

TM Performance Data

Introduction

This document is a record of TM performance data.

A comparison between MySQL, Oracle and Access

In the following comparison the source is a flat file consisting of motor vehicle parts data and containing approximately 350,000 records).

The timings found when writing (inserts only) to these databases were:

	Records per minute	Records per second
MySQL	936	15.6
Access	18115	301.917
Oracle	14442	240.7

With Allowbatching() on, the following was achieved:

	Records per minute	Records per second
MySQL	1406	23.43
Access	22443	374.05
Oracle	58149	969.15

Bulk load and export activities

Performance figures for some bulk load and bulk export activities appear below. The tests are very simple and not quoted as though real world examples.

1. Creating a 164 Mb flat file from a set of random data (using TM to map from quasi-random string generator to a scalable flat file adapter).

Mapping 2,000,000 rows took 65672ms (65.672s) (i.e. 0.032836ms per map or 30454.38 maps per second)

2. Loading the same 164 Mb flat file into Oracle using a scalable flat file loader.

Mapping 2000,001 rows took 204.750s (i.e. 0.10237495ms per map or 9768.015 rows per second)

3. Re-exporting from Oracle to the same flat file format (again using the scalable flat file adapter).

Mapping 2,000,000 rows took 87828ms (87.828s) (i.e. 0.043914ms per map or 22771.781 maps per second)

The test system used is a Centrino M Processor 770 (2.13GHz) with an 80GB (7,200rpm) hard drive.



ICAP

1. Extracting 992,000 records from an Oracle database into a comma separated file of 216Mb.

Mapping 992,000 records took 125s (i.e. 0.126ms per map or 7936 maps per second)

2. Building and running a transform that adds multiple copies of records with certain date ranges (reading a 216Mb file and creating a 370Mb file).

The process took 212s. (example VB programme takes 18 minutes 8 seconds to handle a little less data)

3. Running a mock-up of a load into the Datamart

Populating one main table while simultaneously adding foreign key references to two other existing populated tables.

Loading 1,680,653 records from the flat file took 397s. (0.236ms per row or 4231 rows per second)

(VB equivalent took 20mins 41 seconds - but number of tables loaded unknown)

The test system used is a Centrino M Processor 770 (2.13GHz) with an 80GB (7,200rpm) hard drive.

Further Information

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