

# Database Management System

## PROJECT REPORT

### Homework 4

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## PROJECT - CULTURAL FEST

We're making a web application for the college cultural fest through the use of HTML, CSS as frontend and MySQL and JSP for backend coding.

We're creating a database with 5 tables and allowing the user to execute queries to perform different functions.

## Database - FEST

### Tables -

- **Events** - eno (primary key), ename, ehead, cashprize
  - Stores information about different events
- **Location** - lno (primary key), lname, ename, duration, capacity
  - Stores information about the locations in campus that host the respective events
- **Sponsorship** - sno (primary key), sname, scompany, scontact, ename, amount
  - Stores information about the different sponsors for the events.
- **Registrations** - rno (primary key), rname, ename, contact, age, regfee
  - Stores information about the people who register for the events.
- **Members** - mno (primary key), mname, ename, mcontact, role
  - Stores information about the different members responsible for hosting the events.

## Implemented queries :

### Simple Queries :

- Insert a new record into the Events Table based on user input.  
*Insert into Events(eno, ename, ehead, cashprize)*  
*Values( ?,?,?,?)*
- Delete a record based on event name entered by the user  
*Delete from Events*  
*where ename = "?"*
- Display a record based on event name entered by the user  
*Select \**  
*from Events*  
*Where ename = "?"*
- Display all the information all the sponsors in the form of a table ordered by a column specified by the user  
*Select \* from Sponsorship*  
*order by ?*
- Update the amount of a sponsor based on sno and amount specified by the user  
*Update Sponsorship*  
*set amount = ?*  
*where sno = ?*
- Update duration of a location based on user input  
*Update location*  
*set duration = ?*  
*where lname = "?"*
- Delete a record from the Member's table where the last 3 letters of a member's name is specified by the user.  
*Delete from Member*  
*where mname like "%?"*

## Complex Queries :

- Display the Event Details ( event name and event head) and location details for a user who has registered for an event when he enters his name.

```
Select Events.ename,ehead, Location.lname
from Registrations,Location , Events
where Location.ename = Events.ename and Location.ename =
Registrations.ename and Registrations.rname = " + "\ " + "?" + "\ " + "
group by Location.lname
```

- Display the Event Details (event name and event head ) and number of members of an event specified by the user.

```
String query="select ehead,Events.ename, count(mno)
from Member , Events where Member.ename = Events.ename
group by Events.ename
Having Events.ename = " + "\ " + "?" + "\ "
```

- Display the details of Registrations ( rno, rname, contact, age and regfee), Event name and details of the sponsor's company for a member when he inputs his name if he belongs to the same event and is a member of the publicity team.

```
SELECT Registrations.*, scompany
from Member, Registrations,Sponsorship
where Member.ename = Registrations.ename and Member.mname = "?" and
Member.role="Publicity" and Sponsorship.ename=Registrations.ename and
Sponsorship.ename=Member.ename
```

- Calculate the profit of the event specified by the user using profit =sum of sponsor amount + sum of regfee - cashprize and display it along with event name, event head and cash prize

```
Select Events.ename, sum(regfee)+ sum(amount) - Events.cashprize as
profit,Events.ehead,Events.cashprize
from Registrations, Sponsorship, Events
where Sponsorship.ename = Events.ename and Registrations.ename =
Events.ename
GROUP BY Events.ename
having Events.ename = "?"
```

- Calculate which event has the maximum or minimum of sum of sponsor amount.

