Package: mtgjsonsdk (via r-universe)

October 13, 2026

Title 'DuckDB'-Backed Query Client for 'MTGJSON' Card Data

Version 0.1.0

Description Auto-downloads Parquet data from the 'MTGJSON' CDN and exposes the full Magic: The Gathering dataset through R6-based query interfaces backed by 'DuckDB'.

URL https://mtgjson.com

BugReports https://github.com/mtgjson/mtgjson-sdk-r/issues

Depends R (>= 4.1.0)

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`MtgjsonSDK` *MTGJSON SDK - DuckDB-backed query client for MTGJSON card data.*

Description

MTGJSON SDK - DuckDB-backed query client for MTGJSON card data.

MTGJSON SDK - DuckDB-backed query client for MTGJSON card data.

Details

Auto-downloads Parquet data from the MTGJSON CDN and provides R6-based query interfaces for the full MTG dataset.

Active bindings

`cards` CardQuery interface.

`sets` SetQuery interface.

`prices` PriceQuery interface.

`decks` DeckQuery interface.

`sealed` SealedQuery interface.

`skus` SkuQuery interface.

`identifiers` IdentifierQuery interface.

`legalities` LegalityQuery interface.

`tokens` TokenQuery interface.

`enums` EnumQuery interface.

`booster` BoosterSimulator interface.

`meta` MTGJSON build metadata.

`views` Currently registered DuckDB views/tables.

Methods

Public methods:

- `MtgjsonSDK$new()`
- `MtgjsonSDK$sql()`
- `MtgjsonSDK$refresh()`
- `MtgjsonSDK$export_db()`
- `MtgjsonSDK$close()`
- `MtgjsonSDK$clone()`

Method `new()`**:** Initialize the SDK.

Usage:

```
MtgjsonSDK$new(
  cache_dir = NULL,
  offline = FALSE,
  timeout = 120,
  on_progress = NULL
)
```

Arguments:

`cache_dir` Directory for cached data files. NULL for platform default.

`offline` If TRUE, never download from CDN.

`timeout` HTTP request timeout in seconds.

`on_progress` Optional callback function(filename, downloaded, total).

Method `sql()`**:** Execute raw SQL against the DuckDB database.

Usage:

```
MtgjsonSDK$sql(query, params = NULL)
```

Arguments:

`query` SQL query string.

`params` Optional list of positional parameters.

Returns: A data.frame.

Method `refresh()`**:** Check for new MTGJSON data and reset if stale.

Usage:

```
MtgjsonSDK$refresh()
```

Returns: TRUE if data was stale and reset, FALSE otherwise.

Method `export_db()`**:** Export all loaded data to a persistent DuckDB file.

Usage:

```
MtgjsonSDK$export_db(path)
```

Arguments:

`path` Output path for the .duckdb file.

Returns: The output path (invisibly).

Method `close()`**:** Close the DuckDB connection and free resources.

Usage:

```
MtgjsonSDK$close()
```

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
MtgjsonSDK$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

SqlBuilder *SQL Builder for parameterized DuckDB queries.*

Description

SQL Builder for parameterized DuckDB queries.

SQL Builder for parameterized DuckDB queries.

Details

All user-supplied values go through DuckDB parameter binding ($1, $2, ...), never through string interpolation. Methods return `invisible(self)` for chaining.

Methods

Public methods:

- `SqlBuilder$new()`
- `SqlBuilder$select()`
- `SqlBuilder$distinct()`
- `SqlBuilder$join()`
- `SqlBuilder$where()`
- `SqlBuilder$where_like()`
- `SqlBuilder$where_in()`
- `SqlBuilder$where_eq()`
- `SqlBuilder$where_gte()`
- `SqlBuilder$where_lte()`
- `SqlBuilder$where_regex()`
- `SqlBuilder$where_fuzzy()`
- `SqlBuilder$where_or()`
- `SqlBuilder$group_by()`
- `SqlBuilder$having()`
- `SqlBuilder$order_by()`
- `SqlBuilder$limit()`
- `SqlBuilder$offset()`
- `SqlBuilder$build()`
- `SqlBuilder$clone()`

Method `new()`**:** Create a builder targeting the given table or view.

