

Entity Relationship Modelling Exercises

1. Best postgraduate student award is a attendance system for award ceremony for the best postgraduate students (see Figure 1 and 2). Identify all entities, attributes, and primary key attribute(s). Then, draw a complete entity relationship diagram to represent the conceptual data model for this attendance system.

UTM GSMS
UNIVERSITI TEKNOLOGI MALAYSIA

BEST POSTGRADUATE STUDENT AWARD SYSTEM

Login

Matric No.

Password:

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Figure 1: Login Page

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BEST POSTGRADUATE STUDENT AWARD SYSTEM

Attendance Confirmation

Confirmation

Name: LING HOW ING

Course: Master of Engineering (Civil - Hydraulics & Hydrology) - (MAG)

Faculty: FKA

Attendance:

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Figure 2: Detail Page

2. Three Minute Thesis (3MT) is a system that used for postgraduate students to participate in the presentation competition (see Figure 3 and 4). This presentation must be done in 3 minutes only. Identify all entities, attributes, and primary key attribute(s). Then, draw a complete entity relationship diagram to represent the conceptual data model for 3MT system.


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3MT 2013
THREE MINUTE THESIS COMPETITION


[Login](#)
[Terms & Conditions](#)
[Judging Criteria](#)

Three Minute Thesis (3MT) Competition 2013



Login

Matric No. :
 Password:

*Please use your ISID No. as the password

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Figure 3: Login Page


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3MT 2013
THREE MINUTE THESIS COMPETITION


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Student's Personal Particulars

Name : OBED RASHDI SYED	Faculty : International Business School
IC/ISID No. : 201202M10408	Programme :
Matric No. : PR113014	Bank Account No. : <input style="width: 100%;" type="text"/>
Phone No. : <input style="width: 100%;" type="text" value="0169465303"/>	Email : obaidrashdi@hotmail.com
Name of Supervisor : PROF. MADYA DR ROSMINI BINTI OMAR	Title of Thesis/Presentation : <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div>

Attachment

Note

(1) Files upload must be in **PDF format** only. Convert any file format to PDF format before upload it.

(2) Please write a **short research summary (200 words maximum)** that inspiring and engaging to a non-specialist academic audience.

(3) Size for each file must **not exceed 25MB**.

(4) Slide powerpoint must be **1 page only**.

(5) All **four items** below are required.

i) Slide Powerpoint	:	<input type="button" value="Choose File"/>	No file chosen
ii) Research Summary	:	<input type="button" value="Choose File"/>	No file chosen
iii) Matric Card	:	<input type="button" value="Choose File"/>	No file chosen
iv) Front Page Bank Account	:	<input type="button" value="Choose File"/>	No file chosen

Figure 4: Detail Page

3. Postgraduate Survey is a system that filled by visitor who present any events that made by SPS, UTM such as PostGraduate Info Day 2013 (see Figure 5). Identify all entities, attributes, and primary key attribute(s). Then, draw a complete entity relationship diagram to represent the conceptual data model for this attendance system.

UTM School of Graduate Studies **Postgraduate Survey**

POSTGRADUATE INFO DAY 2013
30/10/2013

You are visitor number **1001**

Visitor Survey

Name :

Email :

Nationality :

Gender :

Contact No. (eg: 012-3456789) :

Interested In

Faculty :

Level of Study :

Program Mode :

Type of Study :

Program Name :

How do you know about this event??

