



(<https://databricks.com>)

Fact Table
loans

```
 / | \  
/  |  \
```

customers loan_types payment_status

```
%sql
-- Creating a new schema called 'dw'
CREATE SCHEMA IF NOT EXISTS dw;
```

OK

```
%sql
drop TABLE dw.dim_customers
```

OK

```
%sql

-- Creating a dimension table for customers in the 'dw' schema
CREATE TABLE dw.dim_customers (
    customer_id STRING,
    first_name STRING,
    last_name STRING,
    gender STRING,
    email STRING,
    phone_number STRING,
    address STRING,
    income DECIMAL(28, 12),
    state STRING,
    birthday DATE,
    hair_color STRING,
    credit_score BIGINT
);
```

Cancelled

```
%sql
CREATE TABLE dw.dim_loans (
  loan_id STRING,
  customer_id STRING,
  lender_state STRING,
  origination_date DATE,
  due_date DATE,
  term_weeks BIGINT,
  principal_amount DECIMAL(28, 12),
  total_due_amount DECIMAL(28, 12),
  paid_amount DECIMAL(28, 12),
  fee_amount DECIMAL(28, 12),
  collateral_assessment DECIMAL(28, 12),
  collateral_sold DECIMAL(28, 12),
  defaulted STRING
);
```

Command skipped

```
%sql
-- Creating dimension table for loan types
CREATE TABLE dw.dim_loan_types (
  loan_type_id INT PRIMARY KEY,
  description STRING
);
```

Command skipped

```
%sql
-- Creating dimension table for payment status
CREATE TABLE dw.dim_payment_status (
  status_id INT PRIMARY KEY,
  status_description STRING
);
```

Command skipped

```
%sql

-- Creating the fact table for loans
CREATE TABLE dw.fact_loans (
  loan_id STRING PRIMARY KEY,
  customer_id STRING,
  loan_type_id INT,
  status_id INT,
  loan_amount DECIMAL(10,2),
  start_date DATE,
  end_date DATE,
  FOREIGN KEY (customer_id) REFERENCES dw.dim_customers(customer_id),
  FOREIGN KEY (loan_type_id) REFERENCES dw.dim_loan_types(loan_type_id),
  FOREIGN KEY (status_id) REFERENCES dw.dim_payment_status(status_id)
);
```

Command skipped

```
%sql
CREATE TABLE dw.fact_transactions (
  transaction_id STRING,
  loan_id STRING,
  customer_id STRING,
  transaction_date DATE,
  amount DECIMAL(28, 12),
  direction STRING,
  is_late STRING,
  fee DECIMAL(10, 2)
);
```

Command skipped

```
%sql
select * from stg.loans
```

Command skipped

Command skipped

