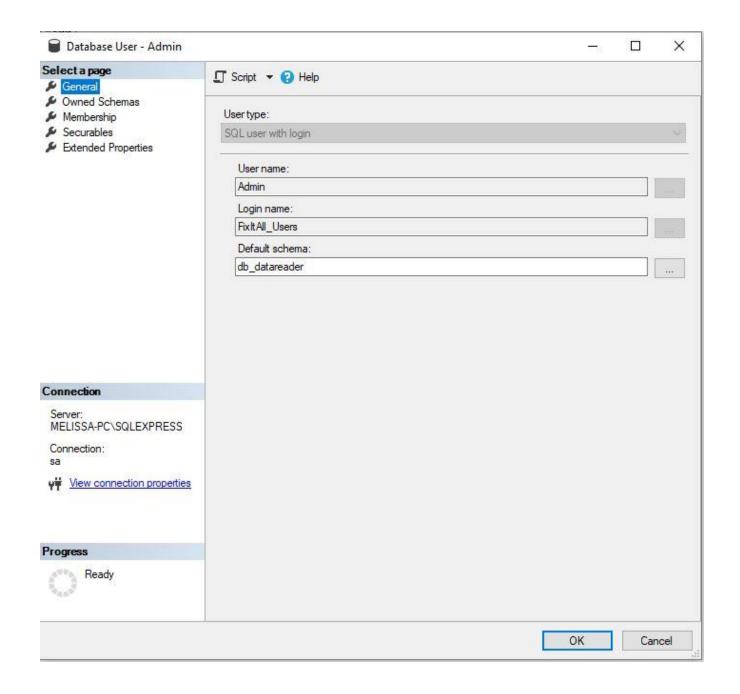
```
INSERT INTO Consultation VALUES
(2, 1, '2018-09-01', 08.30, 2),
(5, 3, '2018-09-04', 09.45, 3),
(5, 7, '2018-09-06', 09.45, 4),
(6, 7, '2018-09-07', 10.30, 3),
(4, 5, '2018-09-07', 10.45, 5)
INSERT INTO Staff_Speciality VALUES
(1, 3, '2014-04-23', '2024-04-23', 'License renewed until 31/3/2026'),
(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*
```

