**Insights on mySQL using Global Trade Item Number (GTIN) data structures**

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**Abstract**

MySQL is a popular open source database format. GTIN (Global Trade Item Number) is a family of product ID codes, used worldwide between trading partners, to identify products via linear or 2D barcodes on the product or packaging. This project will provide insight and first impressions on the ease of use of mySQL using GTIN example data.

An open source GTIN subset > 100K records (.csv, .sql, or JSON format) will be downloaded and installed on a local mySQL database instance. Open source documentation will be reviewed to better understand the GTIN data. The schema will be checked for normalization and modified if necessary, Primary and foreign key indexes will be created/modified as needed. A graphical schema of the database will be created with example data from each table to visualize the relationship between tables. Exploratory queries will be created to summarize selected fields such as brand, and packaging level. A summary list of mySQL commands used in the analysis will be provided along with impressions on ease of use, intuitiveness, and effectiveness.