aws marketplace

MySQL

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Product Recap

MySQL

MySQL Recap

MySQL is a cost-efficient and scalable relational database management system widely used in web, mobile applications, and academic projects.

MySQL is utilized for backend operations, data analysis, reporting, financial transactions, and ERP databases. It supports deployment on local servers, Cloud, and Kubernetes. Its free, open-source nature along with strong community support make it popular among companies. MySQL's compatibility with multiple platforms and programming languages enhances its appeal. While it remains stable and easy to use, areas such as replication, clustering, and backup require improvement to better serve enterprise applications. Enhanced security, error messages, and monitoring tools are also desired for a better user experience.

What are the most important features of MySQL?

- Free and Open-Source: No licensing costs, perfect for budget-conscious projects.
- Compatibility: Works with multiple platforms and programming languages.
- High Performance: Efficient performance across large datasets.
- Scalability: Easily scales to meet growing business needs.
- Clustering and Replication: Ensures data availability and redundancy.
- Easy Installation: Quick setup process on various operating systems.
- Community Support: Extensive resources and community assistance.
- Cross-Platform: Operates seamlessly on different operating systems.
- Data Management Interface: Simplifies data handling and manipulation.

What are the benefits of using MySQL?

- Cost Efficiency: Reduce expenses with a free, open-source database.
- Scalability: Adapt to increasing data demands effortlessly.
- Performance: Handle large datasets with ease and speed.
- Community Support: Access a vast pool of knowledge and resources.
- Flexibility: Integrate with various platforms and languages for diverse use cases.
- Data Reliability: Clustering and replication for high data availability.

In multiple industries, MySQL supports internal applications, billing systems, academic teaching purposes, and ERP databases. Companies leverage MySQL for Cloud and local deployments, ensuring effective data manipulation and backend operations in diverse projects. Its role in financial transactions and reporting further emphasizes its versatility.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

"MySQL has helped my customers' database management by providing better RTO and RPO; the RPO can be less, RTO can be less, using this replication software, which is an inbuilt feature of the database itself, and you don't have to purchase an additional license for the replication."

Prabir Kumar Kundu

SR AVP–Presales Cloud & Platform Management Services at Path Infotech ltd

"The most valuable feature is the on-premises data encryption facilities."

Muzzamil Hussain

Assistant Vice President at National Bank of Pakistan

"It is a stable solution."

Naresh Kumar

Founder & Director at Hiindsight Group

"I find MySQL's relational data storage format very useful for data management. Our structure is well-defined and easy for end users and business stakeholders to read. I appreciate the tool's simplicity and ability to integrate with our backend tools."

SurajSachdeva

Data Engineer | Developer at Team Computers

"MySQL solution is overall stable."

Ravi Kant-Sharma

Technical Architect at a tech vendor with 10,001+ employees

"The initial setup is easy."

Prince Raju

Lead Data Analyst at Ernst & Young

"I would use MySQL for a medium project, with around 1,00,000 hundred thousand users, because of the indexing and stored procedures."

Shivaprasad C S

Programmer at Ministry of Interior

What users had to say about valuable features:

"The ML modules in MySQL are advantageous since they make data handling easy and quick at MNQM. I have a lot of experience with QA test sections on MySQL, and it aids in connecting with third-party programs effortlessly due to its adaptation capabilities.."

Ugur Demiriz
Product Lifecycle Management Consultant at CPV industrial Solutions

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Both MSSQL and Oracle are versatile tools in their own ways. If we compare MSSQL and Oracle, MSSQL is very handy for accessing data through SQL Server Management Studio. It allows programming, writing stored procedures, creating views, constraints, and triggers easily. There is some parity between SQL Server and Oracle, but Oracle is tightly coupled to its applications. PostgreSQL is better for handling JSON files and database migrations.

Ravi Kant-Sharma
Technical Architect at a tech vendor with 10,001+ employees

Read full review

“I find MySQL's relational data storage format very useful for data management. Our structure is well-defined and easy for end users and business stakeholders to read. I appreciate the tool's simplicity and ability to integrate with our backend tools.

