



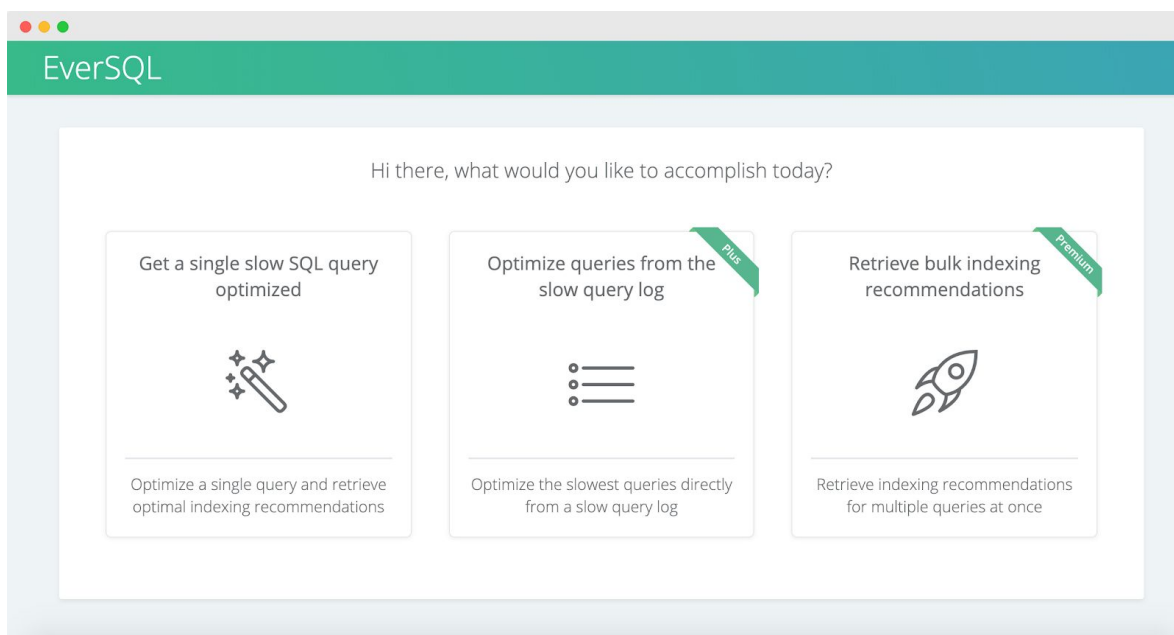
Optimize SQL queries, easily, automatically.

Product Overview

EverSQL Query Optimizer is the easiest way to improve your SQL queries' performance, automatically. It is a secure, cloud-hosted platform that enables optimizing MySQL, MariaDB and Percona Server queries. EverSQL uses proprietary algorithms to surface advanced query optimization insights and optimal indexing recommendations, so you can focus on writing queries, rather than optimizing them.

Product Highlights

- Automatically optimize an SQL query and retrieve optimal indexing recommendations.
- View changes applied to the query, along with examples and a side-by-side code comparison.
- Analyze MySQL slow log files and optimize poor-performing queries directly from the report.
- Retrieve optimal indexing recommendations for multiple queries, directly from slow log files.
- Integrate various database monitoring applications and SQL IDEs with EverSQL.



How secure is the data?

Our team is strongly committed at all levels, to the security of customer data. All sensitive data is encrypted both at rest and transit. We implement process, and technical controls designed to manage cybersecurity risks. For more information, please visit <https://www.eversql.com/security>.

How does the optimization algorithm work?

For optimal results, EverSQL Query Optimizer will ask you to submit the SQL queries to optimize and the matching schema structure ([including important metadata](#)).

EverSQL's algorithm takes dozens of factors into consideration in order to automatically optimize the query and provide optimal indexing recommendations. The factors list includes but is not limited to: the database type and version, the query's structure, the relationships between the tables, the tables structure, the amount of data in each table, the existing indexes and the data cardinality, the column types and properties, and more.

The optimization algorithm is being constantly improved as a result of customers feedback and constant research done by the EverSQL team.

The screenshot shows the EverSQL Query Optimizer interface. At the top, there's a header with the EverSQL logo and a user profile 'hello@eversql.com (5000 credits)'. Below the header, there are buttons for 'Start Over', 'Modify Query', and 'Export'. A yellow banner states: 'Yes! :) We have some recommendations for you, though we could have done better if we had the schema structure ...'. The main content is divided into two steps:

- Step 1 - Create optimal indexes**: This section explains that the most important step is creating optimal indexes. It provides two SQL statements to be executed on the database:

```
ALTER TABLE `products` ADD INDEX `products_idx_id` (`id`);
ALTER TABLE `purchase_history` ADD INDEX `purchase_history_idx_id_date` (`product_id`, `purchase_date`);
```
- Step 2 - Execute the optimized query**: This section shows the optimized SQL query:

```
1 SELECT
2   prod.*
3 FROM
4   products prod
5 WHERE
6   prod.name LIKE 'pizzav*'
7   AND 1 = 1
8   AND EXISTS (
9     SELECT
10      1
11    FROM
12     purchase_history purch
13   WHERE
14     prod.id = purch.product_id
15     AND purch.purchase_date > '2018-08-30 23:59:59'
16 )
17 GROUP BY
18   prod.id
19 ORDER BY
20   NULL
```

On the right side of Step 2, there are two informational boxes:

- Create Optimal Indexes**: A note that indexing recommendations are pending in the indexing tab above.
- Avoid Using Date Functions In Conditions**: A tip that MySQL optimizer won't be able to use date functions directly on indexed columns.

At the bottom of the interface, there is a copyright notice: '© 2018 EverSQL. All Rights Reserved.'