

aws marketplace

Liquibase

# Reviews, tips, and advice from real users



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# Product Recap



Liquibase

# Liquibase Recap

Liquibase is a solution for database change management that automates scripts and integrates with MySQL, MSSQL, and PostgreSQL. It simplifies database syncing, reduces risks, and supports SQL validation while effectively tracking schema updates in DevOps environments.

Liquibase offers a robust platform for automating database changes, effectively supporting integration with CI/CD pipelines. Users benefit from its capabilities to manage changesets and changelogs, ensuring controlled rollbacks and pre-deployment checks. Liquibase is highly valuable for managing database-as-code tasks like schema creation and maintaining migrations. Despite its strengths, areas like security, documentation on automation, and performance during diff operations, especially in large-scale situations, could see improvements. Integration challenges with Git, particularly with changelog file conflicts, are noted by users who also seek an enhanced newcomer experience.

## What are Liquibase's Most Important Features?

- Automation of database scripts: Streamlines database changes, reducing manual intervention.
- CI/CD integration: Enables seamless integration into existing DevOps pipelines.
- Changeset and changelog management: Facilitates organized tracking of schema changes.
- Rollback capabilities: Allows reverting to previous database states without raw SQL execution.
- SQL code validation support: Offers a rules engine to ensure database script integrity.

## What Benefits Should Users Look for in Liquibase?

- Database consistency: Minimizes the risk of inconsistent changes across platforms.
- Efficiency in operations: Enhances productivity through automated processes.
- Risk reduction: Supports controlled rollbacks and pre-deployment checks.
- Streamlined deployment: Facilitates integration with Docker and AWS for efficient deployment.

In DevOps environments, Liquibase is crucial for automating database changes and ensuring migrations are consistent across various platforms. Financial institutions and e-commerce companies frequently implement Liquibase to synchronize multiple databases via Jenkins pipelines, promoting reliable change management and operational efficiency.

# Valuable Features

Excerpts from real customer reviews on PeerSpot:

- ✓ “Liquibase has positively impacted my organization by maintaining database consistency across all environments.”



**Akashkhurana Hirana**

Senior Software Engineer II at Porch.com, Inc.

- ✓ “Liquibase has positively impacted my organization by significantly increasing deployment frequency for database changes.”



**Jack\_Mansur**

Security Solution Specialist at Splunk

- ✓ “Liquibase has positively impacted my organization by providing a way to manage database migrations instead of maintaining raw SQL, which comes with the issue of not being able to track certain schema updates or new table creations.”



**Verified user**

Software Engineer

✓ “It will be useful for teams to automate and reduce manual work.”



**Sudheer Kumar Jamjam**

Technical Lead Cloud DevOps Engineer at Deloitte

✓ “The solution is easy to use, and it has very clear documentation.”



**Tejaswi Mankala**

DC Analyst at Deloitte

✓ “They have some nice features around the automation of rule checking. They have a rules engine that checks the SQL code so that you can actually do your edit checks on the validity of the SQL code. If you don't want certain tables to be able to have certain things done to them, you can have it checked for that. It's a very flexible way to kind of do an automated peer review of the SQL code to catch things before you actually try to deploy it.”



**Verified user**

Director, Systems Engineering & Technology at a tech services company with 201-500 employees

✓ “Liquibase has positively impacted my organization by reducing the time spent syncing databases.”



**Verified user**

Devops Engineer at a tech vendor with 51-200 employees

## What users had to say about valuable features:

“It can be integrated with multiple databases like MySQL, MSSQL, and PostgreSQL. The biggest benefit is automating database scripts and manually backing up the database.

It has a rollback capability, but it has not impacted our operations. It's pretty normal. .”

**Sudheer Kumar Jamjam**

Technical Lead Cloud DevOps Engineer at Deloitte

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“I'm not very into data engineering, but Liquibase is the first tool I have worked on from a data perspective. We were using the SQL server, which our clients found somewhat complex. So, they opted for Liquibase because it is easy. The solution is easy to use, and it has very clear documentation..”

**Tejaswi Mankala**

DC Analyst at Deloitte

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“Liquibase's best features handle all the overhead of syncing. We do not have to plan any DML or DDL changes manually and apply them to the database. It also reduces the risk of inconsistent changes.

Liquibase reduces the risk of inconsistent changes in my experience by syncing the database easily, and there is no manual intervention required..”

**Verified user**

Devops Engineer at a tech vendor with 51-200 employees

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“The best features Liquibase offers include the DATABASECHANGELOG table, which is deceptively simple but is the foundation of everything. Every change that has ever been applied is logged there, including who wrote it, when it ran, which environment, and the checksum.