Performance optimization techniques in MySQL are foundational and very useful. Many big database tools are based on their techniques. We use basic optimization methods like indexes and constraints, which should be set up early when designing the database schema. These optimizations are important for us and work well with MySQL..”

SurajSachdeva
Data Engineer | Developer at Team Computers

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“The most valuable feature is the on-premises data encryption facilities. By default, we can provide encryption, and this feature in MySQL is why we prefer it over other databases. The native encryption in MySQL encourages us to use this database model more frequently compared to Oracle and other databases.

With Oracle, we have to buy another solution for encryption and masking, but MySQL supports native encryption, which enhances our return on investment. It perfectly supports our ROI, and we have no issues with its functionality..”

Muzzamil Hussain
Assistant Vice President at National Bank of Pakistan

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"MySQL is a relational database and it is easy to install, handle day-to-day activities, and manage backups. It is compatible with a lot of other shared database solutions.

MySQL Workbench is the graphical user interface tool and it helps with development, data modeling, data migration, and day-to-day administration.

MySQL has cross-platform support for multiple operating systems. The backups on a Linux machine can be restored on a Windows machine, and vice versa.

MySQL supports multiple window displays and it is useful for developers and users who don't have much database knowledge.."

Satishbabu Gunukula, Oracle ACE
Sr. Tech Systems Architect at Intuitive

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“My opinion on MySQL is that it is the second most popular database after Oracle, and we are using MySQL for several of our customers. So far, my experience with MySQL is very good for organizations that consider database security and availability as priorities. These features are already available with MySQL. Security is inbuilt with the database, and clusters are also possible using MySQL. Availability and sharding features are present, which is why this is a larger database.

“I think its replication capabilities are very good.

“MySQL has helped my customers' database management by providing better RTO and RPO. The RPO can be less, RTO can be less, using this replication software. It's an inbuilt feature of the database itself, and you don't have to purchase an additional license for the replication..”

Prabir Kumar Kundu

SR AVP–Presales Cloud & Platform Management Services at Path Infotech ltd

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Other Solutions Considered

“I utilize Microsoft SQL Server (MSSQL) and MySQL for most of my databases. However, there are certain limitations in the new versions that impact support for certain functionalities. Due to these limitations, I have turned to MySQL as an alternative..”

Ruhul Amin
Executive Officer at Midland Bank Plc

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“In MySQL, we need to define every table beforehand. However, we don't need to do so in MongoDB. We can add a new row or column in MongoDB anytime, making it much easier. If you purchase MongoDB's plan, it supports many security features, and you don't need to check about security. They will handle everything..”

Prashob Km
Software Engineer / Team Lead at Techfriar

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"I used Dropbox when it was initially introduced. I had put so many documents into Dropbox, but I stopped using it. It has been a long time since I have used the product. I had used the product when it was launched, and the tool was giving two GB or three GB for free.."

Naresh Kumar
Founder & Director at Hiindsight Group

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"MySQL was one of the tools I was introduced to from the very beginning when I was in school. Though I knew about Microsoft SQL Server, the lectures in my school did not introduce me to it since more focus was placed on MySQL. I find MySQL easier to use compared to Microsoft SQL Server.."

Ismail Yushaw
Supervisor at GGoC1

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"We did look at MongoDB, but it wasn't what we needed, so we decided we go with something a little more conventionally established, and MySQL absolutely fitted the bill. We didn't need anything else. We got some colleagues who used Oracle, but it's expensive and quite difficult to use. ."

CharlesBrewer
Managing Director at NaMax Limited

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"From their competitors, they could learn from PostgreSQL. Recently there was a discussion where a customer was planning MySQL to PostgreSQL migrations, but finally, they decided to stop moving out from MySQL because of benefits such as sharding features, availability, and clusters. These are not apple-to-apple comparisons between both products. There are some other similar options such as MariaDB, but it's not that popular. Though the base is the same for MySQL and MariaDB, it is not as widely used.."