Usage:

```
SqlBuilder$new(base_table)
```

Arguments:

`base_table` The DuckDB table/view name to query from.

Method `select()`**:** Set the columns to select (replaces default `*`).

Usage:

```
SqlBuilder$select(...)
```

Arguments:

`...` Column names or expressions.

Method `distinct()`**:** Add DISTINCT to the SELECT clause.

Usage:

```
SqlBuilder$distinct()
```

Method `join()`**:** Add a JOIN clause.

Usage:

```
SqlBuilder$join(clause)
```

Arguments:

`clause` Full JOIN clause string.

Method `where()`**:** Add a WHERE condition with $N placeholders.

Usage:

```
SqlBuilder$where(condition, ...)
```

Arguments:

`condition` SQL condition with $1, $2, ... placeholders.

`...` Values bound to the placeholders.

Method `where_like()`**:** Add a case-insensitive LIKE condition.

Usage:

```
SqlBuilder$where_like(column, value)
```

Arguments:

`column` Column name.

`value` LIKE pattern.

Method `where_in()`**:** Add an IN condition with parameterized values.

Usage:

```
SqlBuilder$where_in(column, values)
```

Arguments:

`column` Column name.

`values` List of values for the IN clause.

Method `where_eq()`**:** Add an equality condition.

Usage:

```
SqlBuilder$where_eq(column, value)
```

Arguments:

`column` Column name.

`value` Value to match.

Method `where_gte()`**:** Add a >= condition.

Usage:

```
SqlBuilder$where_gte(column, value)
```

Arguments:

`column` Column name.
`value` Minimum value (inclusive).

Method `where_lte()`**:** Add a <= condition.

Usage:

```
SqlBuilder$where_lte(column, value)
```

Arguments:

`column` Column name.
`value` Maximum value (inclusive).

Method `where_regex()`**:** Add a regex match condition.

Usage:

```
SqlBuilder$where_regex(column, pattern)
```

Arguments:

`column` Column name.
`pattern` Regular expression pattern.

Method `where_fuzzy()`**:** Add a fuzzy string match condition (Jaro-Winkler similarity).

Usage:

```
SqlBuilder$where_fuzzy(column, value, threshold = 0.8)
```

Arguments:

`column` Column name.
`value` Target string.
`threshold` Minimum similarity score (0-1, default 0.8).

Method `where_or()`**:** Add OR-combined conditions.

Usage:

```
SqlBuilder$where_or(...)
```

Arguments:

`...` Lists of c(condition_sql, param_value).

Method `group_by()`**:** Add GROUP BY columns.

Usage:

```
SqlBuilder$group_by(...)
```

Arguments:

`...` Column names or expressions.

Method `having()`**:** Add a HAVING condition.

Usage:

```
SqlBuilder$having(condition, ...)
```

Arguments:

`condition` SQL condition with $N placeholders.

`...` Values bound to the placeholders.

Method `order_by()`**:** Add ORDER BY clauses.

Usage:

```
SqlBuilder$order_by(...)
```

Arguments:

`...` Order clauses (e.g. "name ASC").

Method `limit()`**:** Set the maximum number of rows to return.

Usage:

```
SqlBuilder$limit(n)
```

Arguments:

`n` Non-negative integer limit.

Method `offset()`**:** Set the number of rows to skip.

Usage:

```
SqlBuilder$offset(n)
```

Arguments:

`n` Non-negative integer offset.

Method `build()`**:** Build the final SQL string and parameter list.

Usage:

```
SqlBuilder$build()
```

Returns: A list with `sql` (character) and `params` (list).

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
SqlBuilder$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

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