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FundMe, an online fundraising platform helping to turn your dreams into reality

FundMe helps the next generation innovators to turn their ideas into realties making the world a better and a creative place. It allows users to post their projects and chose an appropriate tag for it so that other users can search all the projects related to that tag. Users can fund the projects of their interest and can pledge multiple values via multiple credit cards to the same project. Once project is successfully funded the team would work offline and the project status would be changed to execution indicating that they are working on the project and only the owner of the projects can post different project media like mp3, mp4 periodically indicating their progress. We assume the tag values are predefined and the user can choose multiple tag values to best describe his projects but this should be done at the time of project creation only as users are not allowed to modify tags once the project is posted. A user has a unique username which will be used for signing up also on login page the user will be asked to fill up email address, interest, hobbies and hometown but email id will be mandatory field (which can be used for sending password reset link or to send new updates and features of our website etc.) but will not appear in the sign up page.

Once the project is completed all the sponsors will be able to rate the project on a scale of 1 to 5. If the expected project completion date is passed but the project is not yet completed than sponsors can rate the projects lower once the user marks it as completed. All users can comment on any projects and can like any project but one user will be able to like one project only once whereas he can comment multiple times on the same project. Also users can follow other users so that they can instantly see all the updates made by the user they follow instantly.

Assumptions/Design Constraints –

1) In our ER design one user can have multiple credit cards and multiple users can share the same credit card.
2) User can pledge an amount which is greater than the max fund and in this case user will be charged the amount he pledged irrespective of it being greater than the max fund.
3) Tags are predefined and user can choose multiple tags at time of project creation but cannot modify them at a later stage.
4) One user can comment on the same project multiple times but can only like a project once.
5) One user can pledge on the same project multiple times with same or different credit cards.
6) We will be displaying the entire project details on a single page on our website and so we have not made UPDATE as a separate entity, so depending on contents in project and proj_media we will display our entire project on our webpage.
7) Timestamp of all the social networking features are stored with CURRENT TIMESTAMP as default value.
8) Users must enter all the credit card number while signing up as we have not allowed the users to add new credit card number at a later stage
9) In follow schema f_username follows username.

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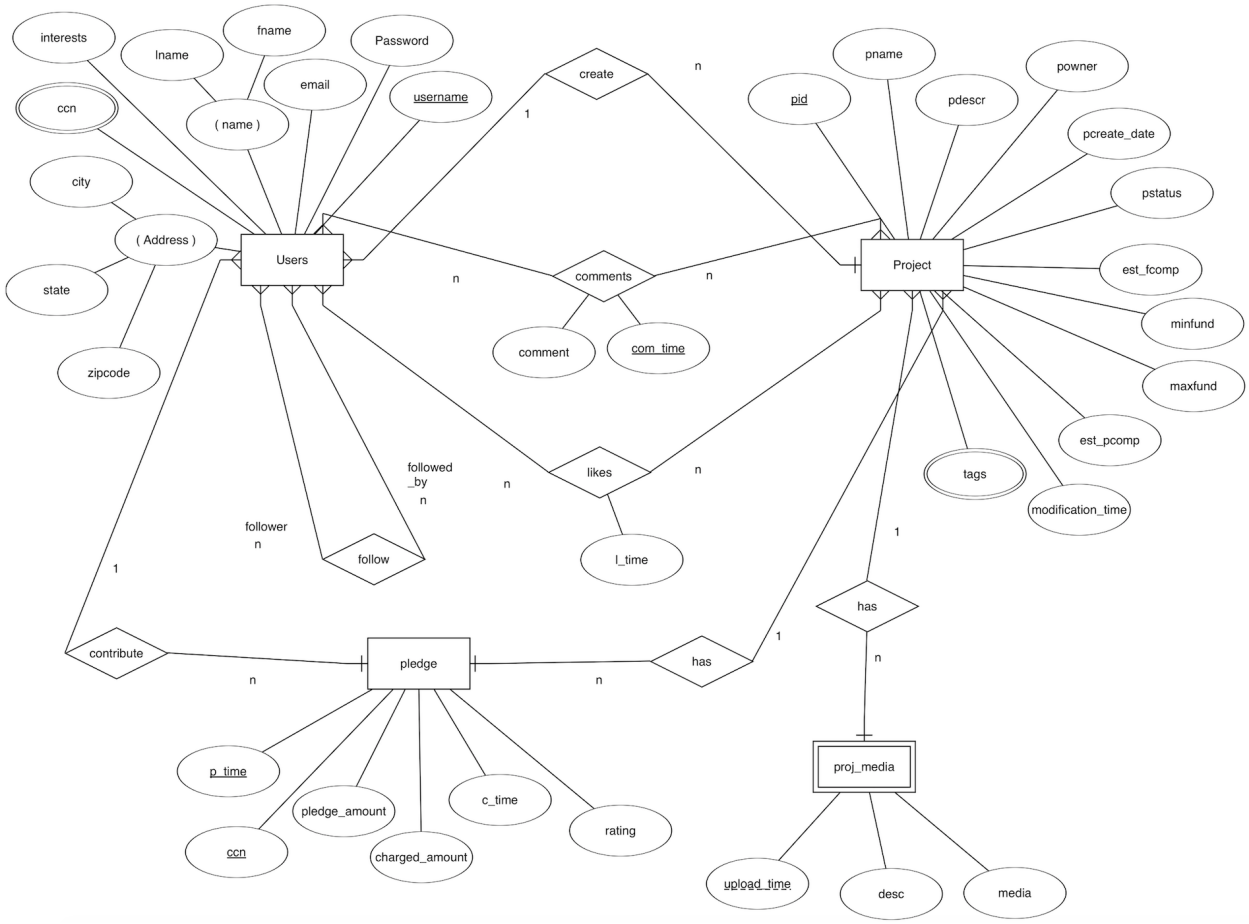
A) ER diagram:



