



PA220: Database systems for data analytics

Home Assignment 3

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Integrate a new source of data

- Integrate the data in `release-dates.csv` into your DWH (information about app version release dates)
 - Describe the steps for integration (SQL commands to check the dim and update with new data)
- Report customers' adoption pace of a new version of SW.
 - *i.e.*, for version A59, report the time in days it took to get the first ten installations, 100 installations, and the maximum number of customers using this version (aka the peak before the users converted to any newer version).
 - If there are fewer than 100 installations, the number of days can be null or the same as for the peak.

Influence of Indexes

- For the query in the previous slide, analyze the possibility of accelerating it by creating indexes.
 - Report the original query time before any additional index creation.
 - For each tested index, report its influence on the query execution time.
 - You may check the output of EXPLAIN command to see whether your index was used or not.
- Note: report the execution time as an average value over five executions, at least.

Submission of Assignment 3

- Hand into the IS vault:
 - A single txt file containing:
 - Steps to integrate the new data
 - Query as SELECT command and its execution time
 - Analysis of creating indexes (incl. execution times)
- Grading
 - 4 pts data integration
 - 2 pts query
 - 4 pts indexing