
 <div>Universiti Malaysia PAHANG <small>Engineering • Technology • Creativity</small></div>	FACULTY OF COMPUTING			MARKS
	COURSE: Object Oriented Programming		CODE: BCS2143	
	TOPIC: DATABASE			
	ASSESSMENT: HOT	NUM: 1	DURATION: 16 HOURS	

Name: LOGADARSHAN A/L KRISHNAN

MATRIC NUM: CB19083

GENERAL INSTRUCTIONS:

1. Please name your project/folder using your id. Example: **CA12321**.
2. After finished, **rar your folder** (right click folder -> Send to -> Compressed (zipped/RAR) folder) and **submit online using KALAM.**(**Please Check your Section before Submit**)
3. Please make sure you send the correct file/folder. Triple check your file/folder before submission. **Sending the wrong file/folder or an empty file/folder will receive 0 marks.**
4. This HOT will carried out 20% of your course mark.

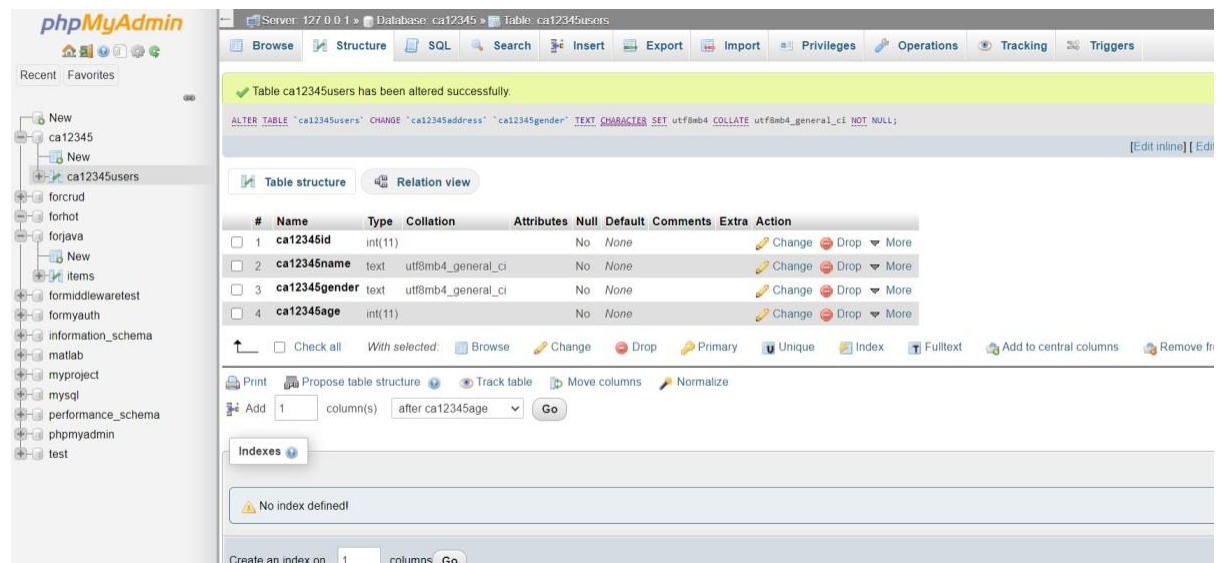
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BEFORE HOT

1. Create database name using your student ID (small letter)
Eg: ca12321
2. Create table name ca12321users contain 4 field as below
 - a. ca12321id
 - b. ca12321name
 - c. ca12321gender
 - d. ca12321age




The screenshot shows the phpMyAdmin interface for a MySQL database named 'ca12345'. The table 'ca12345users' has been successfully altered. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ca12345id	int(11)			No	None			Change Drop More
2	ca12345name	text	utf8mb4_general_ci		No	None			Change Drop More
3	ca12345gender	text	utf8mb4_general_ci		No	None			Change Drop More
4	ca12345age	int(11)			No	None			Change Drop More

The SQL command executed is: `ALTER TABLE 'ca12345users' CHANGE 'ca12345address' 'ca12345gender' TEXT CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci NOT NULL;`

The 'Indexes' section shows 'No index defined!'.

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DURING HOT

1. Create JAVA project in Netbean using your student ID number (Eg: CA12321) as name of the project. Setup JAVA connector for the project.

[3 Marks]

2. Setup JDBC driver and test the connection of your project to MYSQL database.

[10 Marks]

3. Create 4 Class including Main

- I. TestdbConnectionClass – Set and validate connection to database

[5 Marks]

- II. InsertTodbclass – Inserting data to database

[5 Marks]


- III. QueryFromdb – Query data from database

[5 Marks]

- IV. MainClass – calling method from all classes to check, insert and query from/to database base on instruction in Question 4, Question 5, Question 6.

[3 Marks]

(Class in I to III must have try, catch statement for SQLException)

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4. Using SQL in JAVA, Insert name, gender and age of at least 5 users to database including male and female with various age between 10 to 40 years old.

How many item want to key in :

7

Please enter id

1

Please enter name

Loga

Please enter gender

M

Please enter age

21

Please enter id

2

Please enter name

Siti

Please enter gender

F

Please enter age

17

Please enter id

3

Please enter name

Chong

Please enter gender

M

Please enter age

34

Please enter id

4

Please enter name

Malini

Please enter gender

F

Please enter age

12

Please enter id

5

Please enter name

Abu

Please enter gender

M

Please enter age

25

Please enter id

6

Please enter name

Ng

Please enter gender

F


Please enter age

31

Please enter id

7

Please enter name

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```

Please enter id
7
Please enter name
Siva
Please enter gender
M
Please enter age
19
BUILD SUCCESSFUL (total time: 3 minutes 51 seconds)

```

```

Select query :
select * from cb19083users


```

The SQL statement is: `select * from cb19083users`

The records selected are:

cb19083id	cb19083name	cb19083age	cb19083gender
1	Loga	M	21
2	Siti	F	17
3	Chong	M	34
4	Malini	F	12
5	Abu	M	25
6	Ng	F	31
7	Siva	M	19

[3 Marks]

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5. Using SQL in JAVA, Query name, gender and age of users under 20 years old.

Select query :

```
select * from cb19083users where cb19083age <20
```

The SQL statement is: `select * from cb19083users where cb19083age <20`

The records selected are:

cb19083id	cb19083name	cb19083age	cb19083gender
2	Siti	F	17
4	Malini	F	12
7	Siva	M	19

BUILD SUCCESSFUL (total time: 1 minute 10 seconds)

[3 Marks]

6. Using SQL in JAVA, Query name, gender and age of female user.

Select query :

```
select * from cb19083users where cb19083gender = 'F'
```


The SQL statement is: `select * from cb19083users where cb19083gender = 'F'`

The records selected are:

cb19083id	cb19083name	cb19083age	cb19083gender
2	Siti	F	17
4	Malini	F	12
6	Ng	F	31

BUILD SUCCESSFUL (total time: 2 minutes 18 seconds)

[3 Marks]

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