Database Manager – My SQL Query generator with Modern GUI – Android application

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Abstract— Database manager is Android application which allow users to access Database from smartphone with remote connection to database and here user can create tables from drag and drop editor. Any programmer can connect their databases with remote MySQL connection through database manager. User can manage multiple back ends of several domains with smartphone. User also update-delete tables and rows without writing queries and without using MySQL Clients. Database manager is based on PHP, Angular, mobile J Query, Java script with responsive view.In this Project all the modules are web based and all the pages are built with material design so user can also connect databases through web client (query transfer protocol). Data management has been extensively by many sectors across the globe. In the Database Industry it is not only beneficial to developers but also aids owners, employers, employees, IT companies and multiple other parties involved in the same. From our research we observed that Database manager applications can help in managing tables/records, making entity relationship management decisions and user receive better response services. Furthermore, it was seen that huge amounts of data generated by during database operations are too complex and voluminous to be +processed and analyzed by traditional methods. Here is where Operations Research techniques come in the picture. Operations Research provides the methodology and technology to transform these mounds of data into useful information for decision making. Hence, the combination of using Operations Research and Data Managing in the IT Industry has become exceedingly popular if not necessary. Here is Android application from which any programmer can connect the database is from anywhere with few simple steps. GUI provided by database manager is able to perform multiple operations very quickly a without writing queries.

Key words: Ajax, PhpMyAdmin, Angular.min,js, ng-model, ng-controller, ng-click, Left panel, Database Manager, Multicriteria Analysis, Database Integrity, Full Table

I. INTRODUCTION

Database Manager is a free software tool written in PHP, intended to handle the administration of MySQL over the web. Database Manager supports a wide range of operations on MySQL. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions.) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

Database manager is the Main Key Source to handle all queries through your smartphone .Here you can connect your Database Remotely and user can able to perform all the actions on database like insert, update, delete. With the help of drag and drop editors it is easy to made new tables.

Operations Research is a subject/concept that deals with the application of analytic methods to help make versatile and accurate decisions. It is used in a variety of fields be it programming, backend coding etc.

When it comes to Database Management, Operations Research can be used in assisting user database (primary function of a database) but also in Optimization of query related problems in MYSQL have received considerable attention during operating on smart phone but the combination of tables, rows and columns makes it's really complicated to view on users handy phone. Database Manager Helps user to show appropriate view accordingly on any smartphone, tablet or even in web view responsively which makes user-friendly application and it works efficiently on any android device with respect to dimension of users screen.

Data filters, that is the process of observing patterns in large amount data involving methods of data mining, statistics, and database systems ,has seen a boom in interest in many fields of applications including PHP, angular, web application, websites, hybrid applications etc. The primary reasons for the same can be cited as increasing amount of data available, the growing understanding that deeper analyses are far more valuable than simple summary statistics and advent of technology.

II. COMPARATIVE ANALYSIS TABLE

Technique	Use	Process
SQL Editor.	To Make Queries Related To Database.	Select Menu Then Select SQL Editor And Make A Query.
Query Generate And Execute.	With The Help Of PHP It Generates My SQL Queries And Executes Accordingly.	Select given option in menu And user don't need to write special code.
Operations - Insert, Update, Delete, Create.	No Need To Write Programs To Execute My SQL Queries.	All basic operations are event based.
Remote Connection	It Creates Remote Connection With Your Database In Server Side.	Remote connection has been done at the time of registration automatically.
Insert Data	This API Is Able To Insert Data In Your Table.	PHP services handle this.

Table 1: Comparative Analysis of Literature Review

III. PROPOSED WORK

Database manager gives developers a complete set of visual tools to create, edit, and manage SQL queries, database connections and objects.

The database manager lets developers build, edit and run queries, create and edit data, and view and export results. Color syntax high light, context sensitive help and auto-complete aids in writing and debugging SQL statements. And EXPLAIN plans can easily be gathered to help optimize queries. The SQL Editor provides:

1) Table Editor - easily edit data and commit changes using a simple grid format.
2) Results Window - execute multiple queries simultaneously and view text results, image and spatial views, and query performance statistics on individual tabs.
3) Export Results - export results data to common formats including CSV, HTML, and XML.

Database manager can visually select tables and fields to query, edit tables, create new tables and databases, and drop tables and databases.

The Database Connections Panel and Connections Wizard enables developers to create, organize, and manage standard database connections. Advanced users can use the Manage Connections dialog to enter connection parameters like IP address, port, username, and password, as well as easily create secure remote connections.

A. Use of Query Generator

MySQL Generator eliminates all the manual labor that you need to do behind writing the MySQL queries. As such, it instantly generates the following MySQL code:

SELECT Query
INSERT Query
UPDATE Query
DELETE Query

Intended Audience: Web Developers & Website Designers
Level of understanding: Basic, Intermediate
Requirements: PHP4+, MySQL database
Pricing: Free for both commercial & non-commercial use other information: Security features (such as escaping input, validation) are not included.