Prabir Kumar Kundu

SR AVP-Presales Cloud & Platform Management Services at Path Infotech ltd

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ROI

Real user quotes about their ROI:

"Cost-saving is not a significant concern, but focusing on project details is crucial. The project details provide exchangeable areas that can lead to cost savings.."

Ugur Demiriz
Product Lifecycle Management Consultant at CPV industrial Solutions

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"ROI is not applicable, as MySQL is open source and is free, so you could say it is only the investment of implementing the database in your environment.."

goforitandy
IT Consultant at Woohoogeeks

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"MySQL has had a moderate impact on our cost efficiency so far. We mainly use it for local development in our internal environments. For production, we use other cloud solutions. However, MySQL's impact on our operational productivity is significant. It's very reliable for all the solutions we're building.."

SurajSachdeva
Data Engineer | Developer at Team Computers

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"In the past, the product was free for users, which ensured that users could experience a high return on investment from the use of the solution. I don't know the licensing models attached to the solution currently, but the return on investment is very high if you use it for a very limited amount of time.."

Ismail Yushaw
Supervisor at GGoC1

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“Since we’re running it ourselves, it's our own flavor of MySQL, for dev, and QA, staging, production environments, that cost is basically a part of their running between this cluster. So I can't give you a fixed cost, but I can give you the cost of the entire cluster. There are many nodes in a cluster, and there's many different parts continuously running it. So to fully utilize the cluster, we put everything in it and just try to maximum each node.

So you can have a MySQL database beside a Java Microservice and Angular applications on the same node, and using the same kind of resources. So it would be difficult for me to kind of break it down. Obviously I'll do a deep dive, and I'll look at it, in terms of, what percentage of the CPU is being used by MySQL.

Now when it comes to the Cloud versions, obviously there's a fixed cost with that. So for example, one of the clients uses our database, they chose to go with the extra large version of the ECQ's, and there's a price for that. And you can just get a price quickly, and there's a whole chart of pricing there.

So that's based on clients and their comfort level. We can tell them exactly what performance we're requiring here, and then say, what is the minimal thing we need here, in terms of CPU resources and connections? So that's what you really need for just a cloud version of it. Once we define that, then we tell the client, this is what you really need. You can get away with a smaller version of the virtual machine by using something bigger. To be comfortable they decide to do it. So I'm dealing with the pricing, and the pricing is transparent.

I have all the separate pricing for the databases as well. And from that, you can figure out what the cost is.

There's no licensing fees here because it's open source. So the only fees are really just for using the Cloud resources, even if you go with managed or non-managed, you're still using the Cloud resources. You can be more frugal if you're running it yourself, versus what Google or Amazon will do for you. It'll be a little more pricey to go with them, but because it's a managed solution, you do have that peace of mind, because they're managing it for you. You just connect with it and just talk

with it.

But in our cases, we deploy it, we manage it, we back it up, we do all that stuff. So there's more work that we have to do, but a lot of time we eat up the cost because it's not an expensive thing to do. So it can be more cost effective running within the Coud, than in a non-managed version, self-hosted version.

At the end of the day, Google and Amazon are still making money, because it doesn't matter if you're running it yourself or it's managed, it's still using the Cloud. It's the same CPU and same RAM. .”

Patryk Golabek
CTO at Translucent Computing Inc

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Use Case

"I use MySQL as a metadata database to store information about our product and transactions from other platforms. We extract and store these transactions daily.."

SurajSachdeva
Data Engineer | Developer at Team Computers

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The primary use case for me is mainly to identify patterns. I am part of a data science team, and our job is to interpret user actions, such as when customers place orders on platforms like Amazon or eBay. We analyze patterns such as how many products are being quickly purchased, what additional items customers are buying, and where demand is surging.

Ravi Kant-Sharma
Technical Architect at a tech vendor with 10,001+ employees

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"We are using two or three types of databases in our organization, such as Oracle and MySQL. We usually use the MySQL database for the business applications that we develop in-house.."