Explanation of ER diagram -

1) In pledge table we have stored both the pledge value and charged value in order to reduce redundancy of data as creating separate table for this two events makes lot of unnecessary data to repeat, so charged_amount, c_time and rating will be initially set to null and will be modified according to the pledge amount of that user only when the max_fund is reached or estimated funding date is reached and fund gathered is more than the minimum required fund.
2) Also we have used modification_time as an attribute in Project table to track the time when the status of the project is changed either from pending to execution or from execution to complete the default value of pstatus will be set to PENDING upon project creation and default value of modification time will be NULL
3) Only proj_media which is a weak entitiy of project table and pstatus can be changed on a later stage.

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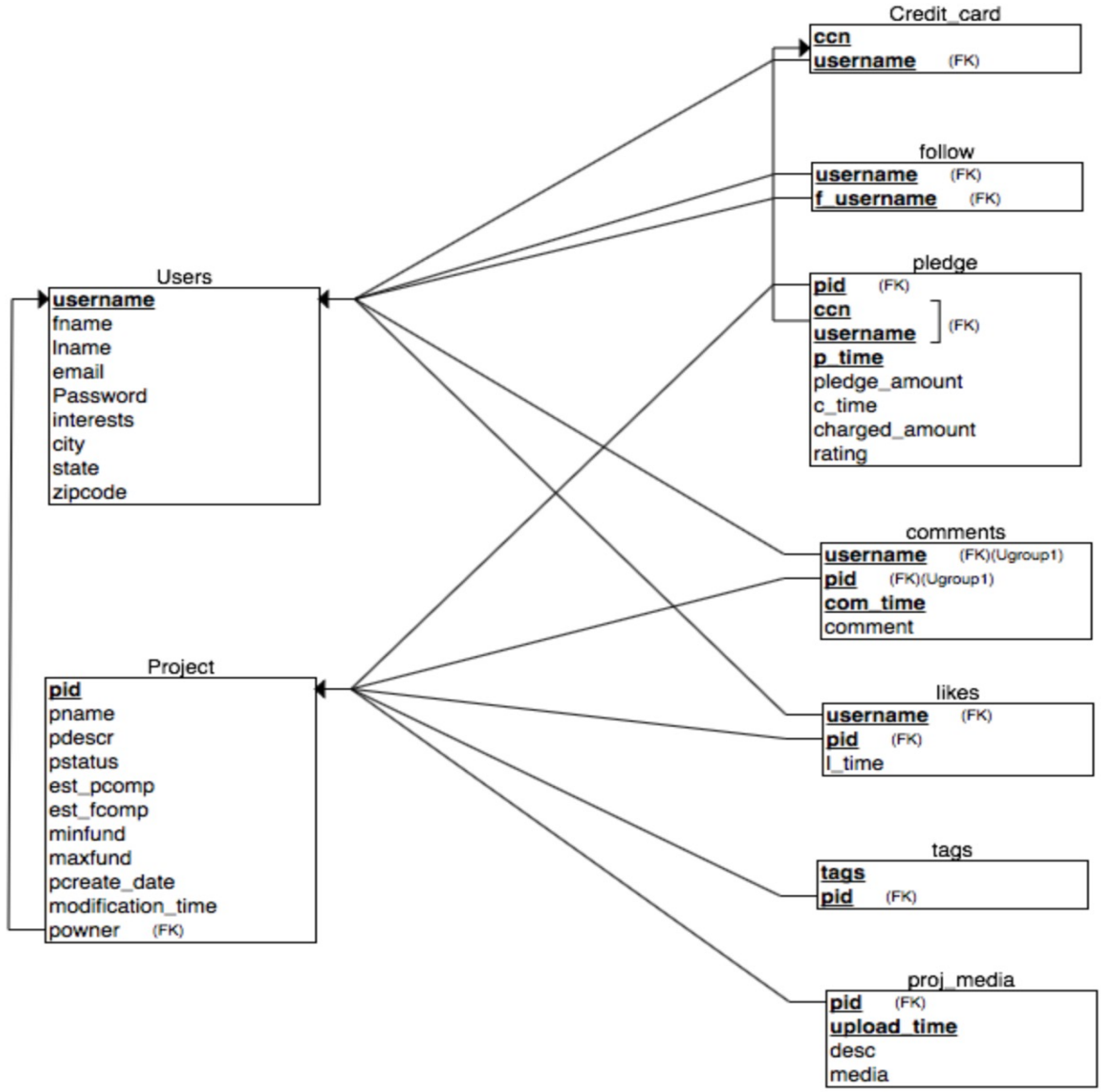
B) Relational Schema:



Relational Schema:

Users(username,fname,lname,email,password,interests,city,state,zipcode)
Projects(pid,pname,pdescr,pstatus,est_pcomp,est_fcomp,minfund,maxfund,pcrete_date,modification_date,powner)
Credit_card(username,ccn)
Follow(username,f_username)
Pledge(pid,username,ccn,p_time,pledge_amount,c_time,charged_amount,rating)
Comments(username,pid,com_time,comment)
Likes(username,pid,l_time)
tags(pid,tags)
Proj_media(pid,upload_time,desc,media)

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Foreign Key	**References**
Project(powner)	Users(username)
Credit_card(username)	Users(username)
Follow(username)	Users(username)
Follow(f_username)	Users(username)
Pledge(pid)	Projects(pid)
Pledge(username)	Credit_card(username)
Pledge(ccn)	Credit_card(ccn)
Comments(username)	Users(username)
Comments(pid)	Projects(pid)
Likes(username)	Users(username)
Likes(pid)	Projects(pid)
tags(pid)	Projects(pid)
Proj_media(pid)	Projects(pid)

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D) Database Creation:

```
-- -----------------------------------------------------
-- Schema Fund_Raising
-- -----------------------------------------------------
CREATE DATABASE Fund_Raising ;
USE Fund_Raising ;

-- -----------------------------------------------------
-- Table `Fund_Raising`.`users`
-- -----------------------------------------------------
CREATE TABLE users
(username VARCHAR(20) NOT NULL PRIMARY KEY,
fname VARCHAR(20),
lname VARCHAR(20),
email VARCHAR(50) NOT NULL UNIQUE,
password VARCHAR(15) NOT NULL,
city VARCHAR(10) DEFAULT NULL,
state VARCHAR(10) DEFAULT NULL,
zipcode INT(5) DEFAULT NULL,
interest VARCHAR(20) DEFAULT NULL);

-- -----------------------------------------------------
-- Table `Fund_Raising`.`projects`
-- -----------------------------------------------------
CREATE TABLE projects
(pid INT PRIMARY KEY AUTO_INCREMENT,
pname VARCHAR(25) NOT NULL,
pdesc VARCHAR(100) NOT NULL,
powner VARCHAR(20) NOT NULL REFERENCES users(username),
pstatus VARCHAR(20) DEFAULT "PENDING" NOT NULL,
est_pcomp DATETIME NOT NULL,
est_fcomp DATETIME NOT NULL,
minfund INT NOT NULL,
maxfund INT NOT NULL,
pcreate_time DATETIME DEFAULT CURRENT_TIMESTAMP NOT NULL, modification_time DATETIME
DEFAULT NULL);

-- -----------------------------------------------------
-- Table `Fund_Raising`.` pledge`
-- -----------------------------------------------------
CREATE TABLe pledge
(pid INT REFERENCES projects(pid),
username VARCHAR(20) REFERENCES credit_card(username),
ccn BIGINT(16) REFERENCES credit_card(ccn),
p_time DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
pledged_amount INT NOT NULL,
c_time DATETIME DEFAULT NULL,
```

```
charged_amount INT DEFAULT NULL,
rating int DEFAULT NULL,
PRIMARY KEY(pid,username,ccn,p_time));

-- ----------------------------------------------------