☐ Newspaper Advertisement ☐ UTM Staff

☐ Social Networking ☐ Friends

☐ UTM Website ☐ Education Fair

☐ Faculty Website ☐ Radio

☐ Banner/Bunting ☐ SMS

☐ Email ☐ Relatives

Others :

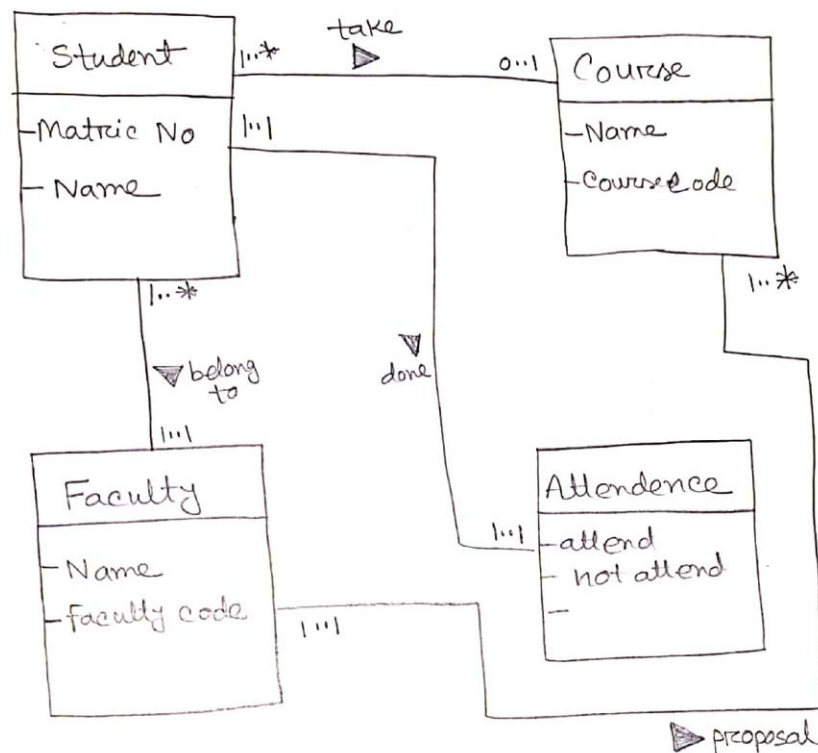
(Please Specify - max 50 characters)

Figure 5: Detail Page

4. Figure 6 is the Three Minute Thesis (3MT) Competition 2013 Application Form that used for postgraduate students to participate in the presentation competition. This presentation must be done in 3 minutes only. Identify all entities, attributes, and primary key attribute(s). Then, draw a complete entity relationship diagram to represent the conceptual data model for 3MT.

Entity Relationship Modelling Exercise

1.



Primary key = from student table (Matric No)

from course table (course code)

from faculty table (faculty code)

