

Assignment 3 Report



*** Testing for frontend in Question1 ***

1) Database 3421a03 with empty tables –

✓	888	00:15:22	USE '3421a03'	0 row(s) affected	0.000 sec
✓	889	00:15:22	CREATE TABLE Event (Name VARCHAR(100) NOT NULL, EventWebLink VARCHAR(100) NOT NULL, ...	0 row(s) affected	0.016 sec
✓	890	00:15:22	CREATE TRIGGER count_trigger_insert BEFORE INSERT ON Event FOR EACH ROW UPDATE CF...	0 row(s) affected	0.015 sec
✓	891	00:15:22	CREATE TRIGGER count_trigger_delete AFTER DELETE ON EVENT FOR EACH ROW UPDATE CFPC...	0 row(s) affected	0.000 sec
✓	892	00:15:22	CREATE TABLE EventConference (EventName VARCHAR(100) NOT NULL, City VARCHAR(100) NOT ...	0 row(s) affected	0.016 sec
✓	893	00:15:22	CREATE TRIGGER count_trigger_insert2 BEFORE INSERT ON EventConference FOR EACH ROW UP...	0 row(s) affected	0.000 sec
✓	894	00:15:22	CREATE TRIGGER count_trigger_delete2 AFTER DELETE ON EventConference FOR EACH ROW UPD...	0 row(s) affected	0.000 sec
✓	895	00:15:22	CREATE TABLE EventJournal (EventName VARCHAR(100) NOT NULL, JournalName VARCHAR(100) ...	0 row(s) affected	0.015 sec
✓	896	00:15:22	CREATE TRIGGER count_trigger_insert3 BEFORE INSERT ON EventJournal FOR EACH ROW UPDAT...	0 row(s) affected	0.000 sec
✓	897	00:15:23	CREATE TRIGGER count_trigger_delete3 AFTER DELETE ON EventJournal FOR EACH ROW UPDATE...	0 row(s) affected	0.000 sec
✓	898	00:15:23	CREATE TABLE EventBook (EventName VARCHAR(100) NOT NULL, Publisher VARCHAR(100) NOT N...	0 row(s) affected	0.016 sec
✓	899	00:15:23	CREATE TRIGGER count_trigger_insert4 BEFORE INSERT ON EventBook FOR EACH ROW UPDATE ...	0 row(s) affected	0.015 sec
✓	900	00:15:23	CREATE TRIGGER count_trigger_delete4 AFTER DELETE ON EventBook FOR EACH ROW UPDATE C...	0 row(s) affected	0.000 sec
✓	901	00:15:23	CREATE TABLE ActivityHappens (EventName VARCHAR(100) NOT NULL, ActivityName VARCHAR(100...	0 row(s) affected	0.016 sec
✓	902	00:15:23	CREATE TABLE ResearchTopic (Name VARCHAR(100) NOT NULL, Area VARCHAR(100) NOT NULL, ...	0 row(s) affected	0.015 sec
✓	903	00:15:23	CREATE TABLE People (Name VARCHAR(100) NOT NULL, Affiliation VARCHAR(100), PRIMARY KEY (...	0 row(s) affected	0.016 sec
✓	904	00:15:23	CREATE TABLE Covers (EventName VARCHAR(100) NOT NULL, TopicName VARCHAR(100) NOT NU...	0 row(s) affected	0.031 sec
✓	905	00:15:23	CREATE TABLE Organizes (EventName VARCHAR(100) NOT NULL, PeopleName VARCHAR(100) NOT...	0 row(s) affected	0.032 sec
✓	906	00:15:23	CREATE TABLE CFPCount (cfp_count smallint default 1 , event_type VARCHAR(100) DEFAULT 'Eve...	0 row(s) affected	0.015 sec
✓	907	00:15:23	INSERT INTO CFPCount values (0,'EventConference')	1 row(s) affected	0.000 sec
✓	908	00:15:23	INSERT INTO CFPCount values (0,'EventJournal')	1 row(s) affected	0.000 sec
✓	909	00:15:23	INSERT INTO CFPCount values (0,'EventBook')	1 row(s) affected	0.000 sec
✓	910	00:21:58	SELECT * FROM 3421a03.event LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓	911	00:22:13	SELECT * FROM 3421a03.activityhappens LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec
✓	912	00:22:14	SELECT * FROM 3421a03.cfpcount LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
✓	913	00:22:16	SELECT * FROM 3421a03.covers LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓	914	00:22:21	SELECT * FROM 3421a03.organizes LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓	915	00:22:23	SELECT * FROM 3421a03.people LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓	916	00:22:24	SELECT * FROM 3421a03.researchtopic LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Event table –



