

Knex – ‘SQL query builder’

idea-case-backend

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Knex

- (pronounced /kə'neks/ könex)
- ” SQL query builder” - but does a lot more too
- E.g. offers means for
 - database connection configuration,
 - connection pool setup for performance
 - SQL built from your JS programming code (No need to write SQL, just JS)
 - Promises based API for initiating database operations,
 - ... setting ”call-backs” for success and failure cases
 - ... getting back database operation result
- Kind of like an ORM (Object-relational mapper)
- Uses separate DB driver module, (e.g. mysql or mariadb in case of MariaDB) between itself and the database

Knex – Return values from database operations

- SELECT
 - Data as an array of objects
- DELETE
 - Number of deleted rows (rows affected)
- UPDATE
 - Number of updated rows (rows affected)
- INSERT
 - Generated auto-increment id:s of created rows in an array: [103, 104, 105]. If only single object insert is accepted, then the returned value will be an array with one id number in it: [103]

Knex – Examples

- <https://knexjs.org/guide/query-builder.html> Coding examples here. Notice that there are multiple different ways to write the same database operation with different Knex syntax.
- Look also e.g. at idea-case-backend /src/routes/api/category.js and e.g. the first five endpoints there for Knex coding examples