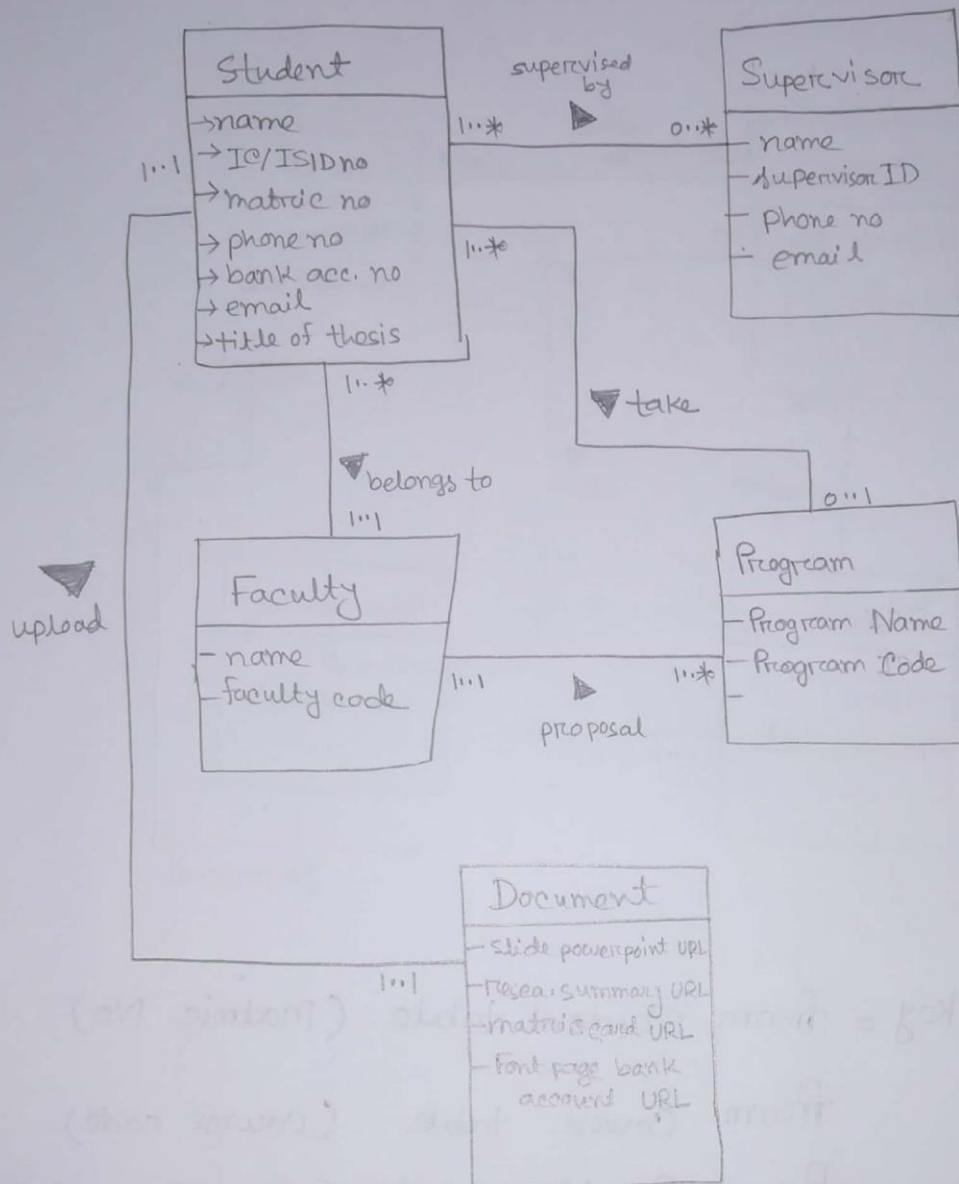
Entities = Student, Course, Faculty

Attributes = for student table, matric no, name

Course table course code, name

faculty table faculty code, name

2.

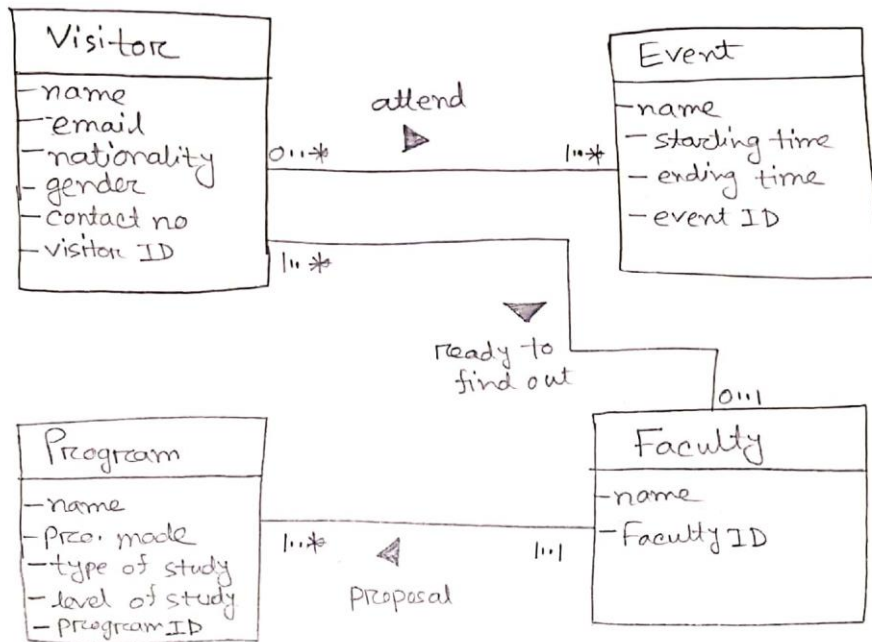


Primary key = from student table (matric no)
 from faculty table (Faculty code)
 from Program (Program code)

Entities = student, Supervisor, faculty, Program

Attributes will be a relationship with column.