Result Grid

  Filter Rows:

	Name	EventWebLink	CFPTText
•	NULL	NULL	NULL

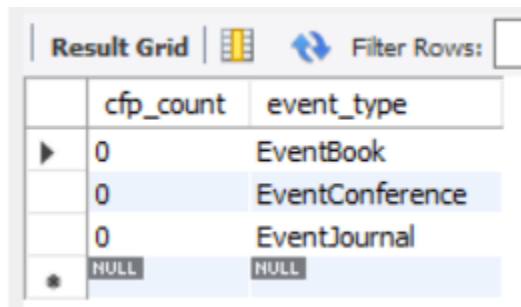
Activity_Happens table –

Result Grid



Filter Rows:

	EventName	ActivityName	ActivityDate
*	NULL	NULL	NULL

Cfp count table –



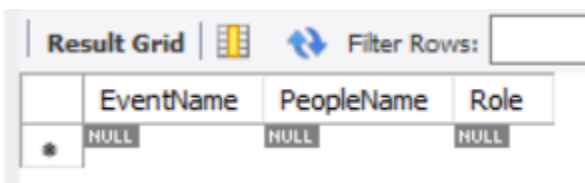
	cfp_count	event_type
▶	0	EventBook
	0	EventConference
	0	EventJournal
*	NULL	NULL

Covers table–



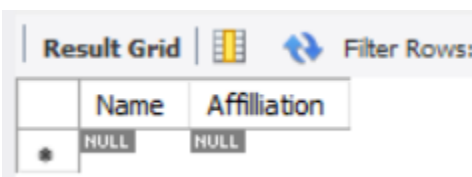
	EventName	TopicName
*	NULL	NULL

Organizes table–



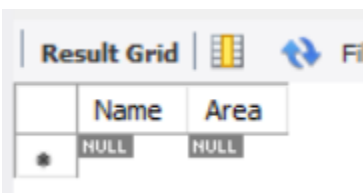
	EventName	PeopleName	Role
*	NULL	NULL	NULL

People table–



	Name	Affiliation
*	NULL	NULL

Research Topic table–



	Name	Area
*	NULL	NULL

2) Explanation of All GUI screens –

*** Main Screen GUI Explanation –

This screen gives the user a choice to either insert a new CFP into database or retrieve the information for a query.



*** GUI to insert new CFP Explanation –

This GUI gives the option to insert a new CFP into the database and display output message to application message box.

“CFP Inserted Successfully !!” -- message is displayed when a CFP is inserted successfully without any error else a error message is displayed.

 A screenshot of a complex GUI for inserting a new CFP. The window has a light gray background and a standard Windows-style title bar. The form contains several input fields and buttons. At the top, there are three text boxes labeled "Enter Event_Name", "Enter EventWebLink for the event", and "Enter CFPTxt for the event". Below these, there are three radio buttons for "Please select one of the Event type:" with options "EventConference", "EventJournal", and "EventBook". Further down, there are five text boxes for "JournalName", "Journal Publisher", "City", "Country", and "Date" (with a "YYYY-MM-DD" label). To the right of the "Date" box is a "YYYY-MM-DD" label. Below the "JournalName" box is a table with columns "Name", "Affiliation", and "Role". To the right of this table is a button labeled "Click to Insert People". Below the "City" box is a button labeled "Click to Insert Activity". To the right of this button is a table with columns "Activity Name" and "Activity Date (YYYY-MM-DD)". Below the "Activity Date" box is a button labeled "Click to Insert Research Topic". At the bottom, there is a large text area labeled "Application Message" and two buttons: "Insert CFP" and "Return To Main Screen".

User has the option to select 1 of the event type and GUI will automatically disable irrelevant text boxes.

To add a person, click on “Click to insert people” button

To add an activity, click on “Click to insert activity” button

To add Research Topic, click on “Click to insert Research Topic” button.