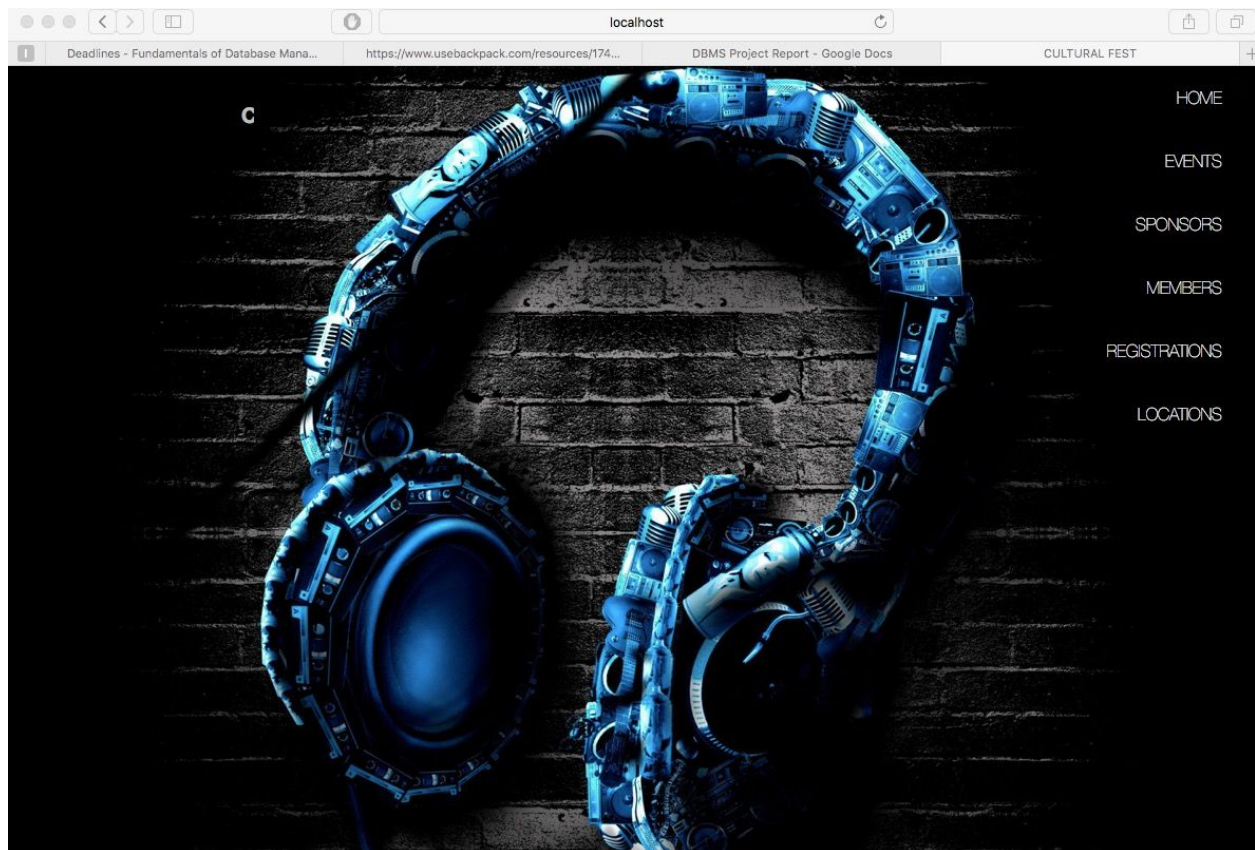
```

SELECT m, Sponsorship.ename
from Sponsorship, ((SELECT "?"(i) AS m
                    FROM ((SELECT sum(amount) AS i, Events.ename AS
                           FROM Sponsorship, Events
                           WHERE Sponsorship.ename = Events.ename
                           GROUP BY Events.ename) AS k))
                   as mm)
WHERE Sponsorship.amount = m

```

## Snapshots -

## Homepage



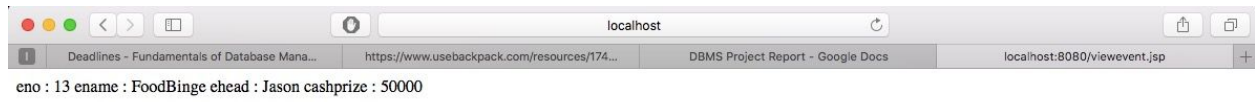
## Events ( Insert and Delete )

The screenshot shows a web browser window with three tabs: "Deadlines - Fundamentals of Database Mana...", "https://www.usebackpack.com/resources/174...", and "DBMS Project Report - Google Docs". The address bar shows "localhost". The page title is "EVENTS".