Database manager easy SQL query builder enables you to quickly build complex queries without any programming knowledge on the go. Building SQL queries has never been easier than with database manager simple, but powerful tool. We support all common SQL databases including MySQL, Oracle, SQL and MS SQL Server, among others.

Relational database. Relational databases consist of multiple objects called tables which have relationships, or links, between them. The data or information for the database are stored in these tables. Once all of the data is inserted into tables, the user can write queries to look at and analyze the data, glean insights and make critical business decisions. Once upon a time this required a vast understanding of coding. In 2015, however, database manager online SQL query builder enables anyone to build complex queries without any programming knowledge.

In following figure the architecture is give. Once user registered then some PHP services automatically uploads on to users file manager through their FTP. After that all the operations are performed by user is done with the help of smartphone .android application is strongly secured so user don't need to worry about confidentiality.
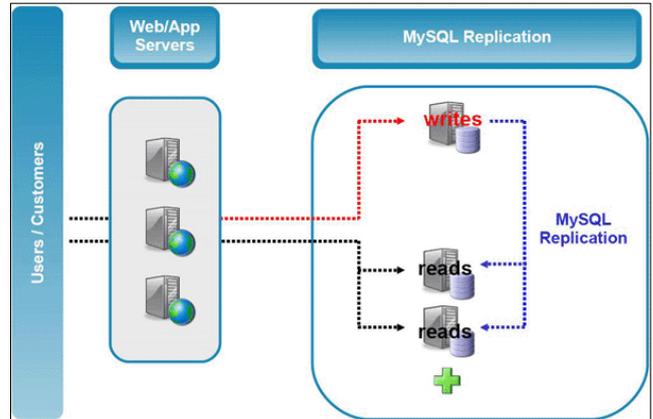

Fig. 1: Flow diagram of MYSQL query generator.

IV. APPLICATION OF MYSQL MANAGER

A. Execute and Save SQL statements

Database manager easy SQL query builder enables you to quickly build complex queries without any programming knowledge on the go. Building SQL queries has never been easier than with database manager simple but powerful tool. We support all common SQL databases including MySQL, SQL and MS SQL Server, among others. SQL editor extracts the context-sensitive features from the code and their relations to other code elements and auto-completes the current code with the proper elements according to the chosen pattern.

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Almost every keyword is provided to write proper query with proper pre define syntax of query so normal user can also write query according to their requirements.

B. Database Filters and Searching Techniques

Lots of new type of filters added to this application which is comparatively more advance and based on angular so most of query work solved using graphical UI. It reduce work to writing queries of MYSQL and gives us extra features to access database quickly using new material design framework based on latest hybrid technologies.

It makes searching something from huge amount of data lots easier than any other android application ever available on play store of Google.
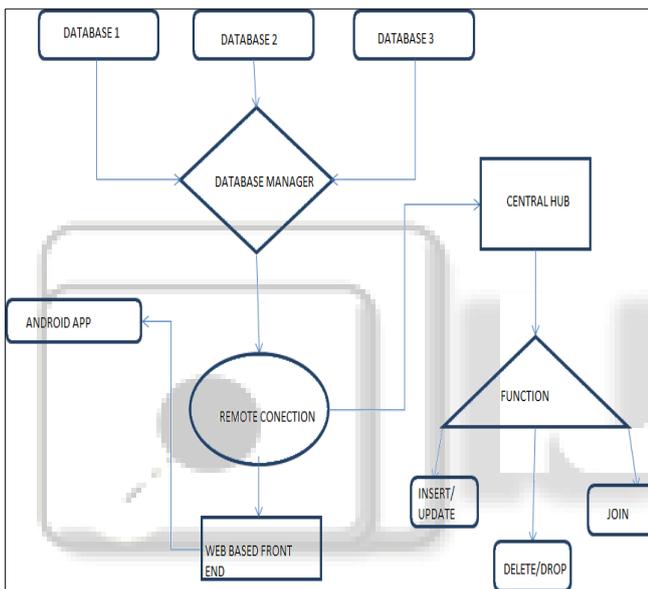
C. *Event based Query Generator*

Now a days no one can used to be very friendly with SQL editor everyone wants to work on event based programs which makes easier to build more complex queries without writing it.

With the help of PHP language it's possible to direct select functions from users screen and proceed for operation which is predefine inside program with suitable algorithms.

In fraction of minutes any user can do simple tasks like create, delete, insert, update records in database with event based mechanisms.

V. WORKING

VI. CONCLUSION

Database managing though has great importance in the area of backend of programming and a lot of scope, for now it is just an academic exercise with only a few success stories.

The field of information technology will reach great heights with proper implementation of database managing and researches.

This android app is light weighted and the data is store in online server hence it provide greater security. Query generator is a new feature in android application that helps you build highly customized.

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