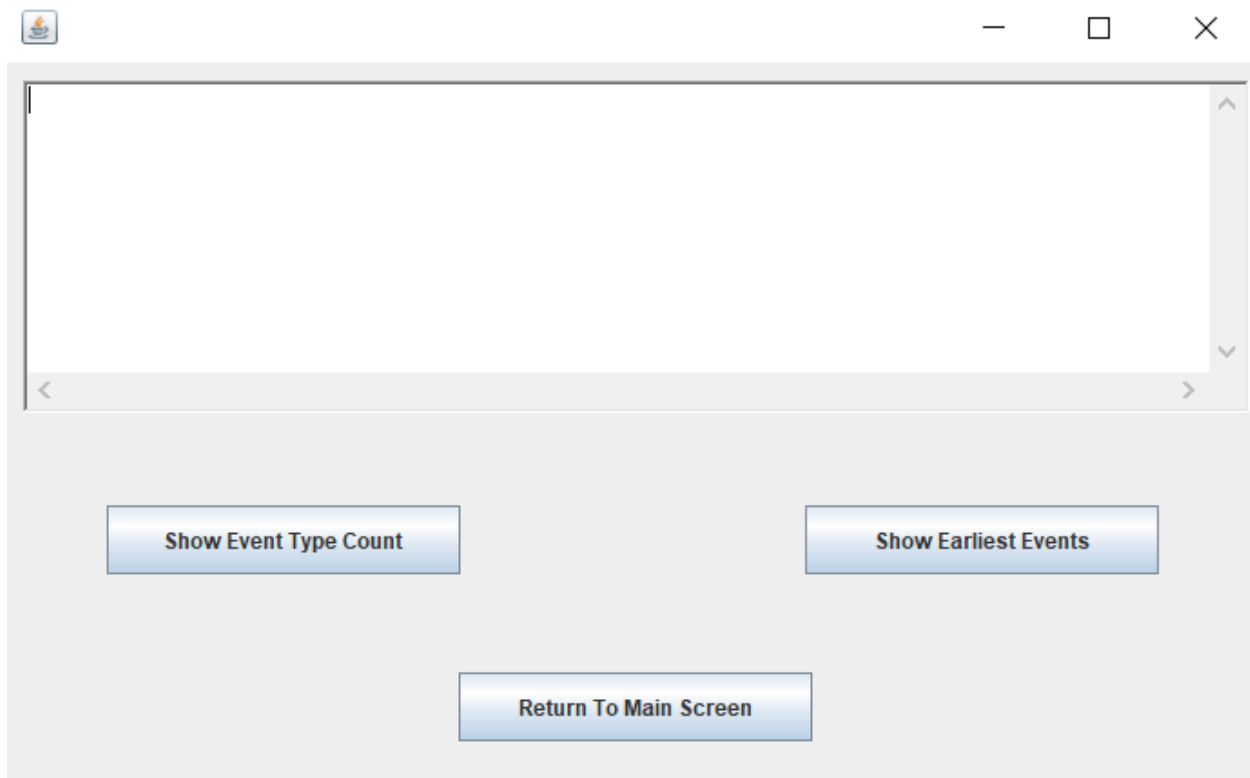
Once all the above the mentioned details are inputted then click on “insert CFP” button to insert this CFP into the database.

Relevant Message will be displayed in application message.

Click on “Return to main menu” button to go to main screen.

*** GUI to display query Explanation –

User choose between which query he wants to display on the GUI.



“Return to main screen” button will take user back to main screen.

2) Insertion of different type of events –

*** GUI illustrating insert of Event Conference –

Enter Event_Name

event conference

Enter EventWebLink for the event

www.eventconference.com

Enter CFPText for the event

this is event conference

Please select one of the Event type:
☒ EventConference
☐ EventJournal
☐ EventBook

JournalName

Journal Publisher

City

toronto

Country

Canada

Date

2019-03-22

YYYY-MM-DD

Name	Affiliation	Role
sam	u of t	organizer
samual	u of a	chair

Click to Insert People

Click to insert Activity

Activity Name	Activity Date (YYYY-MM-DD)
Paper Submission	2019-02-21

Insert role of a Person

☒ Yes
☐ No

Application Message

CFP Inserted Successfully !!

