

MySQL Migration to Oracle10g

halfvalue.com

A CINTRA CASE STUDY

► COMPANY PROFILE

COMPANY

Halfvalue.com

TYPE OF BUSINESS

Online Book Retailer

CORPORATE HEADQUARTERS

New York City

BUSINESS NEED

To urgently move off the MySQL database platform as scalability limitations were directly impacting revenue and customer retention. Oracle on Linux was the natural choice.

TECHNOLOGY

Oracle 10g Database, Oracle Migration Workbench, SQL, Redhat Linux ES 3.0

THE CHALLENGE

To quickly migrate off the MySQL database platform due to the limited scalability and related errors shown up on the halfvalue.com web site as a result of ever increasing volumes of users and activity.

Halfvalue.com's success as an online book retailer meant that an ever-increasing number of book orders and other transactions were hitting their MySQL database. The resulting slowdown in response time adversely affected the user experience. In order to avoid jeopardizing their critical revenue stream halfvalue.com decided to quickly switch to Oracle's 10g database platform.

In addition to migrating the database, halfvalue.com wanted to ensure that their customer-facing Java-based web application would continue to function in the new environment. They also wanted to ensure that Oracle best practices were employed, and that any improvements that could be made to database without affecting application functionality were implemented. They also wanted an initial knowledge transfer to help them in navigating the new Oracle environment, and help in identifying tools to use.

Halfvalue.com contacted Cintra Software & Services for help.

THE CINTRA SOLUTION

Cintra set out a migration plan based on the design and blueprinting of a new Oracle Linux based server platform, Cintra employed Oracle's Migration Workbench toolkit to perform the migration. This allowed for the automated conversion of many of the halfvalue.com objects, leaving Cintra to focus on the exceptions manually. Separately Cintra reviewed all of the existing Java application SQL statements to identify those that would not run in Oracle. Cintra recommended specific changes to the SQL statements to avoid errors, and also recommended changes to database object names to avoid conflicts with Oracle reserved words and to comply with best-practice naming standards.

Cintra performed a test migration to allow application testing, and then performed a final production migration. In addition Cintra prepared documentation on getting started with Oracle.

Cintra Case Study halfvalue.com

RESULTS

Cintra's deep Oracle and SQL knowledge resulted in a comprehensive list of changes that needed to be made in order for the application to run successfully after migration.

The migrations were performed over a period of 4 weeks to accommodate the customer's schedule and to permit rigorous application testing.

Cintra successfully migrated the database on budget and halfvalue.com are now successfully running their website on the best database technology available with a dramatic performance improvement and greatly increased capacity for future scalability.

CUSTOMER CONFIDENCE

Since migrating to Oracle 10g halfvalue.com has reestablished marketing efforts to drive new customers and resulting orders to the website, knowing that the new scalable and platform will ensure customers and orders are served reliably.

TESTIMONIAL

"Cintra gave me a complete migration solution. I just provided the database and SQL code, and they returned to me a working migrated database and all the revised SQL I needed.

"This black box approach made it easy for me to migrate. And after it was all done, Cintra helped me understand how to interact with and take advantage of the new Oracle database. I'm very happy with the results."

halfvalue.com CTO

Solution Snapshot

Hardware:

- Intel on Redhat ES 3.0

Software:

- Oracle 10g Database
- Red Hat Linux Enterprise Server 3.0
- Oracle Migration Workbench

Products and Services:

- Data Migration plan
- Automated Migration Process
- Tested Migration
- Production Migration

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