-- Table `Fund_Raising`.` likes`
-- ----------------------------------------------------
CREATE TABLE likes
(pid INT REFERENCES project(pid),
username VARCHAR(20) REFERENCES users(username),
l_time DATETIME DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY(pid,username));

-- ----------------------------------------------------
-- Table `Fund_Raising`.` comments`
-- ----------------------------------------------------
CREATE TABLE comments
(pid INT REFERENCES project(pid),
username VARCHAR(20) REFERENCES users(username),
com_time DATETIME DEFAULT CURRENT_TIMESTAMP,
comments VARCHAR(100),
PRIMARY KEY(pid,username,com_time));

-- ----------------------------------------------------
-- Table `Fund_Raising`.` follow`
-- ----------------------------------------------------
CREATE TABLE follow
(username VARCHAR(20) REFERENCES users(usernsme),
f_username VARCHAR(20) REFERENCES users(username),
PRIMARY KEY(username,f_username));

-- ----------------------------------------------------
-- Table `Fund_Raising`.`tags`
-- ----------------------------------------------------
CREATE TABLE tags
(pid INT REFERENCES projects(pid),
tags VARCHAR(20),
PRIMARY KEY(pid, tags));

-- ----------------------------------------------------
-- Table `Fund_Raising`.`proj_media`
-- ----------------------------------------------------
CREATE TABLE proj_media
(pid INT REFERENCES projects(pid),
media_path VARCHAR(50) NOT NULL,
med_desc VARCHAR(50),
upload_time DATETIME DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY(pid,upload_time));
```

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Sample Data –

users Table -

```
SELECT * FROM `users`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	username	fname	lname	email	password	city	state	zipcode	interest
Edit Copy Delete	aish	aishwarya	raut	aish@yahoo.com	amit	Queens	New York	11200	dance
Edit Copy Delete	BobInBrooklyn	Bob	Hall	bob@yahoo.com	hall	brooklyn	New York	11210	drama
Edit Copy Delete	glancyrod27	glancy	rodrigues	glancy27rod@gmail.com	glance	Brooklyn	New York	11209	music
Edit Copy Delete	Glory	Gloria	Rodrigues	gloriarod20@gail.com	vicky	NULL	NULL	NULL	NULL
Edit Copy Delete	hrishi	hrishikesh	garai	garaihrishi@ymail.com	garai	Brooklyn	New York	11220	networking
Edit Copy Delete	rasi	rasika	kalmani	rasi@gmail.com	rasikak	Manhattan	New York	11209	MOT
Edit Copy Delete	rohanbhi2	rohan	bhirangi	rohanbhirangi@gmail.com	rohanbhi	Brooklyn	New York	11220	AI
Edit Copy Delete	rohanmat	rohan	matthew	rohanmathew@gmail.com	rohanm	Brooklyn	New York	11220	networking
Edit Copy Delete	vns239	venus	sherathiya	vns239@nyu.edu	girls	Brooklyn	New York	11220	flirting
Edit Copy Delete	yash2411	yash	gandhi	yashgandhi2411@gmail.com	yash	Brooklyn	New York	11220	coding

---

projects Table –

Showing rows 0 - 12 (13 total, Query took 0.0004 seconds.)

