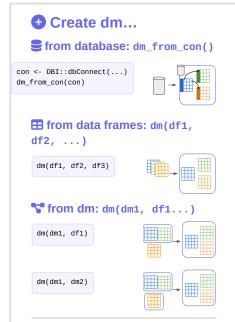
Relational data with dm: Cheat sheet If you have more than one table, use dm.



Add keys: dm_add_pk(), dm_add_fk()

Automatic for MariaDB, SQL Server, Postgres, and others.

Primary keys

Identify potential primary keys: dm_enum_pk_candidates(): columns, candidate, why.

Add primary keys:

```
dm1 |>
dm_add_pk(table, columns)
```

Identify potential foreign keys: dm_enum_fk_candidates(): columns, candidate, why.

Add foreign keys:

```
dm1 |>
dm_add_fk(table, column)
```

1 dm objects: relational data models

The dm package provides a grammar of relational data models. It helps maintain referential integrity.

A dm behaves like a list of tables (data frames or lazy tables) capturing relationships between the tables.

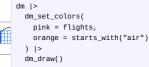


T Resize dm

Select tables: dm_select_tbl(dm1, ...)







Rename tables:

dm_rename_tbl(dm1, ...)

Select columns: dm_select(dm1, table, ...)

Automatic update of dm meta-information and table relations.

```
dm_select(df3, -c3, -c4)
```



Rename columns: dm_rename(dm1, table, ...)

Filter rows: dm_filter(dm1, table = (pred))

Filter rows in the table where the condition is defined, but also all directly/indirectly connected tables.

• Visualize dm: dm draw()

Control diagram level of detail: display...

Only keys (default): dm_draw(view_type = "keys_only").

All variables: dm_draw(view_type = "all"). Only table names: dm_draw(view_type = "title_only").

```
dm |>
dm_draw(
 view_type = "title_only",
 rankdir = "TB"
```

Control diagram scope

To visualize fewer tables first use dm_select_tbl().

Control diagram colors: dm_set_colors()



✓ Data checks

dm_examine_constraints()

tibble with information about which key constraints are met or violated.

dm_examine_cardinalities()

tibble with information about the cardinality of the foreign keys constraints.

check key(df, col1)

returns an error if not an unique key.

check subset(df1, df2)

returns an error if df1 is not a subset of df2.

check set equality(df1, df2)

returns an error if df1 and df2 are not the same sets.





dm1 |>
 dm_filter(df3 = (x == "val"))



Fix column names:
dm_disambiguate_cols()

dm_disambiguate_cols(dm1) ensures that all columns in a dm have unique names.

Relational data with dm: Cheat sheet If you have more than one table, use dm.