The main content area is divided into three vertical panels, each with a different background color and abstract pattern:

- INSERT (Red background):** Contains input fields for "eno" (value: 13), "ename" (value: FoodBinge), "ehead" (value: Jason), and "prize" (value: 50000). A "Submit" button is at the bottom.
- DELETE (Green background):** Contains an input field for "ename" (value: FoodBinge) and a "Submit" button.
- DISPLAY (Blue background):** Contains an input field for "ename" (value: FoodBinge) and a "Submit" button.

## Events ( Display )





# Members

MEMBERS

Event name

Submit

Event head

Event name

Number of members

DETAILS

Member name

Leonard

Submit

RNO.	Register Name	Event Name	Contact	Age	Register Fee	Sponsor Company
2	Gagan	Acapella	6653	21	1000	Apple
7	Lorelai	Acapella	3457	22	1000	Apple
8	Rory	Acapella	3458	20	1000	Apple
9	Luke	Acapella	5878	24	1000	Apple
2	Gagan	Acapella	6653	21	1000	LG
7	Lorelai	Acapella	3457	22	1000	LG
8	Rory	Acapella	3458	20	1000	LG
9	Luke	Acapella	5878	24	1000	LG
2	Gagan	Acapella	6653	21	1000	Whatsapp
7	Lorelai	Acapella	3457	22	1000	Whatsapp
8	Rory	Acapella	3458	20	1000	Whatsapp
9	Luke	Acapella	5878	24	1000	Whatsapp

Delete

Last 3 letters of the member's name

art

Submit

MEMBERS

Event name

Acapella

Submit

Event head

Event name

Number of members

Phoebe

Acapella

2

DETAILS

Member name

Submit

RNO.	Register Name	Event Name	Contact	Age	Register Fee	Sponsor Company
------	---------------	------------	---------	-----	--------------	-----------------

Delete

Last 3 letters of the member's name

Submit

[HOME](#)

# Sponsors

localhost

Deadlines - Fundamentals of Database Management Syst...https://www.usebackpack.com/resources/17431/downloa...DBMS Project Report - Google DocsSPONSOR

SPONSORSHIP

Order By

scompany

Submit

sno	sname	scontact	scompany	ename	amount
5	Marshal	4435	Amazon	Battle of Bands	80000
2	Ted	9987	Apple	Acapella	25000
4	Lily	3423	Fashion	Reverbe	800
8	Richard	2552	Flicker	Laser Tag	50000
1	Barney	7765	Google	Hackathon	987700000
6	James	5000	LG	Acapella	3000
3	Robin	8875	Microsoft	Battle of Bands	60000
10	Logan	7725	Ola	Verve	47000
7	Emily	2532	Paytm	Laser Tag	8000
9	Christopher	6622	Quicker	Verve	30000
11	Dean	2512	Uber	Reverbe	38000
12	Jess	7532	Whatsapp	Acapella	65000

UPDATE

sno

1

amount

90000

Submit



# Location

HOME

## Location

Username

Event name	Event head	Location
Acapella	Phoebe	Canteen

## UPDATE

Location Name

Duration

# Registrations

Registrations

Event Name

Event name	Profit	Event head	Cashprize

Official Sponsor

Max or Min

Sponsor Amount	Event Name
987700000	Hackathon

Registrations

Event Name

Event name	Profit	Event head	Cashprize
Acapella	-59719	Phoebe	443719

Official Sponsor

Max or Min

Sponsor Amount	Event Name

# Database

## Events

eno	ename	ahead	cashprize
3	Acapella	Phoebe	443719
6	Battle of Bands	Mike	887450
10	Cubix	Richard	87000
13	FoodBinge	Jason	50000
2	Hackathon	Ross	1331166
8	Laser Tag	David	1109305
1	PaNED	Rachel	1109305
7	Reverbe	Gunther	665388
9	Robowars	Bob	90000
11	Stageplay	Mona	66000
5	Stand up	Chandler	665588
12	Sumo	Janice	54000
4	Verve	Joey	221863