“Having that detailed tracking from Liquibase definitely helps me and my team day-to-day, making troubleshooting or audits easier.

“Drift Detection is the other feature I would fight for, as the moment someone makes a manual change to a database outside the pipeline, it shows up. In a regulated environment, that is not just useful, it is necessary..”

**Jack\_Mansur**

Security Solution Specialist at Splunk

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“The best features Liquibase offers include CI/CD integration, which we really appreciate because we didn't have a lot of issues integrating it into our existing CI pipelines, and the changeset and changelog, which are the source of truth that effectively tell us how the database changes are taking effect.

The CI/CD integration helped my workflow by improving visibility with the changelog and changeset. For the CI part, Maven and Gradle builds are already available, so we just use the Maven plugin and it was pretty straightforward.

There is something called Liquibase Validate as well, which helps with pre-deployment checks. We use the update SQL command for dry-run approvals.

Liquibase has positively impacted my organization by providing a way to manage database migrations instead of maintaining raw SQL, which comes with the issue of not being able to track certain schema updates or new table creations. With Liquibase, you have that history through the changelog and changeset tables, which maintain that history of changes. .”

**Verified user**

Software Engineer

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“The best features Liquibase offers include the database rollback mechanism, open source availability at no cost, and the ability to connect to all relational databases including MySQL, SQL Server, and PostgreSQL. Liquibase provides a rollback mechanism, transaction and lock management, database version control, and change tracking. It maintains a history table in one of the schemas that records which changes have been applied and which changes remain pending. If I need to migrate from PostgreSQL to MySQL in the future, I only need to change the URL and credentials without modifying the database structure, as Liquibase handles everything automatically. Liquibase has a vast community with widespread usage, particularly with Spring Boot microservices applications.

“Out of all these features, I rely most on database version control in my daily work to maintain a history of when I added columns or tables. The rollback support is excellent and maintains consistency across all environments including development, staging, and production. Liquibase provides a feature to check database differences across multiple environments in QA, development, and production. I can easily compare databases or changes between development and QA environments using this feature.

“Liquibase integrates easily with CI/CD tools including Jenkins, GitHub Actions, and GitLab with extensive support for these integrations. Liquibase has positively impacted my organization by maintaining database consistency across all environments. Inconsistent databases increase debugging time for engineers and associated costs, and can impact users. The primary benefit Liquibase provides is database consistency, ensuring a consistent database across all environments..”

**Akashkhurana Hirana**

Senior Software Engineer II at Porch.com, Inc.

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# ROI

Real user quotes about their ROI:

“It will be useful for teams to automate and reduce manual work. It's not only for one specific team; it's across the team.

We saw tangible benefits from using Liquibase in terms of costs and resource savings.

We reduced our manual intervention by not having to reach out to multiple teams. For example, when executing scripts, we had to reach out to the database team every time we developed a new script to deploy it.

By using Liquibase, we write the script and compile it. If the build succeeds, we go back to our deployment tool and update our Active Directory so that it will be deployed into the desired environment. This reduces a lot of manual intervention..”

**Sudheer Kumar Jamjam**

Technical Lead Cloud DevOps Engineer at Deloitte

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# Use Case

“I have worked on the Liquibase commands, Liquibase updates, Liquibase storeback, and some basic commands from Liquibase. We were using the Docker image installed from the AWS CI/CD, downloading this Liquibase image, and updating the command from AWS DevOps..”

**Tejaswi Mankala**

DC Analyst at Deloitte

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“My main use case for Liquibase is database change management inside our CI/CD pipelines. Before Liquibase, someone would have to manually run SQL scripts against the database and hope for the best..”

**Jack\_Mansur**

Security Solution Specialist at Splunk

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“My main use case for Liquibase is syncing different databases. I have an RDS cluster with different databases, and when there is a change in one database, I sync the other databases with the same changes.

I created a Jenkins pipeline with designed workflows. Using that pipeline, if there is a change in one database or multiple DDL or DML changes occur, developers can use the pipeline to make changes directly in one database and sync to other databases..”

**Verified user**

Devops Engineer at a tech vendor with 51-200 employees

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“My main use case for Liquibase is database-as-code, which we use for creating table schemas, maintaining migrations, and ensuring that in production, if rollbacks happen, then it's more controlled than running raw SQL.

I can give you a quick specific example of how I've used Liquibase for migration. Although we have not used it for rollbacks until now, we do use it for managing our scripts during migration.

Liquibase is a database-as-code provider, and that is pretty much how we use it. .”