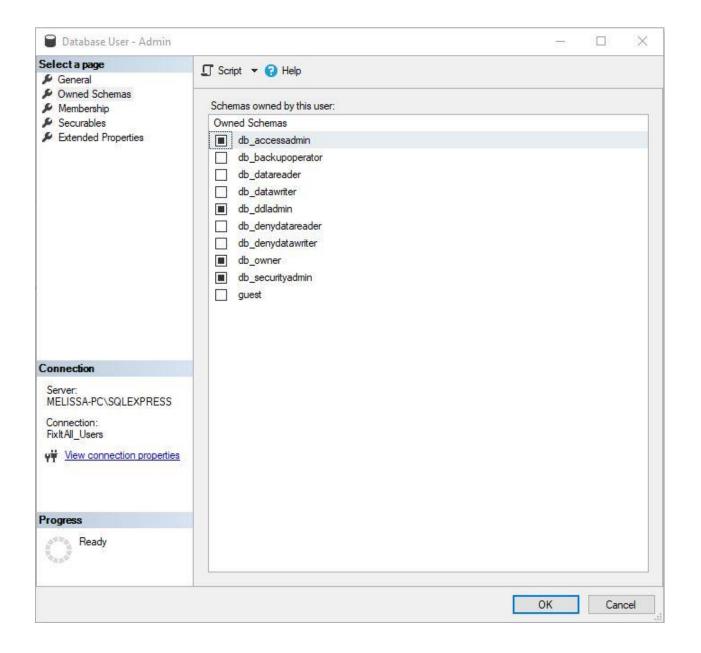
FROM Staff_Specia	ality

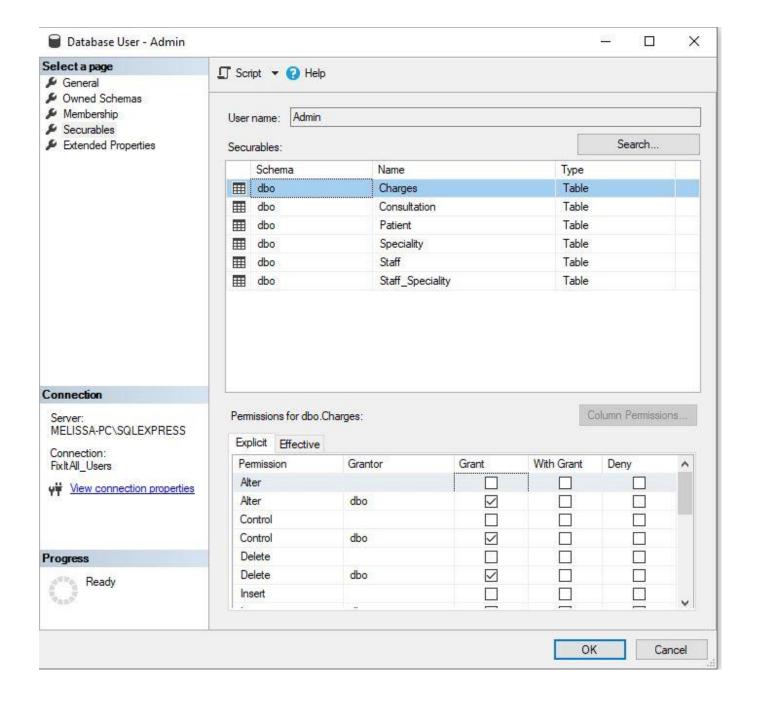
Question Three – Create Roles and set privileges:

CREATE LOGIN FixItAII_Users WITH PASSWORD= 'FixitalI'

User - Admin:





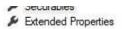


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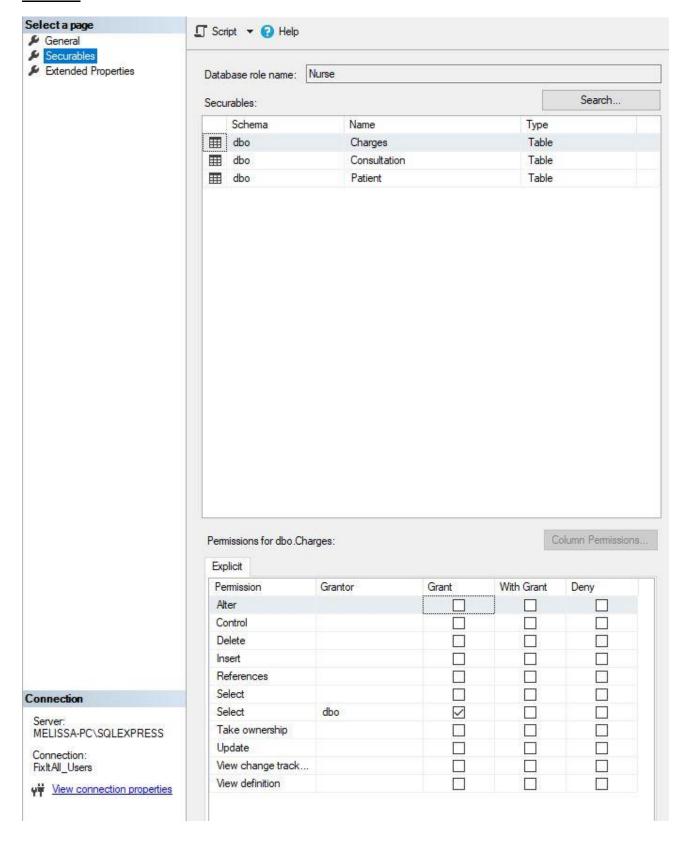
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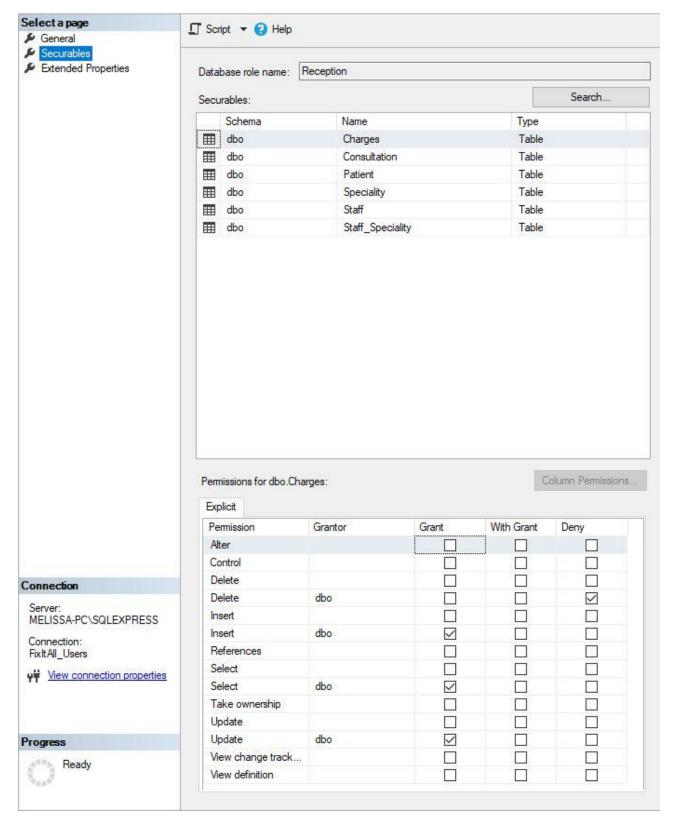
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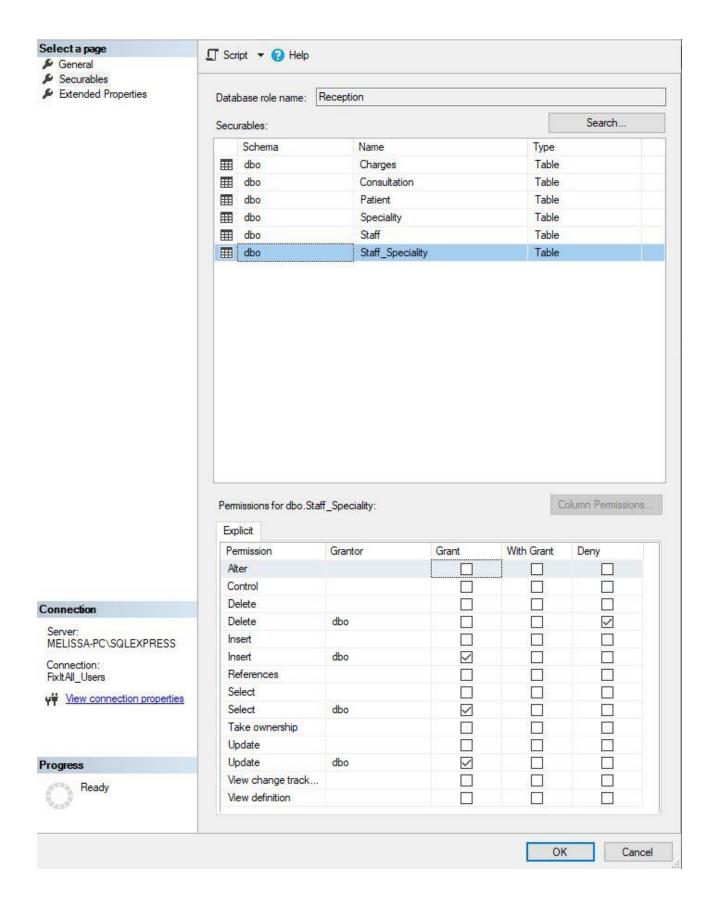
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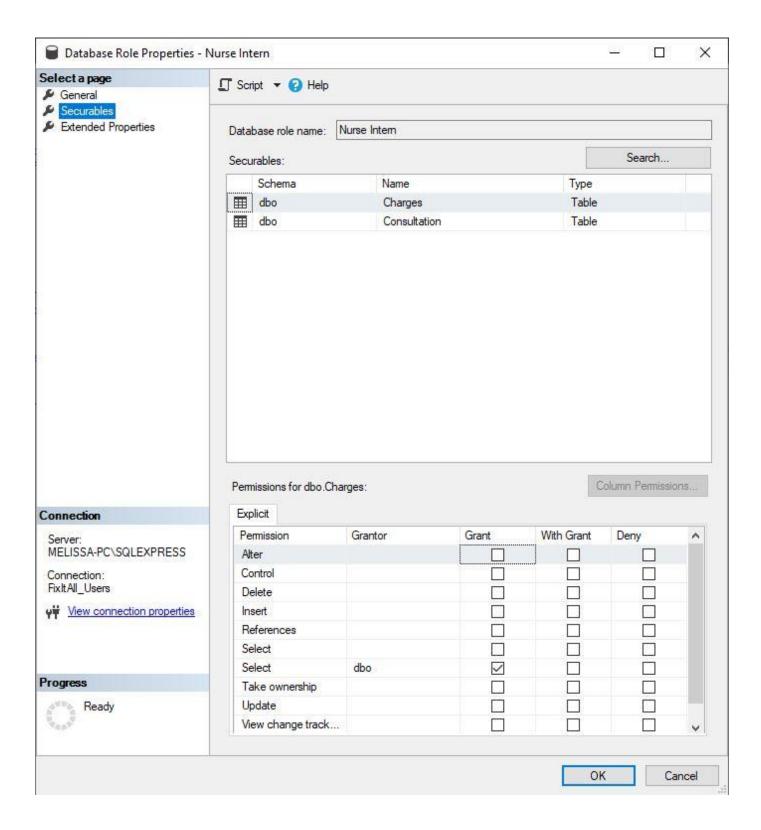
