

## **MYSQL UPDATE TO LINUX NOTIFICATION**

### **Problem definition:**

Changes made in the mysql database need to be notified to the linux desktop.

### **About:**

We need to know every changes that made in the database. And every time it takes a lot of time to check what are the changes that took place in the database. And think, What if the database is too big to know every change. In this document we took birthday table as input, and gets notified with the data in it.

### **Recommended versions:**

Mostly works in every linux distributions and also in every mysql versions.

We used :

- Linux: linux 17.4 ubuntu .
- Mysql : mysql 5.7.

### **Input:**

lets take birthday as notification Create a table with the columns (Name gives names to this column) and date(give DateofBirth to this column)

Name	date
Jahnavi	1997-09-02
Divya	1997-09-02
Reshma	1997-04-02
Uttej	1996-10-7
Venkat	1996-12-28
Gopi	1996-01-5
Purna sai	1996-09-14

### **Steps to do :**

- Mysql should be installed in your machine before you do this.

- Now we used shell script to give a sequence of mysql instructions, that acts as interface between both the mysql and linux.
- Create a shell script file with whatever name you want.
- Give mysql user and password in shell script.

```
Mysql_user = "root" Mysql_password = "*****"
```

- Database(spp-databasename) creation and its usage from shell script  
mysql -u \$Mysql\_user -p \$Mysql\_password -e "drop database if exists spp;create database spp; use spp;"
- Allocating database to a variable  
Dbname = "spp"
- Create a table and insert some values with name and date columns in it.  
mysql -u \$Mysql\_user -p \$Mysql\_password -d \$Dbname -e "drop table if exists dob;Create table dob(name varchar(30),date varchar(30));load data local infile 'inputdatafile to mysql table' into table dob fields terminated by ','"
- Create a table, as the output from the procedure will be invoked into this.
- mysql -u \$Mysql\_user -p \$Mysql\_password -d \$Dbname -e "drop table if exists dob;Create table dob(name varchar(30),date varchar(30));"
- Create a procedure in another text file, refer the below code and enter the given code below to the text file.

```
DELIMITER //
CREATE PROCEDURE day()
BEGIN
insert into dob1 select name,
if (day(date)=day(now())
and month(date)=month(now()),'IS CELEBRATING BIRTHDAY TODAY',
if (day(date)=day(adddate(now(),-1))
and month(date)=month(adddate(now(),-1)),'yesterday',
if (day(date) =day(adddate(now(),+1))
and month(date)=month(adddate(now(),+1)),'tomorrow','future'))))
from dob;
END //
DELIMITER;
```

- mysql -u \$Mysql\_user -p \$Mysql\_password -d \$Dbname -e < procedure text file path
- the above procedure takes name(column) from the table dob, and date column from the above queried procedure with the if conditions.
- if every time , we run the above procedure on dob(table), then the output of procedure will be added to the existing output file, which was the result of previous execution.

- So drop table,again create table, call procedure and send output to text file in linux

```
mysql -u $Mysql_user -p $Mysql_password -d $Dbname -e "drop table dob1; CREATE TABLE dob1 (name varchar(30) , day varchar(30)); call day();" 
```

- Again create a table

```
mysql -u $Mysql_user -p $Mysql_password -d $Dbname -e "CREATE TABLE dob1 (name varchar(30) , day varchar(30)); select * from dob1" > path of file to send output to text file.
```

- This prints the column data named with “IS CELEBRATING BIRTHDAY TODAY” to another file.

```
awk '$0 ~ /IS CELEBRATING BIRTHDAY TODAY/{print}' j.txt > k.txt
```

- Write notification which display the output for 5 sec with cake icon in it , and code as shown below:

```
notify-send -i cake.ico "Hey hi,Birthday Notification" "tail k.txt" -t 5000
```

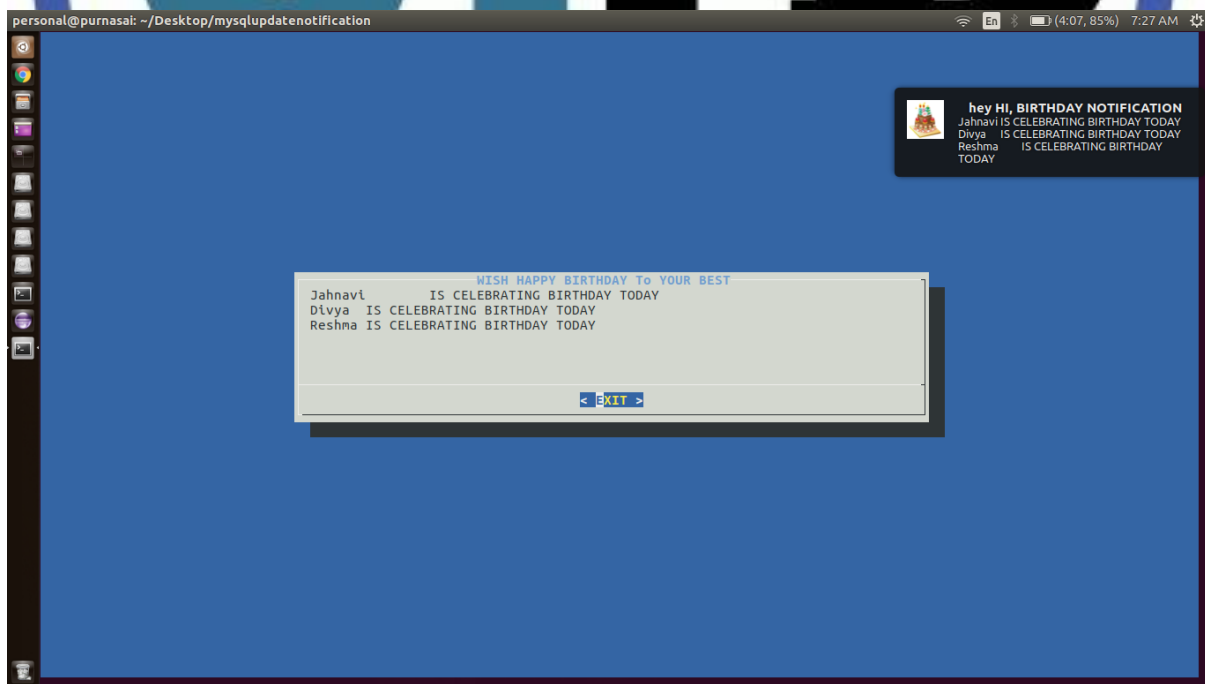
- Write a dailouge as given below:

```
dialog --title "WISH HAPPY BIRTHDAY To YOUR BEST" --box k.txt 10 80
```

- And run this shell script:

```
sh yourshellscriptname.sh
```

### Output:



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