Muzzamil Hussain
Assistant Vice President at National Bank of Pakistan

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"I have worked on migration projects between Power BI on Microsoft and SAP modules, which involve exchanging databases from Power BI on Microsoft to SAP modules.

Additionally, I have been involved in integration projects as a MySQL developer using Oracle SQL databases.."

Ugur Demiriz
Product Lifecycle Management Consultant at CPV industrial Solutions

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"MySQL was open-source at the beginning until Oracle acquired it in 2010. I started working with MySQL because I was an Oracle expert, having worked for Oracle for eight years. That's why I added MySQL to my skills as an administrator. MySQL is a powerful database engine that is easy to install, manage, and work with. It's ideal for fast application deployment and is cost-effective as well.."

MohamedKhalifa
Database and Middleware Technical Head at Riyadh Municipality

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"The primary use case for MySQL is to develop web applications, proof of concept projects with data collection, data manipulation, and data reporting on both Windows and Linux platforms.

We also use MySQL to store the data that we receive from different projects and build data models. We can also develop reports out of it.

MySQL is used for small application use only and not used for enterprise-level business applications.

MSQL is free open-source software. This is the most valuable aspect for any company as it helps to reduce the cost.."

Satishbabu Gunukula, Oracle ACE
Sr. Tech Systems Architect at Intuitive

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Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

"The solution's initial setup is very easy. For the first time, the solution's implementation will take some time. However, you can use it multiple times after you configure it.."

Prashob Km

Software Engineer / Team Lead at Techfriar

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"It's really easy to set up MySQL. On a scale from one to ten, where one is difficult and ten is easy, I rate the solution's initial setup an eight out of ten.."

Shivaprasad C S

Programmer at Ministry of Interior

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“I'd rate the initial setup as nine out of ten for ease, with ten being the easiest. It's very simple for beginners to set up because the documentation is thorough, and each step is well explained. The deployment usually takes minutes to hours, depending on the data volume we're putting into the database. It typically doesn't take longer than a day..”

SurajSachdeva

Data Engineer | Developer at Team Computers

Read full review

“It is easy to deploy the product. I deployed it on my own. The deployment took an hour. We deploy the product using Kamal. It uses Docker. The tool is deployed on the cloud. To deploy the solution, we just have to enter the password in the server and deploy it. It wasn't much of a hassle..”

James Kulundu

Data Analyst at KPMG East Africa

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“The initial setup was easy. I work in an agile way, which means coding and deploying quickly. We had a few internal users but many external users accessing the website, though not the back office.

The back office was developed over years. It's not just about having an idea and executing it; it's more about testing and adapting the process, unlike the waterfall method, where you end up with something that may not be immediately usable..”

Philippe Liénard

CEO at csm

Read full review

“The product's initial setup phase is easy since I use package management software. I mostly take care of the deployment phase with the help of Docker and other tools. If you decide to use the default deployment settings provided by MySQL, then it is a straightforward process to deploy it.

A lot of things have changed since I have deployed the solution. The solution is like a new product nowadays since you just need an application to deploy it presently. The other area where you need to take care of the solution is knowing how to secure it very well so that it becomes less vulnerable and prevents people from taking advantage of the solution.

Mostly, I go to the MySQL website to download the binaries, and I just deploy them on a Windows machine or another system, which is just a straightforward process. The product's installation phase is not much of a problem.

The solution is deployed on an on-premises model.

Earlier in my company, there were three people who used to take care of the deployment of the solution, but presently, I don't know who handles the deployment part..”

Ismail Yushaw

Supervisor at GGoC1

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Customer Service and Support

"I would rate the technical support for MySQL as very limited since normally everything is available on the blog post. I have never reached out to the support team or Oracle support team for MySQL-related support, so I cannot comment on this.."

