


DATABASE OPTIMIZATION

SOFTWARE QUALITY

Summary

- ▶ Why is it important to optimize database
 - ▶ How to optimize database
 - ▶ Useful tools
- 
- A series of several parallel white lines of varying lengths and slopes, located in the bottom right corner of the slide, creating a modern, abstract graphic element.

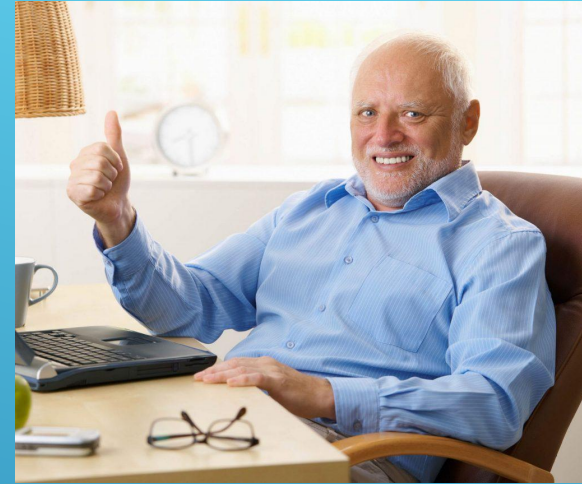
Why is it important to optimize database ?



Money



UX



Security



Integrity



How to optimize database



- Proper indexing
- Retrieve relevant data only
- Avoid coding loops



Useful tools



Basic SQL tuning

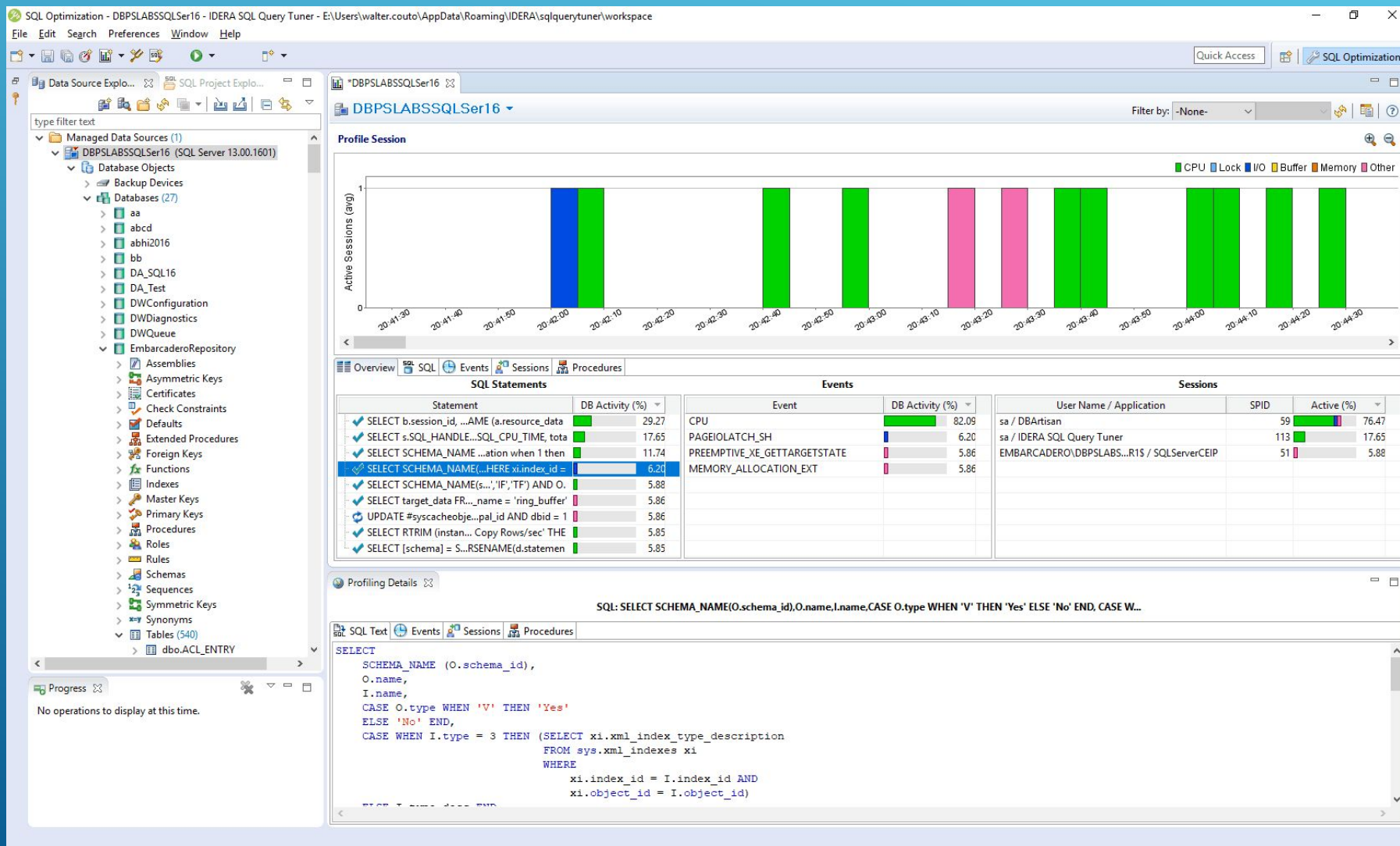
Database engine support



ORACLE



Cloud-based database support



1 2



Submit a Query

Please choose your database type and submit
an SQL query to optimize

Please submit a query to optimize...

MySQL ▾

5.0 ▾

```
1 SELECT
2   prod.*
3 FROM
4   products prod
5 LEFT JOIN
6   purchase_history purch
7   ON prod.id = purch.product_id
8 WHERE
9   prod.name LIKE '%pizza%'
10  AND DATE(purch.purchase_date) > '2018-08-30'
11 GROUP BY
```

Next



SOURCE

- ▶ <https://ircf.fr/actualites/optimiser-votre-base-de-donnees-mysql/>
- ▶ <https://www.addictivetips.com/net-admin/sql-query-optimization-tools/>
- ▶ <https://jaxenter.com/6-ways-optimize-sql-database-136448.html>
- ▶ <https://www.percona.com/blog/2019/09/23/why-schema-optimization-matters/>

Thank you for your attention