Research Topic Name	Area
IoT architecture for swarm robotics	IoT architecture for swarm robotics

Click to Insert Research Topic

Insert CFP

Return To Main Screen

*** GUI illustrating insert of Event Journal–

Enter Event_Name

event journal

Enter EventWebLink for the event

www.eventjournal.com

Enter CFPText for the event

this is event journal

Please select one of the Event type:
☐ EventConference
☒ EventJournal
☐ EventBook

JournalName

IEEE JSAC special issue

Journal Publisher

IEEE JSAC

City

toronto

Country

Canada

Date

2019-03-22

YYYY-MM-DD

Name	Affiliation	Role
alkuli	yorku	lead
samantha	ryerson	member

Click to Insert People

Click to insert Activity

Activity Name	Activity Date (YYYY-MM-DD)
Notification of Acceptance	2019-06-19

Insert role of a Person

☒ Yes
☐ No

Application Message

CFP Inserted Successfully !!

Research Topic Name	Area
Edge computing architecture for IoT	Edge computing architecture for IoT

Click to Insert Research Topic

Insert CFP

Return To Main Screen

*** GUI illustrating insert of Event Book–

Enter Event_Name: event Book

Enter EventWebLink for the event: www.eventBook.com

Enter CFPText for the event: this is event Book

Please select one of the Event type: ☐ EventConference ☐ EventJournal ☒ EventBook

JournalName: Jsac special issue

Journal Publisher: JSAC

City: toronto

Country: canada

Date: 2019-02-22

Name	Affiliation	Role
james J	centinal	organizer
aksha	yorku	developer

Click to Insert People

Click to Insert Activity

Activity Name	Activity Date (YYYY-MM-DD)
workshop of intelligent robots	2019-05-23
game of things	2019-04-29

Click to Insert Research Topic

Research Topic Name	Area
5G enabled IoT architecture	5G enabled IoT architecture
Block-chain enabled IoT architecture	Block-chain enabled IoT architecture

Click to Insert Research Topic

Insert role of a Person: ☒ Yes ☐ No

Application Message: CFP Inserted Successfully !!

Insert CFP

Return To Main Screen

*** Work bench Outputs –

Event table –

Name	EventWebLink	CFPText
event Book	www.eventBook.com	this is event Book
event conference	www.eventconference.com	this is event conference
event journal	www.eventjournal.com	this is event journal
NULL	NULL	NULL

Event book table –

EventName	Publisher
event Book	JSAC
NULL	NULL

Event Journal table –

Result Grid	Filter Rows:	Edit
EventName	JournalName	Publisher
event journal	IEEE JSAC special issue	IEEE JSAC
NULL	NULL	NULL

Event conference table –

Result Grid

Filter Rows:

Edit:

	EventName	City	Country	Date
▶	event conference	toronto	Canada	2019-03-22
✱	NULL	NULL	NULL	NULL

Organizes table –

Result Grid

Filter Rows:

	EventName	PeopleName	Role
▶	event Book	aksha	developer
	event Book	james J	organizer
	event conference	sam	organizer
	event conference	samual	chair
	event journal	akkuli	lead
	event journal	samantha	member
✱	NULL	NULL	NULL

People table –

Result Grid	Filter Rows:
Name	Affiliation
akkuli	yorku
aksha	yorku
james J	centinal
sam	u of t
samantha	ryerson
samual	u of a
NULL	NULL

Research Topic table –

Result Grid			Filter Rows:	Edit:
	Name	Area		
▶	5G enabled IoT architecture	5G enabled IoT architecture		
	Block-chain enabled IoT architecture	Block-chain enabled IoT architecture		
	Edge computing architecture for IoT	Edge computing architecture for IoT		
	IoT architecture for swarm robotics	IoT architecture for swarm robotics		
•	NULL	NULL		

Activity Happens table –

Result Grid				Filter Rows:	Edit:
	EventName	ActivityName	ActivityDate		
▶	event Book	game of things	2019-04-29		
	event Book	workshop of inteligent robots	2019-05-23		
	event conference	Paper Submission	2019-02-21		
	event journal	Notification of Acceptance	2019-06-19		
•	NULL	NULL	NULL		

Cfp count table –

Result Grid			Filter Rows:
	cfp_count	event_type	
▶	1	EventBook	
	1	EventConference	
	1	EventJournal	
•	NULL	NULL	