```
SELECT * FROM `projects`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	pid	pname	pdesc	powner	pstatus	est_pcomp	est_fcomp	minfund	maxfund	pcreate_time	modification_time
Edit Copy Delete	1	jazz with tango	jazz music with the fusion of tango dance	glancyrod27	complete	2016-05-01 10:00:00	2016-04-28 13:00:00	300	400	2016-04-01 09:00:00	2016-04-30 12:00:00
Edit Copy Delete	2	classicalrock	classical songs with rock band	glancyrod27	complete	2016-08-20 10:00:00	2016-07-30 13:00:00	3000	4000	2016-07-10 09:00:00	2016-07-30 12:00:00
Edit Copy Delete	3	Real estate estimation	Real estate estimation using big data	glancyrod27	complete	0000-00-00 00:00:00	2016-11-28 13:00:00	1000	1500	2016-11-01 09:00:00	2016-12-01 09:00:00
Edit Copy Delete	4	rockthepop	rock music with the fusion of pop	glancyrod27	PENDING	2017-05-01 10:00:00	2017-04-28 13:00:00	100	200	2017-04-20 23:51:57	NULL
Edit Copy Delete	5	jazz with tango	jazz music with the fusion of tango dance	aish	PENDING	2017-04-30 10:00:00	2017-04-27 13:00:00	500	600	2017-04-20 23:51:58	NULL
Edit Copy Delete	6	PL5326	programming code for premise locator	yash2411	complete	0000-00-00 00:00:00	2016-09-28 13:00:00	900	1000	2016-09-01 09:00:00	0000-00-00 00:00:00
Edit Copy Delete	7	Fundraising website	Fundraising website using PHP	yash2411	complete	2016-04-01 10:00:00	2016-03-28 13:00:00	700	800	2016-03-01 09:00:00	2016-03-30 12:00:00
Edit Copy Delete	8	iris recognition	iris recognition for security	yash2411	complete	2016-08-20 10:00:00	2016-07-30 13:00:00	3000	4000	2016-07-10 09:00:00	2016-08-30 12:00:00
Edit Copy Delete	9	tourist data	developing website for tourist to search hotels	yash2411	complete	0000-00-00 00:00:00	2016-01-28 13:00:00	900	1000	2016-01-08 09:00:00	0000-00-00 00:00:00
Edit Copy Delete	10	parallel park	automatic car parking mechanism	yash2411	PENDING	2017-05-03 12:00:00	2017-04-28 12:00:00	1200	1500	2017-04-20 23:51:57	NULL
Console it Copy Delete	11	jazz	free jazz music	vns239	PENDING	2017-05-18 22:00:00	2017-04-27 22:00:00	50	500	2017-04-19 23:51:57	NULL
Edit Copy Delete	11	jazz	free jazz music support the cause	vns239	PENDING	2017-05-18 22:00:00	2017-04-27 22:00:00	50	500	2017-04-19 23:51:57	NULL
Edit Copy Delete	12	dancing robot	dancing robot for learning dance	vns239	failed	2017-03-18 22:00:00	2017-02-27 22:00:00	400	500	2017-02-02 20:00:00	2017-02-27 22:00:00
Edit Copy Delete	13	flying bot	flying robot to take pictures of top view	vns239	execution	2017-05-18 22:00:00	2017-04-18 22:00:00	50	500	2017-04-01 22:00:00	2017-04-15 12:00:00

Console

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credit_card table –

```
SELECT * FROM `credit_card`
```

Show all | Number of rows: 25 Filter rows: Search

+ Options

				username	ccn
Edit	Copy	Delete		aish	7234567891011121
Edit	Copy	Delete		BobInBrooklyn	8234567891011121
Edit	Copy	Delete		BobInBrooklyn	8234567891011122
Edit	Copy	Delete		glancyrod27	1234567891011121
Edit	Copy	Delete		glancyrod27	2234567891011121
Edit	Copy	Delete		hrishi	3234567891011121
Edit	Copy	Delete		rasi	6234567891011121
Edit	Copy	Delete		rasi	6234567891011123
Edit	Copy	Delete		rohanbhi2	4234567891011121
Edit	Copy	Delete		rohanbhi2	4234567891011122
Edit	Copy	Delete		rohanbhi2	4234567891011123
Edit	Copy	Delete		vns239	5234567891011121
Edit	Copy	Delete		yash2411	1234567891011121
Edit	Copy	Delete		yash2411	1234567891011122

