

UNIVERSITI MALAYSIA SARAWAK Faculty of Computer Science and Information Technology

Assignment/Report Cover Sheet

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Subject Code: TMF2034 (G01)	Subject Name: Database Concept & Design
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Assignment Title: PROJECT	Lecturer: Dr Bong Chih How

Due Date: 23/7/2020	Date Submitted: 23/7/2020

This cover sheet must be completed, signed and firmly attached to the front of the submission. All work must be submitted by the due date. If an extension of work is granted, an assignment extension acknowledgement slip must be signed by the lecturer/tutor and attached to assignment. Please note that is your responsibility to retain copies of your assignment.

Plagiarism and Collusion are methods of cheating that falls under Peraturan Akademik Universiti Malaysia Sarawak para 11: Etika Akademik

Plagiarism

Plagiarism is the presentation of work which has been copied in whole or in part from another person's work, or from any other source such as the internet, published books or periodicals without due acknowledgement given in the text.

Collusion

Collusion is the presentation of work that is the result in whole or in part of unauthorized collaboration with another person or persons.

Where there are reasonable grounds for believing that cheating has occurred, the only action that may be taken when plagiarism or collusion is detected is for the staff member not to mark the item of work and to report or refer the matter to the Dean. This may result in work being disallowed and given a fail grade or if the circumstances warrant, the matter may be referred to a Committee of inquiry for investigation. Such investigation may result in the matter being referred to the University Discipline Committee, **which** has the power to exclude a student.

Upon placing signature above, I certify that I have not plagiarized the work of others or participated in unauthorized collusion when preparing this assignment.

I also certify that I have taken proper case in safeguarding my work and have made all reasonable efforts to ensure that may work not be able to be copied.

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Introduction

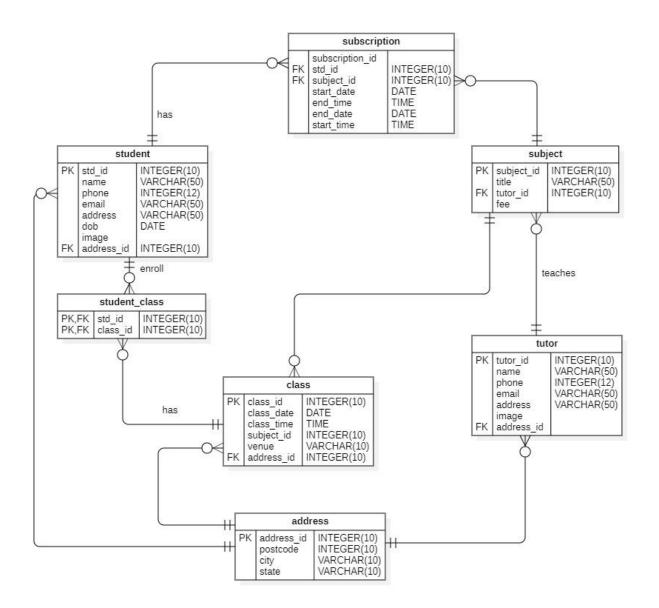
We have created a tuition center management system using Microsoft Access. The system has the main interface shown in the system screenshot section of this report on page 7.

Our system will store data of the student, tutor, subject, payment, and each class schedule. The database is fully created using the Microsoft Access software, our system will have a home page and a side menu to navigate through each table and manipulate data inside the entire database.

the ERD Diagram for our system is shown on page 3 which shows the relationships and our system database design.

In the end, on page 12, we show some reports generated from our system for user subscriptions and receipts for each student.

ERD Diagram

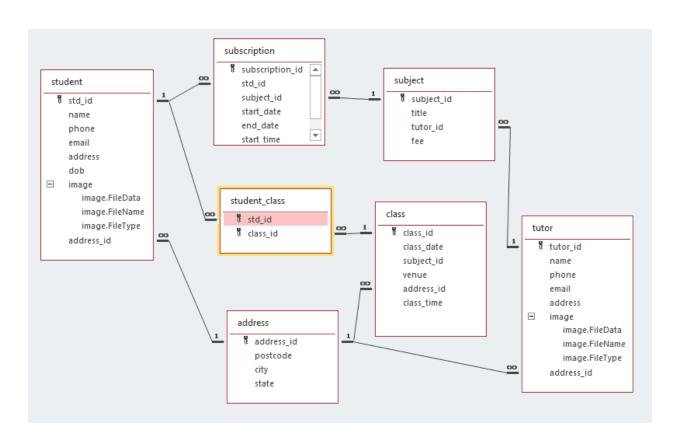


Entities

Entities that included in this Tuition Centre Management System are: -

- 1. Subscription: belongs to a student and a subject
- 2. Student: has many subscriptions and many classes
- 3. Student_class (Composite entity)
- 4. Subject: has many subscriptions, and being taught by one teacher
- 5. Tutor: teaches many subjects
- 6. Class: has many students
- 7. Address: belongs to many students, tutors, and classes