## Member

mno	mname	ename	role	mcontact
1	Sheldon	PaNED	Ambience	7787
2	Amy	Reverbe	Publicity	6587
3	Howard	Acapella	Public Relations	8723
4	Raj	Verve	Volunteer	5524
5	Leonard	Acapella	Publicity	9955
6	Penny	Reverbe	Ambience	9090
7	Bernadette	PaNED	Volunteer	2232
8	John	Robowars	Ambience	6182
9	Maverick	Cubix	Publicity	6158
10	Jon	Stageplay	Publicity	6152
11	Snow	Robowars	Public Relations	5682
12	Hirat	Reverbe	Ambience	1182

# Location

lno	lname	duration	capacity	ename
1	Amphitheatre	4	500	Battle of Bands
2	Labs	12	50	PMNED
3	C01	25	300	Verve
4	C21	2	200	Hackathon
5	Canteen	6	400	Acapella
6	C02	1	150	Stand up
7	Parking	6	1000	Reverbe
8	TTRoom	7	50	Laser Tag
9	S01	7	100	Robowars
10	S02	4	100	Cubix
11	CenterStage	8	1000	StagePlay
12	Garden	7	300	Sumo

# Registrations

rno	rname	ename	contact	age	regfee
1	Aakash	PMNED	8944	27	100
2	Gagan	Acapella	6653	21	1000
3	Suraj Prathik Kumar	PMNED	6643	20	100
4	Meet	Battle of Bands	6432	22	2000
5	Vyshakh	Stand up	6689	25	3000
6	June	Verve	3557	27	800
7	Lorelai	Acapella	3457	22	1000
8	Rory	Acapella	3458	20	1000
9	Luke	Acapella	5878	24	1000
10	Babette	PMNED	6757	22	100
11	Patty	PMNED	3427	25	100
12	April	Verve	7257	22	500



# Sponsorship

The screenshot displays an IDE interface with a database project named 'DBMS' located at '~\Desktop\DBMS'. The project structure includes a 'src' directory with a 'web' subdirectory containing various files like '12.jpg', '54.jpg', '56.jpg', '78.jpg', '99.jpg', 'Deleteevent.jsp', 'Events.css', 'Events.html', 'IIITDFEST1.css', 'IIITDFEST1.html', 'Insertevent.jsp', 'Location\_user.jsp', 'Member.jsp', 'Registration.jsp', 'Sponsor.jsp', and 'viewevent.jsp'. The 'Sponsorship' table is selected in the 'Database' pane on the right, showing its schema: 'eno' (int(11)), 'ename' (varchar(20)), 'cashprize' (int(20)), 'PRIMARY' (ename), 'Events\_eno\_index' (eno), 'Location' (Ino int(11), Iname varchar(20), duration varchar(20), capacity int(11), ename varchar(20), PRIMARY (Ino), Location\_Iname\_index), 'Member', 'Registrations', and 'Sponsorship' (sno int(11), sname varchar(20)). The 'Sponsorship' table is also visible in the 'Data' pane, showing 12 rows of data.

sno	sname	scontact	scompany	ename	amount
1	Barney	7765	Google	Hackathon	987700000
2	Ted	9987	Apple	Acapella	25000
3	Robin	8875	Microsoft	Battle of Bands	60000
4	Lilly	3423	Fashion	Reverbe	9000
5	Marshall	4435	Amazon	Battle of Bands	80000
6	James	5000	LG	Acapella	3000
7	Emily	2532	Paytm	Laser Tag	8000
8	Richard	2552	Flicker	Laser Tag	50000
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