**The migration plan from Sybase to MySql for lavalife.com**

1. **Planning (Virtualization, capacity, throughput)**
2. **Development**

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| **Step** | **Migration Step description** | **Estimate** |
| **1** | **Install mySQL servers with replication**  **(the attachment of MySQL database diagram provide more details )** |  |
| **2** | **Create database on Mysql (after creating database in mysql, a directory named as the database is created under $datadir, for instance, /var/lib/w151dbp10\_4100)** |  |
| **3** | **Migrate database objects (table, index, trigger and view) from Sybase to Mysql**  **3.1 use Sybase Power Designer**  **3.2 connect to Sybase servers and databases**  **3.3 reverse engineering the Sybase database objects (table/index)**  **3.4 generate the MySQL scripts with Power Designer** |  |
| **4** | **Migrate data from Sybase to**  **The script is under Sybase@wxdbmaint:/ [path] Mysql/opt/scripts/maint/mysqlMigration**  **[filename] dataMigrationSybMysql.sh**  **[for instance] ./dataMigrationSybMysql.sh g151dbr07 Plus45 10.50.4.10 4100 Plus45** |  |
| **5** | **Migrate stored procedure from Sybase to Mysql**  **New cvs for MYSQL stored procedures:**  **jcui@gxcvs1:/home/jcui/web/javalife/mydb/sproc/Plus45**  **[for instance] ./createMyProc.sh 10.20.1.50 5010 Plus45 test** |  |
| **6** | **6.1. Migrate application’s data access layer (Java and JDBC)**  **6.2. Double writing into Both Sybase and MySQL in the asynchrous fashion**  **6.3. queuing the database modification call when the server is not available and resume the execution when the server is ready.** |  |
| **7** | **Re-write backup plan for mysql** |  |
| **8** | **Create monitoring system for mysql database servers** |  |
| **9** | **Re-write all database maintenance scripts** |  |
| **10** | **Re-write all scripts for data archive** |  |
| **11** | **Re-write all ETL scripts for Cube** |  |
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1. **Testing (Designer/developer testing, Function testing, integration testing)**
2. **Implementation of the migration**
3. **Post-implementation performance tuning**

**Testing method for Lavalife Prime**

1. **Create account on Sybase**
2. **Migrate data from Sybase to mysql and verify the account**
3. **Create new account on mysql**

**Migration implementation steps:**

1. **Initial migration (ask down time and migrate data from Sybase ti mysql)**
2. **Master on Sybase and double execute procs on mysql**
3. **Verify the data on mysql and monitor performance on mysql**
4. **Switch over to mysql, master on Mysql and double execute on Sybase in order to fall back in case of migration failure**
5. **Observe and monitor**
6. **Stop double execute and drop Sybase**