follow table –

```
SELECT * FROM `follow`
```

Show all | Number of rows: 25 Filter rows: Se

+ Options

				username	f_username
Edit	Copy	Delete		BobInBrooklyn	aish
Edit	Copy	Delete		glancyrod27	BobInBrooklyn
Edit	Copy	Delete		glancyrod27	hrishi
Edit	Copy	Delete		glancyrod27	yash2411
Edit	Copy	Delete		hrishi	rohanbhi2
Edit	Copy	Delete		rasi	yash2411
Edit	Copy	Delete		rohanbhi2	rohanmat
Edit	Copy	Delete		rohanmat	aish
Edit	Copy	Delete		vns239	BobInBrooklyn
Edit	Copy	Delete		yash2411	rasi

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pledge table –

```
SELECT * FROM `pledge`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

←T→	pid	username	ccn	p_time	pledged_amount	c_time	charged_amount	rating
Edit Copy Delete	1	vns239	5234567891011121	2016-04-07 01:00:00	160	2016-04-28 13:00:00	160	5
Edit Copy Delete	1	yash2411	1234567891011122	2016-04-04 12:00:00	100	2016-04-28 13:00:00	100	4
Edit Copy Delete	1	yash2411	1234567891011122	2016-04-05 12:00:00	50	2016-04-28 13:00:00	50	4
Edit Copy Delete	2	rohanbhi2	4234567891011121	2016-07-12 08:00:00	2000	2016-07-15 13:00:00	2000	5
Edit Copy Delete	2	rohanbhi2	4234567891011122	2016-07-15 13:00:00	2000	2016-07-15 13:00:00	2000	5
Edit Copy Delete	3	aish	7234567891011121	2016-11-20 07:00:00	500	2016-11-28 13:00:00	500	5
Edit Copy Delete	3	hrishi	3234567891011121	2016-11-10 07:00:00	700	2016-11-28 13:00:00	700	4
Edit Copy Delete	6	aish	7234567891011121	2016-09-03 07:00:00	900	2016-09-28 13:00:00	900	5
Edit Copy Delete	7	hrishi	3234567891011121	2016-03-03 07:00:00	300	2016-03-28 13:00:00	300	5
Edit Copy Delete	7	vns239	5234567891011121	2016-03-05 07:00:00	400	2016-03-28 13:00:00	400	5
Edit Copy Delete	8	rohanbhi2	4234567891011121	2016-07-15 07:00:00	3000	2016-07-30 13:00:00	3000	5
Edit Copy Delete	9	hrishi	3234567891011121	2016-01-27 07:00:00	550	2016-01-28 13:00:00	550	3
Edit Copy Delete	9	rohanbhi2	4234567891011121	2016-01-20 07:00:00	500	2016-01-28 13:00:00	500	2
Edit Copy Delete	12	yash2411	1234567891011122	2017-02-10 12:00:00	200	*NULL*	*NULL*	*NULL*

comments table –

```
SELECT * FROM `comments`
```

Profiling [Edit inline] [Ed

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

←T→	pid	username	com_time	comments
Edit Copy Delete	1	yash2411	2017-04-20 23:57:36	nice idea and concept
Edit Copy Delete	2	vns239	2017-04-20 23:57:36	good project
Edit Copy Delete	3	hrishi	2017-04-20 23:57:36	wonderful
Edit Copy Delete	5	glancyrod27	2017-04-20 23:57:36	innovative and creative
Edit Copy Delete	8	glancyrod27	2017-04-20 23:57:36	this is the best comment I have came across
Edit Copy Delete	10	rohanbhi2	2017-04-20 23:57:36	nice
Edit Copy Delete	11	BobInBrooklyn	2017-04-20 23:57:36	this is unbelievable
Edit Copy Delete	13	rohanmat	2017-04-20 23:57:36	great research

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likes table –