Relationships



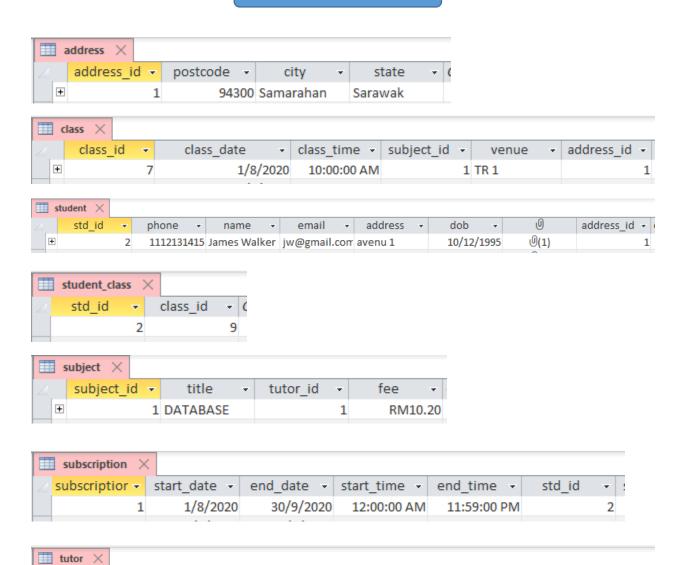
tutor_id - name -

1 Diego Roel

address id -

⊕(1)

