

Transparent SQL Enhancement (TSE)- Module

What is TSE:

TSE, which is a module in MoreVRP, is a state of the art solution that allows you to manipulate SQL statements and change them according to your needs, in real time, without needing to open the application code or change anything in your architecture.

Why do you need it?

- **Save time and money of IT staff and end users**
TSE allows you tune 3rd party software that until now, were un-tunable. 3rd party software that are based on a database, are a black box to most programmers, DBAs and IT managers and can't be changed or tuned by the customer. When you face a performance problem with such software, you have no possibility to tune it at all, and you always rely on the vendor to deliver a patch. In Most cases it is a matter of weeks to months.
TSE allows you to deliver a fast and reliable solution for performance problems, while putting your users back on track and saving many hours both for your DBAs and your end-users. In addition, TSE gives you the ability to tune the 3rd part software in real-time, without voiding your warranty or harming existing functionality.
- **Saves IT costs – Database server sizing**
TSE can cut your IT costs due to the fact that you need a smaller database server than what the 3rd party vendor requires. Now that you have the power to tune the 3rd party queries, you can rely on a smaller machine to deliver the same throughput.
- **Cut development costs**
TSE allows you to tune database queries without needing to compile a new software release. When SQL statements require tuning, you can easily inject the enhancement rule into the database memory while the application remains untouched. This new approach allows you to skip the standard routine of code changing, compiling, testing, QA, building new Release, downtime, upgrades etc... This approach saves many hours of DBAs, programmers, QA and End-Users.

How?

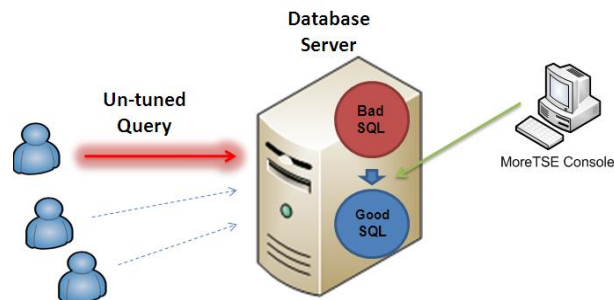
MoreVRP delivers an easy to use GUI that allows you to inject rules directly into the database memory so specific queries that are executed in the database, will be dynamically changed in real-time.

TSE works at the database level and injects the required changes into the database memory. The changes are made in real-time and no database shutdown is required.

TSE allows you to tune queries in real-time directly in your production environment without any fear of performance impact, since you can both inject the tuned query to the database memory, and control its resource consumption using *MoreVRP*.

The *TSE* Rules are implemented with a click of a mouse, and can be disabled within another mouse click, so that your application remains certified.

Using the *TSE*, you can now solve database tuning problems even if you are not the application vendor, within minutes, while skipping the long process of Development → QA → Testing...



TSE can be used in various scenarios such as :

1. **Tuning** : when you want to tune a query by adding SQL Hints, but you can't open your code for that :

```
select count(*) from customers →
select /*+ INDEX(customer custid_ix) */ from customer
```

Queries with Bind variables can also be tuned this way.

2. **Security** : When you want specific application queries not to return sensitive data. For example :

```
select customer_name,credit_card_num from customer_table
→ select customer_name,'XXXX' from customer_table
```

3. **SQL replacement** : When you wish to replace a certain statement with other statement for any purpose. For example :

```
select employee_name from employees →
select employee_name from employees summary_table.
```

***TSE* can support hundreds and thousands of concurrent rules, has no performance overhead, supports any kind of queries – from long ones to short (even microseconds), and doesn't require any changes in your application, or the database connection methodology.**

Just log in MoreVRP, define a new rule and enhance your system!

Please contact your nearest **MoreVRP** reseller for a software update.

If you have any questions – **MoreVRP** support team will be at your service at any time.

MoreVRP Support team - support@more-resource.com