```
SELECT * FROM `likes`
```

Show all | Number of rows: 25 Filter rows: Search this ta

+ Options

	pid	username	l_time
Edit Copy Delete	1	aish	2017-04-20 23:55:19
Edit Copy Delete	1	hrishi	2017-04-20 23:55:19
Edit Copy Delete	1	vns239	2017-04-20 23:55:19
Edit Copy Delete	2	hrishi	2017-04-20 23:55:19
Edit Copy Delete	2	rasi	2017-04-20 23:55:19
Edit Copy Delete	2	rohanbhi2	2017-04-20 23:55:19
Edit Copy Delete	2	rohanmat	2017-04-20 23:55:19
Edit Copy Delete	3	aish	2017-04-20 23:55:19
Edit Copy Delete	3	yash2411	2017-04-20 23:55:19
Edit Copy Delete	4	hrishi	2017-04-20 23:55:19
Edit Copy Delete	4	vns239	2017-04-20 23:55:19
Edit Copy Delete	5	rasi	2017-04-20 23:55:19
Edit Copy Delete	5	yash2411	2017-04-20 23:55:19
Edit Copy Delete	6	BobInBrooklyn	2017-04-20 23:55:19
Edit Copy Delete	6	glancyrod27	2017-04-20 23:55:19
Edit Copy Delete	7	vns239	2017-04-20 23:55:19

Console

tags table –

```
SELECT * FROM `tags`
```

Show all | Number of rows: 25 Filter

+ Options

	pid	tags
Edit Copy Delete	1	jazz
Edit Copy Delete	1	tango
Edit Copy Delete	2	classical
Edit Copy Delete	2	jazz
Edit Copy Delete	2	rock
Edit Copy Delete	3	Data Science
Edit Copy Delete	4	pop
Edit Copy Delete	4	rock
Edit Copy Delete	5	jazz
Edit Copy Delete	5	tango
Edit Copy Delete	6	electrical
Edit Copy Delete	7	automation
Edit Copy Delete	8	electrical
Edit Copy Delete	9	Data Science
Edit Copy Delete	10	automation
Edit Copy Delete	11	jazz
Edit Copy Delete	12	automation

Console

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proj_media table –

```
SELECT * FROM `proj_media`
```

Profiling [Edit inli

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

←T→	pid	media_path	med_desc	upload_time
Edit Copy Delete	1	/Users/glancyrodrigues/Desktop/1.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	2	/Users/glancyrodrigues/Desktop/2.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	3	/Users/glancyrodrigues/Desktop/3.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	4	/Users/glancyrodrigues/Desktop/4.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	5	/Users/glancyrodrigues/Desktop/5.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	6	/Users/glancyrodrigues/Desktop/6.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	7	/Users/glancyrodrigues/Desktop/7.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	8	/Users/glancyrodrigues/Desktop/8.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	9	/Users/glancyrodrigues/Desktop/9.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	10	/Users/glancyrodrigues/Desktop/10.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	11	/Users/glancyrodrigues/Desktop/11.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	12	/Users/glancyrodrigues/Desktop/12.jpg	image	2017-04-20 23:59:59
Edit Copy Delete	13	/Users/glancyrodrigues/Desktop/13.jpg	image	2017-04-20 23:59:59

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C) Queries:

1)

```
INSERT INTO users VALUES
('Glory','Gloria','Rodrigues','gloriarod20@gail.com','vicky',DEFAULT,DEFAULT,DEFAULT,DEFAULT);
```

Glory	Gloria	Rodrigues	gloriarod20@gail.com	vicky	*NULL*	*NULL*	*NULL*	*NULL*

2)

```
SELECT pname, pcreate_time as posting_time
FROM projects
WHERE LOWER(pstatus) = 'pending'
AND (LOWER(pname) LIKE '%jazz%'
        OR LOWER(pdesc) LIKE '%jazz%')
ORDER BY pcreate_time DESC;
```

+ Options

pname	posting_time
jazz with tango	2017-04-20 23:51:58
jazz	2017-04-19 23:51:57

3)

```
SELECT pl.username, SUM(pl.charged_amount) AS total_successfully_pledged_amount
FROM pledge pl NATURAL JOIN projects p NATURAL JOIN tags t
WHERE t.tags='jazz'  AND
        LOWER(p.pstatus) IN ('complete','execution')
GROUP BY pl.username
ORDER BY total_successfully_pledged_amount ASC;
```

+ Options

username	total_successfully_pledged_amount ▲ 1
yash2411	150
vns239	160
rohanbhi2	4000

4)

