

JMK SQL Database

Report Generation

Electronic Data Transfer

3rd Party Direct Data Access

System Option

- I. Overview
 - A. Description
 - B. Components
 - C. End User Processes

- II. Operation details
 - A. MySQL on Linux
 - B. JMK system files
 - C. Basic programs
 - D. Data Files
 - E. Automation

I. Overview

A. Description

A system of programs that **DUMP** data from the JMK files then **LOAD** that data into a MySQL database running on the JMK applications server. The MySQL database can then be used for:

1. **Report Generation** using any desired third party report generation that has an ODBC (Open Data Base Connectivity) driver or a MySQL database connector.
2. Fully automated **Electronic data transfer** for authorized parties from the JMK data files to their data systems.
3. On demand data Access to authorized **Third Party's** via ODBC.

B. Components

1. MySQL DBMS running on Linux
2. JMK system files
3. Basic programs
4. Data files

C. End User Processes

1. Manual data dump and load
 - a) End user processes are contained within a program which can be setup as an AGATE sign-in option.
2. Report Generation.
 - a) Requires some knowledge of SQL and/or third party software.
3. Any remote access to data either automated or manual can only be setup by JMK staff, which will be happy to setup access to your specifications.

II. Operation details

A. MySQL on Linux

1. Database standards.
 - a. **Name** is three character site ID code plus “files”
 - b. **Administrator** access requires JMK specified password to enable automated processes.
 - c. User access will be **administered by JMK** with user access to only that database which contains their **group** data.
 - d. **Remote access** to outside users can be enabled at site discretion.

B JMK system files used as data source.

Access to those files is through normal JMK applications.

C. Basic programs (using xxx to specify wildcard naming).

1. SQLMNU – allows manual control of selective:
Dump and load of files; creation of MySQL tables.
2. Sxxxxx – Dump and load data from JMK system to MySQL.
Programs create .CSV data dumps, create and execute bash scripts that run a MySQL data load utility, they then erase all created files.

Tables are flushed of data prior to load to keep new data only.
3. ALLxxx –Aggregated Dump and load from JMK to MySQL.
Programs that combine multiple dump and load programs to allow specific groups of files to be processed as a single menu selection option.

Tables are flushed of data prior to load to keep new data only.
All created files are erased after being used.

D. Data files

1. create_XXXXXX.sql

Set of table definition files that are used to specify data parameters to parallel data in JMK SYSTEM files.

.SQL files remain on the system in a pre-defined location and are not end user accessible.

2. sqlxxx.dat

Set of data files used as input for C-1, C-2 & C-3 above to control/define specifics of operation. These files can be edited to change the descriptions displayed by the SQLMNU program.

.DAT files remain on the system at a pre-defined location.

.DAT files can be modified to control operation of SQLMNU.

E. Automation of **dump and load processes**

1. For individual files or file groups can be setup as desired using the Linux background batch processor cron.

- a. Automation will only be for on-server applications, no remote data transfer or synching is offered at this time.