

MySQL – Lab 02

MySQL Indexing & Partitioning

Indexing

1. Create a compound index on the *last_name* and *first_name* columns in the *actor* table. Perform some queries and check with *explain select* commands.
2. Find movies rented in February 2006. Use *explain select* to check if the query is optimized and find a way to optimize it.
3. Full Text Search
 - a. Find movies where the word 'drama' appears but the word 'teacher' doesn't appear in descriptions.
 - b. Find movies where the phrase 'Emotional Drama' appears in descriptions.
4. Partitioning the *customer* table into 5 partitions using the hash type on the *customer_id*. Check the partitioning information from the *INFORMATION_SCHEMA.PARTITIONS* table.
5. Partitioning the *rental* table based on the year of *rental_date*. Find rentals in 2007 and check this query using *explain select*.

Partitioning Notes:

- ▶ *Foreign keys are not supported*
- ▶ *Partition tables do not support FULL TEXT searches*
- ▶ *All columns used in partitioning need to be part of every unique key in the table*