```
SELECT x.powner AS user_having_avg_rating_gte4
FROM (SELECT p.pid,p.powner, AVG(pl.rating) AS avg_rating
        FROM projects p NATURAL JOIN pledge pl
        WHERE powner IN (SELECT powner
                FROM projects
                WHERE LOWER(pstatus)='complete'
                GROUP BY powner
                HAVING COUNT(pid)>=3)
        GROUP BY p.pid,p.powner
         HAVING avg_rating >=4) AS x
GROUP BY x.powner
HAVING (x.powner,COUNT(*)) IN
    (SELECT y.powner AS user_having_avg_rating,COUNT(*) AS counter
        FROM (SELECT p.pid,p.powner, AVG(pl.rating) AS avg_rating
                FROM projects p NATURAL JOIN pledge pl
                WHERE powner IN (SELECT powner
                        FROM projects
                        WHERE LOWER(pstatus)='complete'
                        GROUP BY powner
                        HAVING COUNT(pid)>=3)
                GROUP BY p.pid,p.powner) AS y
        GROUP BY y.powner);
```

+ Options

user_having_avg_rating_gte4
glancyrod27

5)

```
SELECT c.comments
FROM follow f NATURAL JOIN comments c
WHERE f.f_username='BobInBrooklyn';
```

+ Options

comments
good project
innovative and creative
this is the best comment I have came across

6)
INSERT INTO projects VALUES
(NULL,'parallel park','automatic car parking mechanism','yash', DEFAULT, '2017-05-03', '2017-04-28',1200,1500,DEFAULT,DEFAULT);

10	parallel park	automatic car parking mechanism	yash2411	PENDING	2017-05-03 12:00:00	2017-04-28 12:00:00	1200	1500	2017-04-20 23:51:57	NULL

7)
INSERT INTO pledge VALUES
(9, 'rohanbhi2', 4234567891011121, '2016-01-20 07:00:00',500, DEFAULT, DEFAULT, DEFAULT);

9	rohanbhi2	4234567891011121	2016-01-20 07:00:00	500	NULL	NULL	NULL

Note: Since MySQL trigger does not allow to make update on the same table on which insert query is executed and since we have same table i.e. pledge for both pledge and charge amount we are not writing trigger to change the status of project when maximum fund is reached, this condition will be handled in PHP code.
Below event scheduler is to check only the condition for minimum fund and estimated funding completion date which will make corresponding modifications in projects and pledge table depending upon the condition

8)
```
DROP EVENT IF EXISTS event1;
DELIMITER $$
CREATE EVENT event1
ON SCHEDULE EVERY 1 SECOND
DO
        BEGIN
   UPDATE pledge
   SET c_time = CURRENT_TIMESTAMP, charged_amount=pledged_amount
   WHERE pid IN
   (select x.pid FROM
   (SELECT p.pid,p.minfund, sum(pl.pledged_amount) as total_pledge from projects p natural join pledge
pl where p.est_fcomp <= CURRENT_TIMESTAMP and lower(p.pstatus)='pending' group by p.pid) as x
            where x.minfund<=total_pledge);

   UPDATE projects
   SET pstatus='execution'
   WHERE pid IN
   (select x.pid FROM
   (SELECT p.pid,p.minfund, sum(pl.pledged_amount) as total_pledge from projects p natural join pledge
pl where p.est_fcomp <= CURRENT_TIMESTAMP and lower(p.pstatus)='pending' group by p.pid) as x
            where x.minfund<=total_pledge);
```

```
UPDATE projects
SET pstatus='fail'
WHERE pid IN
(select x.pid FROM
(SELECT p.pid,p.minfund, sum(pl.pledged_amount) as total_pledge from projects p natural join pledge pl where p.est_fcomp <= CURRENT_TIMESTAMP and lower(p.pstatus)='pending' group by p.pid) as x
        where x.minfund>total_pledge);

END;
$$
DELIMITER ;
```

Edit Copy Delete	4	rohanbhi2	4234567891011121	2017-04-20 08:00:00			50		NULL	NULL	NULL

4	rockthepop	rock music with the fusion of pop	glancyrod27	fail	2017-05-01 10:00:00	2017-04-21 13:00:00	100	200	2017-04-18 23:51:57	NULL

In the above example the pledged amount is less the minimum required fund amount and the estimated funding completion date is passed so the scheduler has changed project status to fail. Similarly, the scheduler will modify the project status to execution and populate details in c_time to CURRENT TIMESTAMP and charged_amount to pledged amount if the funding is successful.