Tables with data



phone - email - address -

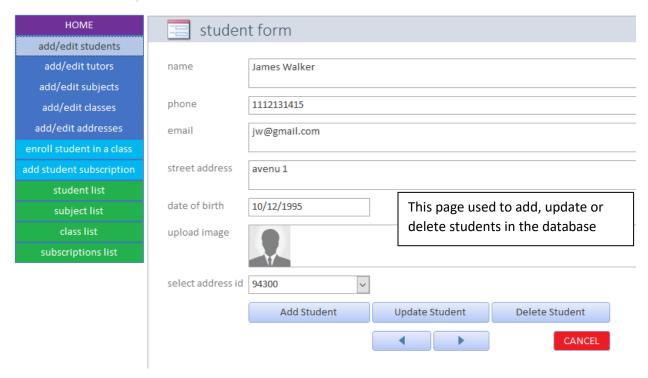
601455560 em11dr@gmai avenu 33

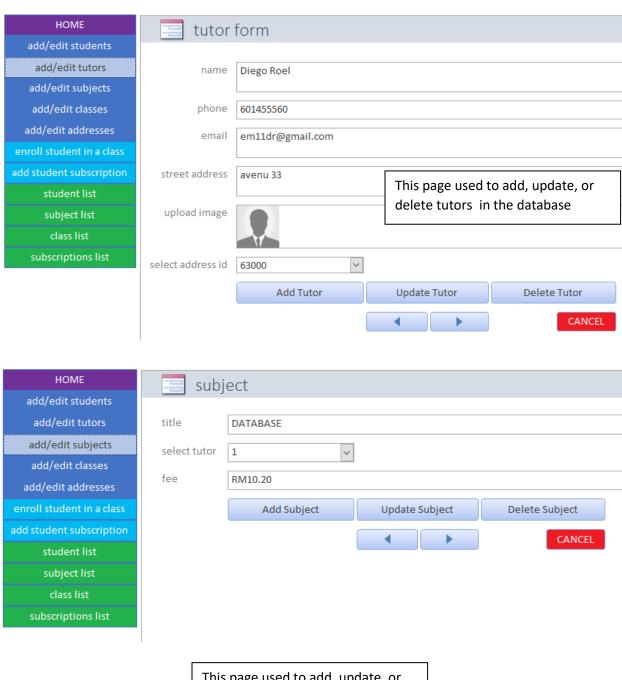
System Screenshot



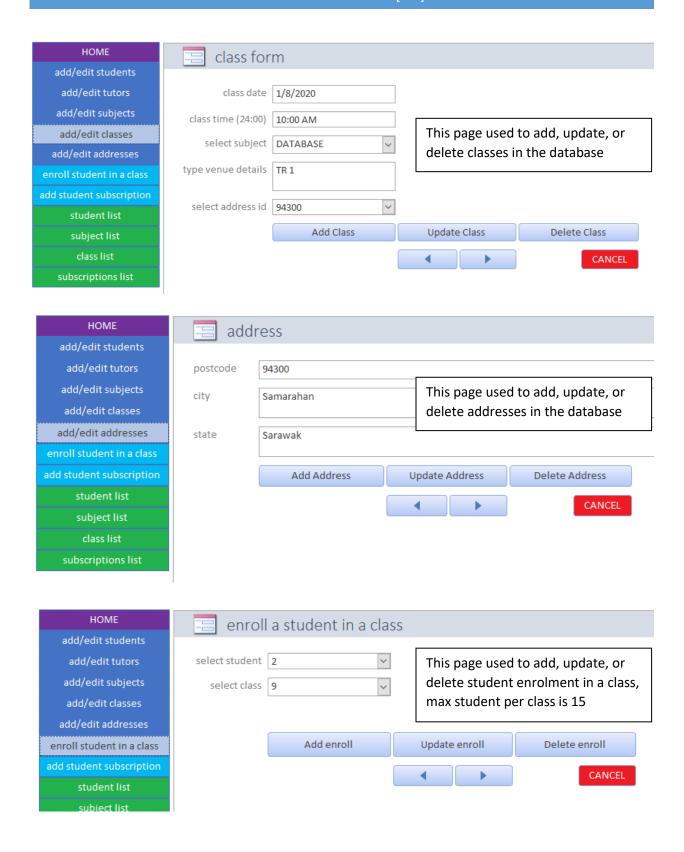
Welcome To Our tuition Management System
Select option from the left menu

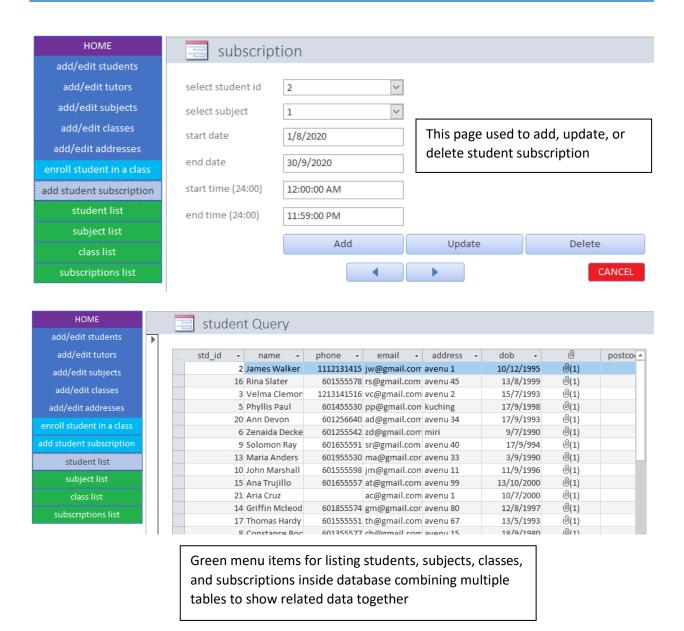
When user open the system this home page will show