Covers table –

Result Grid			Filter Rows:	Edit:
	EventName	TopicName		
▶	event Book	5G enabled IoT architecture		
	event Book	Block-chain enabled IoT architecture		
	event journal	Edge computing architecture for IoT		
	event conference	IoT architecture for swarm robotics		
•	NULL	NULL		

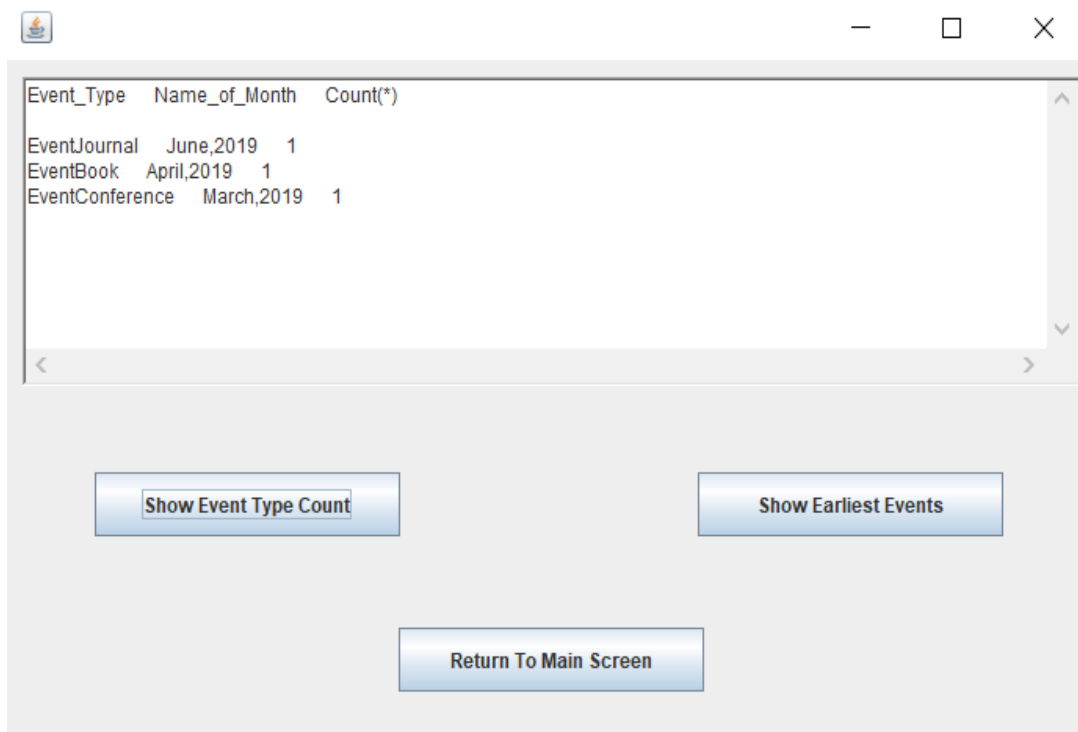
*** Testing for frontend in Question2 ***

1) For Query 1 in Q4 of assignment 2 –

Empty Screen – Press “Show Event Type Count” button to the Query 1 output.



Output of screen for Query 1 – We get output of Query1 using “Show Event type Count” button

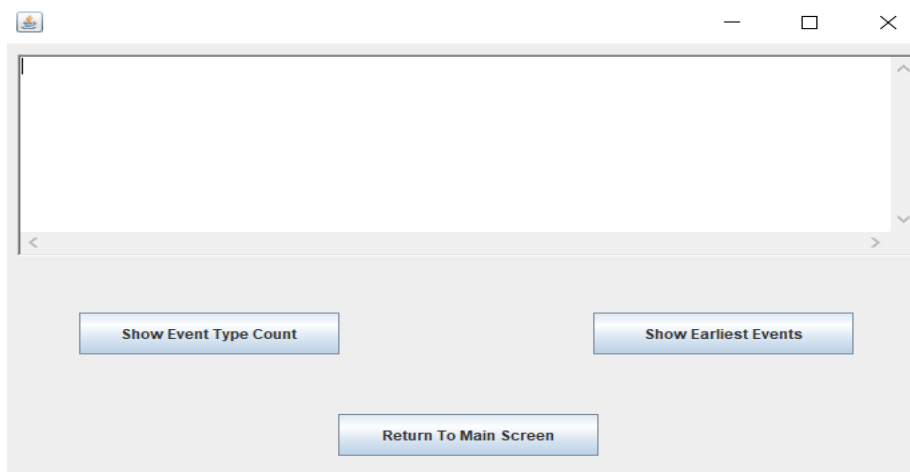


Output of workbench for Query 1 –

Result Grid			
Filter Rows: <input type="text"/>			
	Event_Type	Name of Month	count(*)
▶	EventJournal	June,2019	1
	EventBook	April,2019	1
	EventConference	March,2019	1