Prabir Kumar Kundu
SR AVP–Presales Cloud & Platform Management Services at Path Infotech ltd

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"Our company has contacted the technical support of MySQL. It was very easy to get connected to them. However, it cost us a fortune. For SMBs in South Africa, a thousand or ten thousand dollars an hour is a lot of money. It was expensive, but it was worth it.."

Andre Visser
Technical Director at Metrofibre Networx

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“We have a local vendor available here in Pakistan, who provides service. As far as the principal is concerned, we do not directly communicate with them. We have a vendor here, so we have no issues and usually receive timely responses. I would rate customer service nine out of ten..”

Muzzamil Hussain
Assistant Vice President at National Bank of Pakistan

Read full review

“MySQL has been in the market for a long time, and its community keeps growing. As developers, we've gotten full support from them since we started using it. This includes help from their support team and software team and assistance with any technical issues we encounter..”

SurajSachdeva
Data Engineer | Developer at Team Computers

Read full review

“I've used technical support for several times. Most of the time, it was quite okay with quick responses. Once, I had performance issues. It took some time to convince them, but they guided me on improving performance by changing some database functions in MySQL. It was a longer process, but it was eventually resolved..”

Philippe Liénard
CEO at csm

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"When facing support issues with your server, the level of assistance is generally high. However, in certain technical support instances, when issues are raised and a ticket is generated, the support team sometimes provides a link for further information. From a customer perspective, this approach is not ideal, especially when dealing with critical problems such as database downtimes. The expectation is for more direct and personalized support rather than reliance on knowledge-base resources in urgent situations.."

Ruhul Amin
Executive Officer at Midland Bank Plc

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Other Advice

For MySQL, I hardly used it, but I can rate MSSQL and Oracle. I rate both nine out of ten. They are robust enough, though JSON handling could be improved. Meeting JSON handling needs would reduce the reliance on NoSQL solutions. I rate the overall solution a nine out of ten.

Ravi Kant-Sharma
Technical Architect at a tech vendor with 10,001+ employees

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"Oracle occupies it, so Oracle added more security features, such as password system improvements, host-based verification, and encryption, to the MySQL engine. It's developed and managed by a big company, and they keep adding new features.

I recommend another solution for large data, like billions of records. However, MySQL is a good option for data up to about fifty million records.

Overall, I rate the solution an eight out of ten.."

MohamedKhalifa
Database and Middleware Technical Head at Riyadh Municipality

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"Maintaining the database is a task. We take a weekly backup for each database so that we can upload it to the server if anything happens to the data. We created a cron job so that the data can be taken and then uploaded to a specific space so that

we can go back to the particular big data whenever we want. I prefer MongoDB for scalability because it's much easier to maintain MongoDB.

Just one person is enough to maintain the solution. The solution has good documentation available on Google.

Overall, I rate the solution six and a half out of ten.."

Prashob Km
Software Engineer / Team Lead at Techfriar

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"With respect to BAM, database activity monitoring, when we integrate BAM solutions, we face certain integration challenges. These are mainly compatibility issues, like when IBM Guardian is integrated with MySQL for database monitoring. Despite these challenges, the availability of support from IBM helps us to overcome them.

The product is highly recommended for its compatibility with other platforms like dot net framework. It easily integrates with in-house development functionalities and provides excellent relational database functionality.

Overall, I give it an eight out of ten.."

Muzzamil Hussain
Assistant Vice President at National Bank of Pakistan

Read full review

"I would assess the value of ACID compliant transactions in MySQL as good, pretty good.

“When it comes to spatial extensions, I haven't used spatial extensions for MySQL database, so I cannot comment at this stage.

“It's difficult to say how many user transactions MySQL handles for my customers who have applications. I don't have that figure at this stage, but I know big organizations are using MySQL where up to 10 to 20,000 transactions per five to six hours are processed.

“The main weaknesses of MySQL depend on the context. For critical workload and financial transactions, customers don't use MySQL; they use Oracle. Talking about our customers, I don't get any complaints that they are facing challenges with MySQL that make them want to move to other databases.

