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SQL

WEB-BASED INFORMATION SYSTEM FOR AUTOMATIC EVALUATION OF SQL QUERIES

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Abstract: Today, the use of databases is becoming more widespread. Definitely databases are complex matter for beginners in programming and information technology.

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“join”,

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LDAP

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Windows

Services, Active Directory

Microsoft Access.

Microsoft , Internet Information

Apache
 Linux Microsoft. Apache active directory,
 PostgreSQL Python.
 Apache Server 20
 Apache Software Foundation. HTTP web server -
 . -
 "Apache".
 Apache web server .
 Apache web server .
 .
 Apache ,
 , . ,
 ,
 , .
 Apache Directory open-source ,
 .
 .
 Active Directory directory services
 Windows . Active Directory
 Windows . Active Directory
 Group Policy Objects(GPOs)
 Windows .

MySQL PostgreSQL

Open Source

Supported platforms

Access Methods

ACID Compliance

Governance

Partitioning

Replication

Performance

Security

Concurrency Support

NoSQL Feature

Extensive Type System

Programming Languages Support

Joins

Open Source

Open Source

MySQL, Oracle open-source. GNU General Public License MySQL

PostgreSQL object-RDBMS PostgreSQL Global Development Group.

PostgreSQL

PostgreSQL MySQL Linux, Windows, Solaris OS X . Linux open source, . OS X Apple, Solaris Oracle, Windows Microsoft. MySQL FreeBSD OS. PostgreSQL HP-UX , Hewlett Packard.

ADO.NET, JDBC ODBC.

ADO.NET Application Programmer Interfaces, XML.

JDBC API JAVA , .

ODBC API .

PostgreSQL native C library

streaming APIs.

ACID Compliance

ACID (Atomicity, Consistency, Isolation, Durability)

. ACCID ,

, ,

. PostgreSQL ACID compliance ,

. MySQL ACID InnoDB NDB

Cluster Storage engines.

SQL Compliance

SQL compliance ,

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, ,

179 , Core

, PostgreSQL 160 SQL:2011.

MySQL .

. MySQL Oracle,

Postgres , PostgreSQL

Global Development Group.

Posgres

MySQL

MySQL Cluster,

PostgreSQL

MySQL

master-master,

master

master

standbytes

PostgreSQL

, standby, hot standby/streaming replication, bidirectional replication, logical log streaming replication and cascading replication.

: third-party/

OLTP/OLAP, Business Intelligence

, PostgreSQL -

, MySQL

dbms

PostgreSQL

SSL

MySQL Access Control Lists,

SSL.

/Concurrency Support

PostgreSQL MVCC,

MySQL MVCC InnoDB.

NoSQL

JSON NoSQL

PostgreSQL JSON, NoSQL

native XML, (key-value) HSTORE.

MySQL NoSQL.

Extensive Type System/

MySQL, PostgreSQL

PostgreSQL : C / C ++,
Java, JavaScript, .NET, Perl, PHP, Python, Ruby, Tcl

MySQL

: PHP, Perl, Python, Ruby, Java, C #, C / C ++

/Joins

PostgreSQL

MySQL,

MySQL

MySQL

PostgreSQL.

PHP Python

PHP Personal Home Page.

1994 .

CGI

C,

PHP:

Hypertext Preprocessor

Python

Python

OOP

Java.

PHP,

OOP,

Python PHP Python

PHP , Python

Python

Python GUI, PHP ,

80% , PHP

Wikipedia, Tumblr, Yahoo, Facebook . PHP

Python

Google

YouTube, Reddit, Instagram, Spotify

/Frameworks and

Content Management System

PHP

Laravel Symphony

Python

. Django Flask

WordPress, Magento, WooCommerce

PHP

Python

/Learning curve

Python ,

PHP ,

Apache *Nginx*

Apache

Nginx event-driven

Nginx Apache.

back-end. No Apache

Apache

Microsoft Word,

Nginx

Linux, OS X, Windows ,

, Ubuntu

python.

)

. Python

Apache,

LDAP

PostgreSQL

Ubuntu

ApacheDS Studio?

SQL

4 :

SQL

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<https://uk.godaddy.com/help/key-differences-between-mysql-vs-postgresql-123-92>

<https://www.2ndquadrant.com/en/postgresql/postgresql-vs-mysql/>

<https://www.quora.com/Which-is-better-PHP-or-Python-Why>

<https://www.upwork.com/hiring/development/php-or-python-for-server-side-development/>

<https://stackoverflow.com/questions/219110/how-python-web-frameworks-wsgi-and-cgi-fit-together>

<https://www.atlantic.net/managed-hosting/lamp-vs-lemp-choosing-apache-or-nginx-web-server/>

<https://www.python.org/>

<http://php.net/manual/en/intro-what-is.php>

<https://dev.mysql.com/doc/>

<https://www.postgresql.org/>

<http://directory.apache.org/studio/>

<http://directory.apache.org/apacheds/>

<http://ttd.apache.org/>