**Verified user**

Software Engineer

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“My main use case for Liquibase is version control of database schema, automatic migration during application startup, and rollback support. It provides environment consistency and maintains the same database across development, testing, production, or SIT environments. Liquibase is configurable with many databases including PostgreSQL, MySQL, Oracle, and SQL Server. I use Liquibase with Spring Boot applications, which makes it function as a version control system for the database.

“A specific example of how I have used Liquibase in one of my projects occurred when we started a project from scratch with new requirements. We had a requirement for a notification table and needed to add new columns to existing tables. I maintained the database schema as a versioned component by writing Liquibase scripts to create a new table and alter an existing table, with each change in separate script files. During application startup, these scripts executed automatically if they had not been executed previously in the database, maintaining consistency. Regarding rollback, when I wrote a script to add an index to a column in a table that passed in the development environment but failed in the QA environment, Liquibase supported rolling back the changes that had been executed in one of the environments.

“I use Liquibase daily with Spring Boot applications and microservices, placing the migration files in the application. Liquibase acquires the lock when altering a table to add a new index, so I typically schedule these changes during off-business hours to avoid impacting customers..”

**Akashkhurana Hirana**

Senior Software Engineer II at Porch.com, Inc.

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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 easy if we use the Docker version. We have done a POC on our local tool. It was easy to install Liquibase in our local CLI..”

**Tejaswi Mankala**

DC Analyst at Deloitte

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“The advice I would give to others looking into using Liquibase is that the initial setup might require some time and extra configuration file changes, but that time investment is worthwhile because Liquibase is very helpful when the database is complex and changes occur frequently..”

**Akashkhurana Hirana**

Senior Software Engineer II at Porch.com, Inc.


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“For the very first time, the initial setup was a medium complex. One thing we faced issues with is that **Liquibase does not show the exact error**, which added to the complexity.

Suppose it fails with an error. It won't display the exact error on the CI side. For example, if you integrate Liquibase with Jenkins and your database scripts fail due to syntax errors, it won't show the exact error. It's not user-friendly in that aspect..”

**Sudheer Kumar Jamjam**

Technical Lead Cloud DevOps Engineer at Deloitte

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# Customer Service and Support

“Technical support has been great. They helped us all the way through the initial implementation and have always been very helpful. We're very satisfied with their service. They are always very responsive..”

**Verified user**

Director, Systems Engineering & Technology at a tech services company with 201-500 employees

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## Other Advice

“Liquibase is overall good software, but for first-time users, it could be more intuitive. Everything else works well. I would rate this review as a six..”

**Verified user**

Devops Engineer at a tech vendor with 51-200 employees

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“We were not able to delete some of the tables because of a security issue. We reached out to Liquibase because we thought the issue was from the Liquibase side, but it was from our end. We restarted the security team from our organization, which sorted our issue. My last project was a finance project, and they were relying on Liquibase only for database deployments.

I would recommend the solution to other users. Liquibase is very easy to use if you do CI/CD deployment for the database. The solution's commands and documentation are very easy to understand. The solution is very easy to learn, and I was able to learn it in two weeks. Liquibase is a user-friendly open-source tool.

Overall, I rate the solution a seven out of ten..”

**Tejaswi Mankala**

DC Analyst at Deloitte

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“I would recommend using it. To learn Liquibase, one should have some database knowledge. If the person is from a DBA background, they would be able to learn quickly. But if they are from an application or infrastructure role, it's medium

complex.

Before getting started, you should thoroughly go through the documentation and follow the latest changes deployed by the Liquibase product team.

Basically, when using the product, you should be able to understand it and stay updated on the latest releases.

Overall, I would rate the product a nine out of ten. Organizations should have this kind of tool to reduce manual intervention. The one point they could improve on is documentation, which they haven't clarified, and they need to work on that a lot..”

**Sudheer Kumar Jamjam**

Technical Lead Cloud DevOps Engineer at Deloitte

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“We're partners with Liquibase. We have a close relationship with them and with IBM.

There was a company called Datical that provided a third-party package that integrated with UrbanCode to handle database changes. There's also a Liquibase open source project that provides capabilities like that. Datical just recently changed their company name to Liquibase.

We're using one of the most recent versions of the solution.

I'd warn other companies that it's a transformation of how you do things. You've got to take into account the people aspect of changing their thinking and their processes. Not every organization is as flexible or adaptable as you might think they would be to a new technology change. It really changes a lot of things such as trusting and allowing the tool to do things that you're doing manually now. I'd advise that new users don't forget about the process transformation that has to occur. It's not just the technical transformation, it's a process transformation.

Overall, I'd rate the solution ten out of ten. It's done everything we've needed it to do..”

