SET EVENTS IN DATABASE AND GENERATE REPORT USING MYSQL & PHP

We are going to have a look on creating events (schedules) in database by doing one practical example and generating the report of database record in the pdf form usinf **fpdf.php**

> Lets discuss the events of the database first and find the answers to following questions: * How Events are created? * Where can we find events in database? * Are events can be created by both manually and through query method? * What are the types of events? * How many query can we write in events to perform an action on schedule time?

We will see the funcitonality of events by considering the following scenario:

> Let suppose you want the record of the user registration table to be backup into another table(let's say userbackup table) to reduce the load on the server. This can be made possible by creating an event which automatically transfers the user registration table record into the userbackup table. For this you have to create * **User/Registration Table** - to register users * **UserBackup Table** - to store backup data * **An event** - to schedule a time for transfering or backing up the user registration table data into the userbackup table.

By using **phpmyadmin** database we had created the following table

USER TABLE

Create the **user table** by the following sql query:

```
CREATE TABLE `user` (
 `id` int(28) NOT NULL AUTO_INCREMENT,
 `FName` varchar(128) NOT NULL,
 `MName` varchar(128) NOT NULL,
 `LName` varchar(128) DEFAULT NULL,
 `Email` varchar(128) NOT NULL,
 `Mobile` varchar(128) NOT NULL,
 `Password` varchar(128) NOT NULL,
 `DOB` date NOT NULL,
 `Gender` varchar(128) NOT NULL,
 `currenttime` datetime NOT NULL DEFAULT current_timestamp(),
 PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=30 DEFAULT CHARSET=utf8mb4
```

Insert some dummy data into the database and the resultant table along with the user record will look like this :

![alt text][user]

> Note : the currenttime field will contain the time at which the user was registered using NOW() functionin php;

USERBACKUP TABLE

Create the **user table** by the following sql query:

```
CREATE TABLE `userbackup` (
 `b_id` int(128) NOT NULL,
 `fname` varchar(128) NOT NULL,
 `mname` varchar(128) NOT NULL,
 `lname` varchar(128) DEFAULT NULL,
 `email` varchar(128) NOT NULL,
 `mobile` varchar(128) NOT NULL,
 `pswd` varchar(128) NOT NULL,
 `dob` date NOT NULL,
 `gender` varchar(128) NOT NULL,
 `currenttime` datetime(6) NOT NULL DEFAULT current_timestamp(6),
 PRIMARY KEY (`b_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
```

After running the above sql query a table with null data record will be created as shown below:

![alt text][userbackup]

> Now our task is to transfer the values from user table into the userbackup table automicatically For this create an event

CREATE EVENT

*On the navbar above in phpmyadmin click on the sql option and write the following query there:

```sql
CREATE EVENT `userbackup`
ON SCHEDULE EVERY 2 MINUTE
STARTS '2021-02-23 20:30:11'
ON COMPLETION PRESERVE ENABLE
COMMENT 'Archive table'
DO
BEGIN
INSERT INTO userbackup(b_id,fname,lname,email,mobile,pswd,dob,gender,currenttime)
SELECT id,FName,LName,Email,Mobile,Password,DOB,Gender,NOW()
FROM user
WHERE NOT EXISTS (SELECT b_id,fname,lname,email,mobile,pswd,dob,gender,currenttime FROM userbackup WHERE user.id=userbackup.b_id);
END
```