“There is no problem with their marketing strategy, as they have been very active for the last two to three years. Initially when Oracle took over this database, there was no dedicated team. Now there is a dedicated team, and they are doing very well with their marketing strategy for MySQL.

“Their implementation is very easy.

“I believe they have all the features which the segment of customers using this database requires. All the features are available, and MySQL is releasing new features regularly, such as enhancing the security postures. I don't think any new features are required at this stage.

“I rate MySQL a nine out of 10, and there is no limit to what they could do to make it even better. Whatever performance or new features you're going to add, somebody else will ask for different features..”

Prabir Kumar Kundu
SR AVP–Presales Cloud & Platform Management Services at Path Infotech ltd

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“In terms of our organization's data management strategy, especially if I talk about PLM software, which is about data management and can be regarded as the

core data management of the products that we make. When we are designing something, specifically a new product, it is a critical area, especially considering that I am in the energy sector. In the energy sector, when we are building huge turbines and other things, the data might have intellectual property aspects attached to it. Even within the company, one region cannot see other regions to the extent to which the product offers security. In my company, we use PDM and PLM from Teamcenter effectively.

MySQL is not a tool my company uses in production. When we create some small demos, we use MySQL. For production, we would use only Oracle because it is the most stable tool in the market.

When we install Teamcenter, we don't need to touch the database. We just need to make some references to figure out this is the database, and it automatically creates everything. The basic thing about PDM and PLM systems is that the user should never touch the database because people may corrupt the data model or do anything that will have a very bad impact on the system. Database modifications only have to be made to the PLM system. We are not supposed to interact with the database directly.

The tool is very lightweight, less expensive, and sometimes it is free. It is a very usable tool that is preferred by a lot of people. Only for production use, I may ask people not to use it.

Integration of MySQL is like how we don't directly integrate PLM with Oracle. We have to use PLM's APIs to talk to the database. As a part of the best practices, we should not directly integrate anything with the PLM database. Feature-wise, the integration capabilities of the product are easy to use. It is like any other tool where if there is a table, there is a property. If you want to map a property using any middleware, then we can easily do that.

I recommend the product to others. For medium-sized companies, MySQL is one of the best solutions. Medium-sized companies can choose not to go for Oracle, which is very expensive.

In terms of the value or benefits derived by our company from the use of the product, I would say that it is not very expensive and provides performance along

with scalability. The product can cater to the needs of customers ranging from 2,00,000 to 6,00,000 to 10,00,000 records. Even 20,00,000 records are fine, but after that, users may get into trouble. It is the best tool for mid-sized companies with a reasonable amount of data.

I rate the tool an eight out of ten.."

Naresh Kumar
Founder & Director at Hiindsight Group

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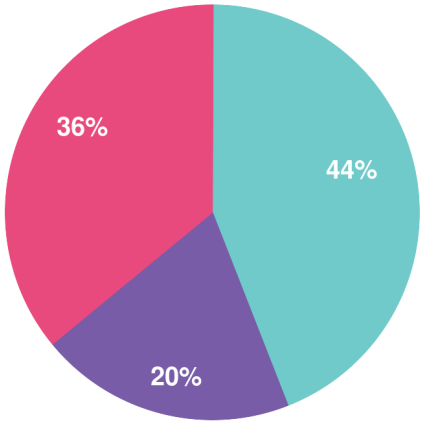

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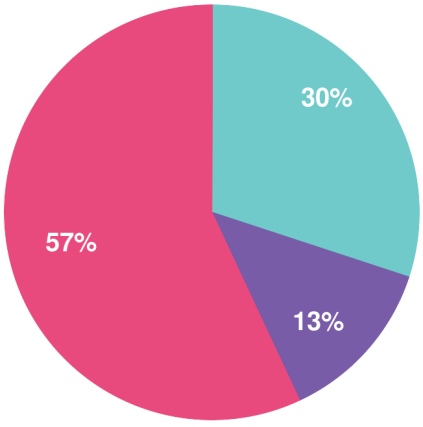

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