**Verified user**

Director, Systems Engineering & Technology at a tech services company with 201-500 employees

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“In terms of features and improvability, Liquibase is the best option in the market to maintain database version control.

“Regarding Liquibase's AI capabilities, I think it provides additional solutions for security purposes, but I have not used those features. My use case has focused only on database consistency. For database security and governance, Liquibase keeps production data safe with controlled schema changes and separates duties by

designating which changes should occur in development, production, and QA environments.

“I have not used Liquibase's AI capabilities.

“I did not purchase Liquibase through the [Google Cloud Marketplace](#) because it is free and available at no cost. There is no need to purchase a paid plan.

“I give this product a rating of nine out of ten..”

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**Akashkhurana Hirana**

Senior Software Engineer II at Porch.com, Inc.

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“On a scale of one to ten, I rate Liquibase overall as an eight.

“I rate it an eight because it fundamentally solved the problem that was genuinely painful and had not been solved well by anything else we evaluated.

“Regarding Liquibase's AI capabilities, I think its governance and security are solid.

“Regarding Liquibase's AI capabilities, I believe its accuracy and reliability of output could be improved.

“We deploy Liquibase using [GitHub Actions](#) and [Jenkins](#) depending on the client environment. Liquibase itself runs as part of the pipeline job, connects to the target database, applies the pending change sets, and exits. There is no separate server to manage.

“My experience with pricing, setup cost, and licensing is that the open-source version is free and genuinely capable for most use cases. We moved to Liquibase Secure for the governance features: audit logs, Drift Detection, policy enforcement, and separation of duties..”

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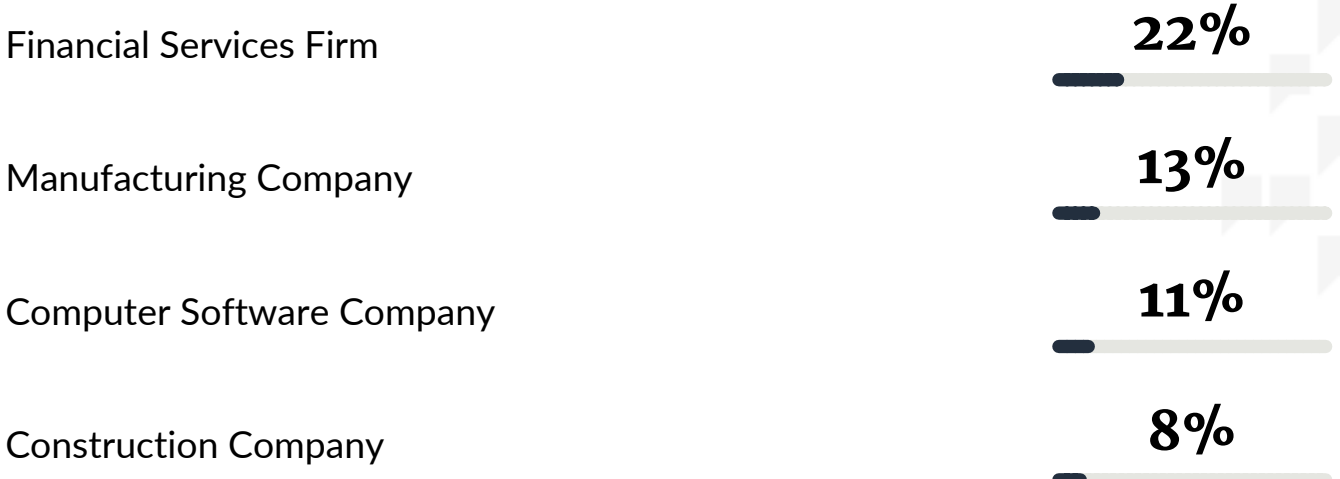
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Security Solution Specialist at Splunk

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# Top Industries

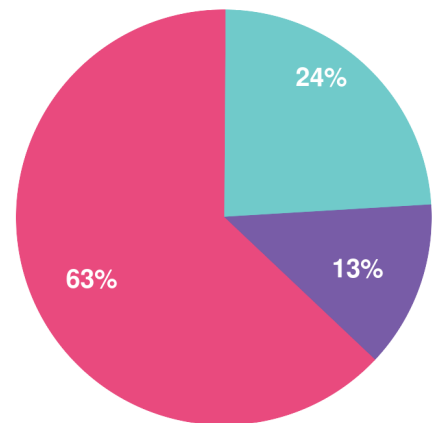
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# Company Size

by reviewers

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Large Enterprise      Midsized Enterprise      Small Business

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