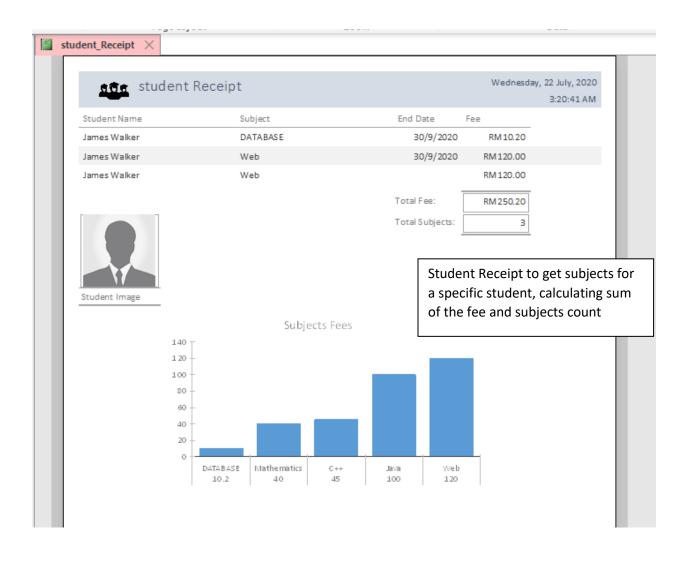


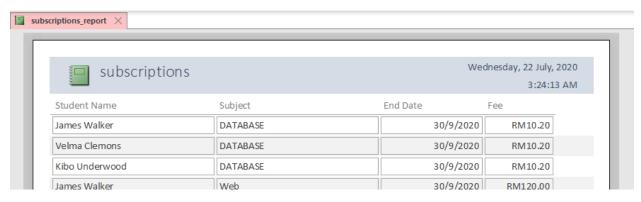
This page used to add, update, or delete subjects in the database



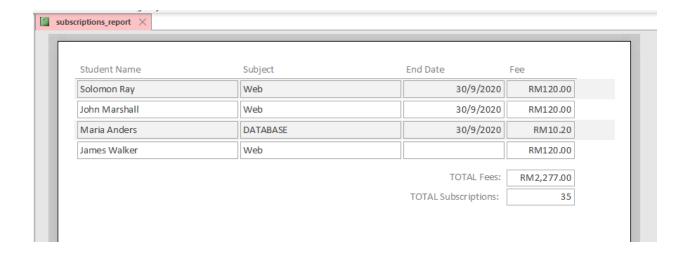


Reports





Subscriptions report to list all subscription in the database and calculating sum of all subscription and number of subscriptions



Queries

```
1 SELECT *
2 FROM class
3 WHERE class_id IN (
4 SELECT class_id
5 FROM student_class
6 GROUP BY class_id
7 HAVING COUNT(*) <= 15
8 )
9 OR class_id NOT IN (
10 SELECT class_id
11 FROM student_class
12 );
13
```

max_class_student:

to only show classes in enrol menu if the class has less than 15 students registered in this class or the class has not any students registered

```
1 SELECT student.[image], student.[name] AS [Student NAME],
2 subject.[title] AS Subject, subscription.[end_date] AS [End DATE],
3 subject.[fee] AS Fee
4 FROM (subscription
5 INNER JOIN student ON subscription.[std_id] = student.[std_id])
6 INNER JOIN subject ON subscription.[subject_id] = subject.[subject_id]
7 WHERE student.[std_id] = [Enter Student ID];
```

Student_subscription:

to get student receipt and displaying his image, subjects he subscribed to and end date of subscription and fee per each subject

```
1 SELECT class.[class_id], class.[class_date], class.[class_time],
 2 class.[venue], subject.[title] AS [subject Title]
 3 FROM class INNER JOIN subject ON class.[subject_id] = subject.[subject_id];
 5 SELECT student.[std_id], student.[name], student.[phone],
 6 student.[email], student.[address], student.[dob], student.[image],
 7 address.[postcode], address.[city], address.[state]
 8 FROM student INNER JOIN address ON student.[address_id] = address.[address_id];
10 SELECT subject.[subject_id], subject.[title], subject.[fee],
11 tutor.[name] AS [Tutor Nmae], tutor.[phone] AS [Tutor Phone],
12 tutor.[email] AS [Tutor Email], address.[city] AS [Tutor City],
13 address.[state] AS [Tutor State]
14 FROM (subject INNER JOIN tutor ON subject.[tutor_id] = tutor.[tutor_id])
15 INNER JOIN address ON tutor.[address_id] = address.[address_id];
16
17 SELECT student.[name] AS [Student Name], subject.[title] AS Subject,
18 subscription.[end_date] AS [End Date], subject.[fee] AS Fee
19 FROM (subscription INNER JOIN student ON subscription.[std_id] = student.[std_id])
20 INNER JOIN subject ON subscription.[subject_id] = subject.[subject_id]
21 ORDER BY student.[name];
22
```

```
class_list_query: display class schedules list
student_list_query: display students list
subject_list_query: display subjects list
subscriptions_query: display subscriptions list
```

Thank you...