2) For Query 2 in Q4 of assignment 2 –

Empty Screen – To get the output of Query 2 use button “Show Earliest Events” button



Output of screen for Query 2 –

Event_Type	Event_Name	Activity_Date	Activity_Name
EventConference	event conference	2019-02-21	Paper Submission
EventBook	event Book	2019-04-29	game of things
EventJournal	event journal	2019-06-19	Notification of Acceptance

The screenshot shows the same software window as before, but the result grid now displays the output of Query 2. The grid contains three rows of data, each with four columns: Event_Type, Event_Name, Activity_Date, and Activity_Name. The buttons remain the same at the bottom.

Output of workbench for Query 2—

Result Grid				
Filter Rows:		Export:	Wrap Cell Content:	
Event_type	EventName	ActivityDate	ActivityName	
EventConference	event conference	2019-02-21	Paper Submission	
EventBook	event Book	2019-04-29	game of things	
EventJournal	event journal	2019-06-19	Notification of Acceptance	

*** ERROR HANDLING***

1) **Incorrect date** – for inputting date in incorrect format or in a sentence throw an error

Enter Event_Name

Enter EventWebLink for the event

Enter CFPTText for the event

Please select one of the Event type:
☐ EventConference
☐ EventJournal
☒ EventBook

JournalName

Journal Publisher

City

Country

Date

YYYY-MM-DD

Name	Affiliation	Role
Dr. Vasos Vassiliou	University of Cyprus	Program Chair
Dr. Stelios Timotheou	University of Cyprus	Program Chair

Click to Insert People

Activity Name	Activity Date (YYYY-MM-DD)
Games activity	this is text data (ERROR)

Click to Insert Activity

Insert role of a Person
☒ Yes
☐ No

Research Topic Name	Area
Some research	Engineering

Click to Insert Research Topic

Application Message

```

com.mysql.cj.jdbc.exceptions.MySQLDataTruncation: Data truncation: Incorrect date value: 'this is
at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLEx
at com.mysql.cj.jdbc.StatementImpl.executeUpdateInternal(StatementImpl.java:133
at com.mysql.cj.jdbc.StatementImpl.executeLargeUpdate(StatementImpl.java:2106)
at com.mysql.cj.jdbc.StatementImpl.executeUpdate(StatementImpl.java:1243)
at Connect.insertActivityHappens(Connect.java:88)
at Connect.insertActivityHappens(Connect.java:88)

```

Insert CFP

Return To Main Screen

Inputting date in wrong format throws an error

Enter Event_Name

Enter EventWebLink for the event

Enter CFPTText for the event

Please select one of the Event type:
☐ EventConference
☐ EventJournal
☒ EventBook

JournalName

Journal Publisher

City

Country

Date

YYYY-MM-DD

Name	Affiliation	Role
Dr. Vasos Vassiliou	University of Cyprus	Program Chair
Dr. Stelios Timotheou	University of Cyprus	Program Chair

Click to Insert People

Activity Name	Activity Date (YYYY-MM-DD)
Games activity	20199

Click to Insert Activity

Insert role of a Person
☒ Yes
☐ No

Research Topic Name	Area
Some research	Engineering

Click to Insert Research Topic

Application Message

```

com.mysql.cj.jdbc.exceptions.MySQLDataTruncation: Data truncation: Incorrect date value: '2019
at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLEx
at com.mysql.cj.jdbc.StatementImpl.executeUpdateInternal(StatementImpl.java:133
at com.mysql.cj.jdbc.StatementImpl.executeLargeUpdate(StatementImpl.java:2106)
at com.mysql.cj.jdbc.StatementImpl.executeUpdate(StatementImpl.java:1243)
at Connect.insertActivityHappens(Connect.java:88)
at Connect.insertActivityHappens(Connect.java:88)

```

Insert CFP

Return To Main Screen