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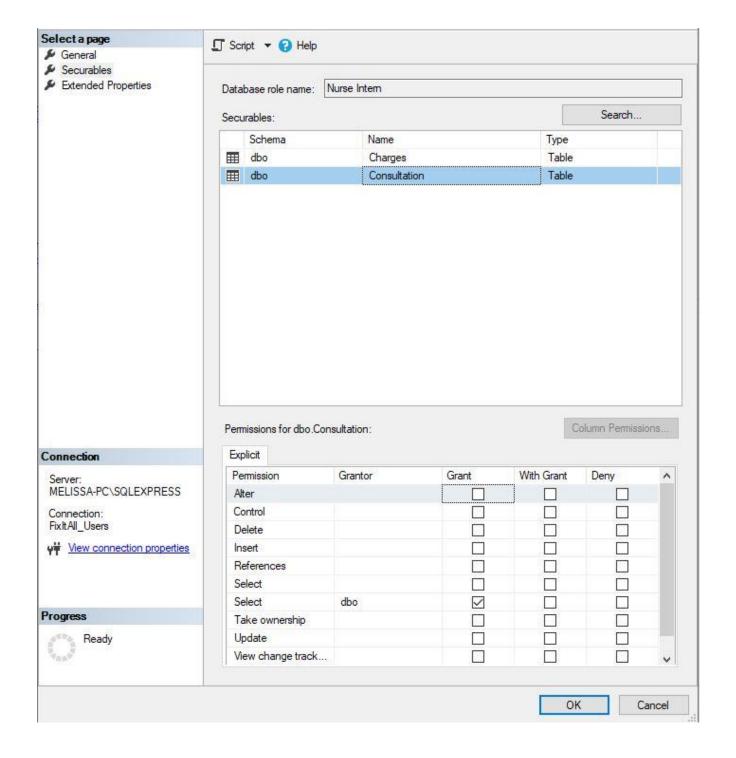
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Nurse Intern:





Question Four – Writing Queries:

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/*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
```

SELECT *

WHERE TABLE_NAME = 'Patient'

```
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