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| **NCOI SQL Review Guideline** | | | |
| **Client:** | NCOI | **Project:** | NCOI Support & Maintenance |
| **Application:** | Olympus, e-Connect, EVC, Scheduler | **Period:** | 01.01.2012 – 01.02.2013 |
| **Project manager:** | Daniel Rucareanu | **Project leader:** | Radu Opris, Adrian Pirlea |
| **QA Officer:** | Ionel Mihali | **Version:** | 1.0 |

**Introduction**

This document contains information about the aspects that need to be considered when performing a review on SQL code and database design for the NCOI applications. This document is intended to all team members of the NCOI team, for both Olympus and e-Connect/EVC. The scope is to allow the SQL code review and database changes review to be performed by any team member, in an uniform way.

**SQL review guidelines**

The SQL review guideline contains items that are identified during the review. The items are classified per area and have a recommended criticality level. The items will be categorize in ‘design’, ‘performance’ and ‘functional’. Any **functional finding** should have the criticality level **high** or **critical.**

The table below presents the items in the guideline.

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| **No.** | **Item** | **Area** | **Recommended criticality level** |
| 1 | Use of “***where*** column = NULL” condition instead of ISNULL | Functional | High |
| 2 | On a left join, the ***deletion\_date*** condition is put in the ***where*** clause, instead of being added on the left join | Functional | High |
| 3 | Uses of left joins before inner joins | Performance | Medium |
| 4 | Functions applied multiple times in a select | Performance | Medium |
| 5 | Usage of “ select \* from” | Performance | Medium |
| 6 | Usage of OR conditions in the where clause for very complex queries | Performance | Medium |
| 7 | Use of Getdate() for each row in a select | Performance | Low |
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