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 memebers 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 ="?"

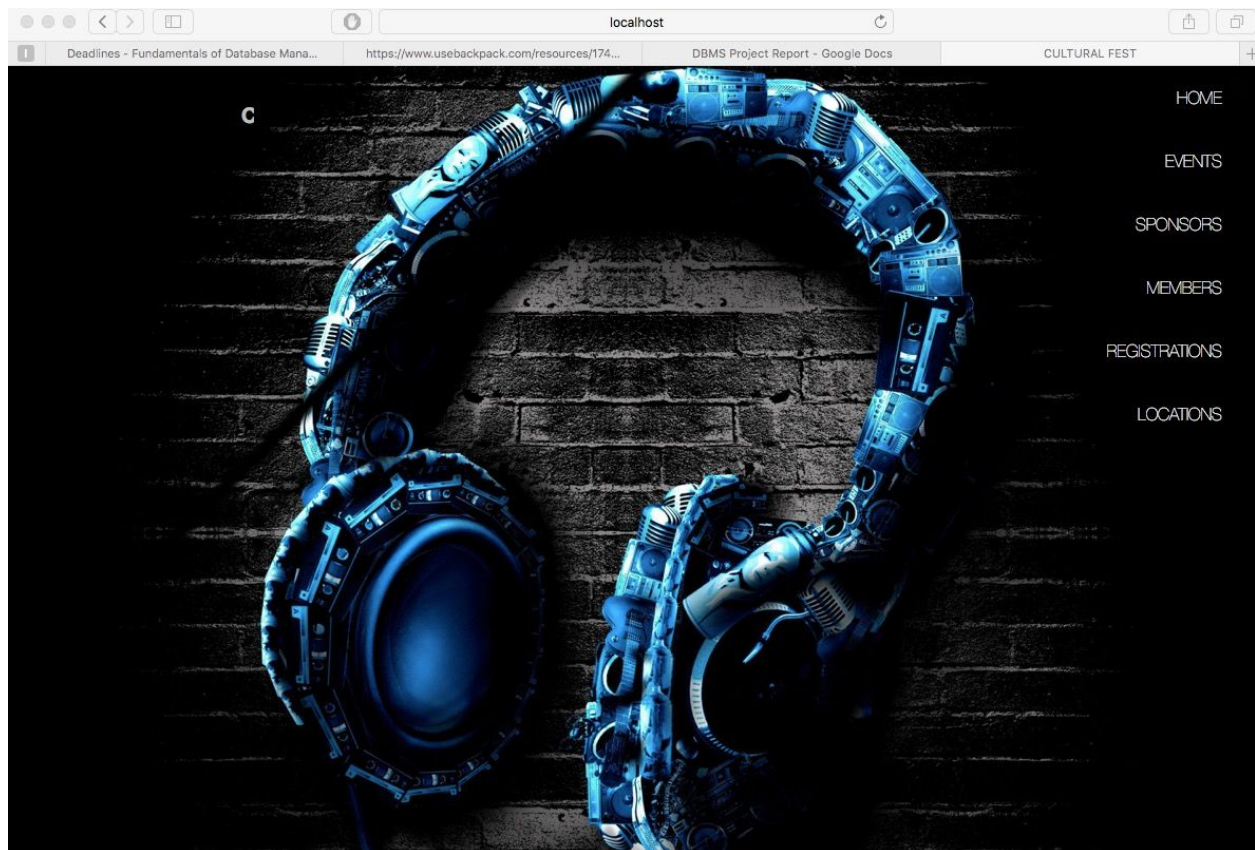- Calculate which event has the maximum or minimum of sum of sponsor amount.
  SELECT m, Sponsorship.ename
  from Sponsorship, ((SELECT "?"(i) AS m
  FROM ((SELECT sum(amount) AS i, Events.ename AS
  FROM Sponsorship, Events
  WHERE Sponsorship.ename = Events.ename
  GROUP BY Events.ename) AS k))
  as mm)
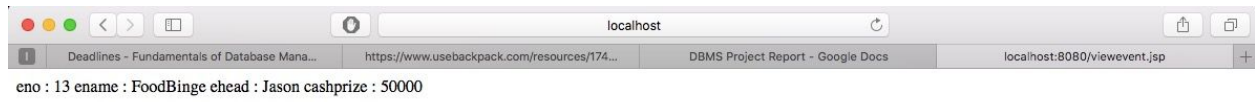 *WHERE Sponsorship.amount = m*

Snapshots -

Homepage

Events (Insert and Delete)

Events (Display)

eno : 13 ename : FoodBinge ehead : Jason cashprize : 50000

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

HOME

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

Sponsors

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	87000
7	Emily	2532	Paytm	Laser Tag	8000
9	Christopher	6622	Quicker	Verve	80000
11	Dean	2512	Uber	Reverbe	38000
12	Jess	7532	Whatsapp	Acapella	65000

UPDATE

sno [1]

amount [90000]

[Submit]

Location

Registrations

Registerations

Event Name [_____] Submit

Event name	Profit	Event head	Cashprize

Official Sponsor

Max or Min [_____] Submit

Sponsor Amount	Event Name
987700000	Hackathon

Registerations

Event Name [Acapella] Submit

Event name	Profit	Event head	Cashprize
Acapella	-59719	Phoebe	443719

Official Sponsor

Max or Min [_____] Submit

Sponsor Amount	Event Name

Database

Events

Member

Location

lno	lname	duration	capacity	ename
1	Amphitheatre	4	500	Battle of Bands
2	Labs	12	50	PWNED
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	PWNED	8844	27	100
2	Gagan	Acapella	6653	21	1000
3	Suraj Prathik Kumar	PWNED	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	PWNED	6757	22	100
11	Patty	PWNED	3427	25	100
12	April	Verve	7257	22	500

Sponsorship