3.

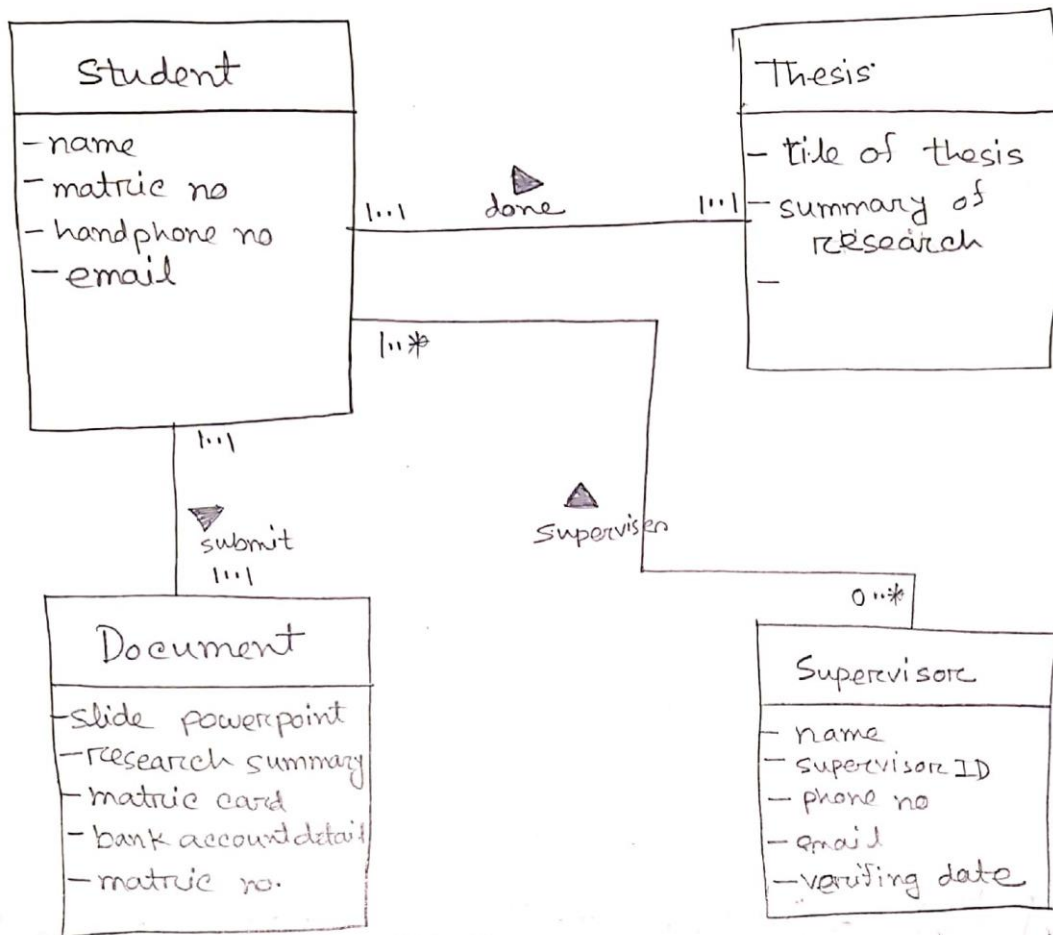


Primary Key = visitor ID (from visitor table)
 event ID (from Event table)
~~Program ID (from Program table)~~
 faculty ID (from faculty table)

Entities = Visitor, Event, faculty, Program

Attributes will be a relationship with column.

4.



Primary key = from student table (matric no)
from supervisor table (supervisor ID)

Entities = Student, thesis, Document, Supervisor

Attributes will be a relationship with column.