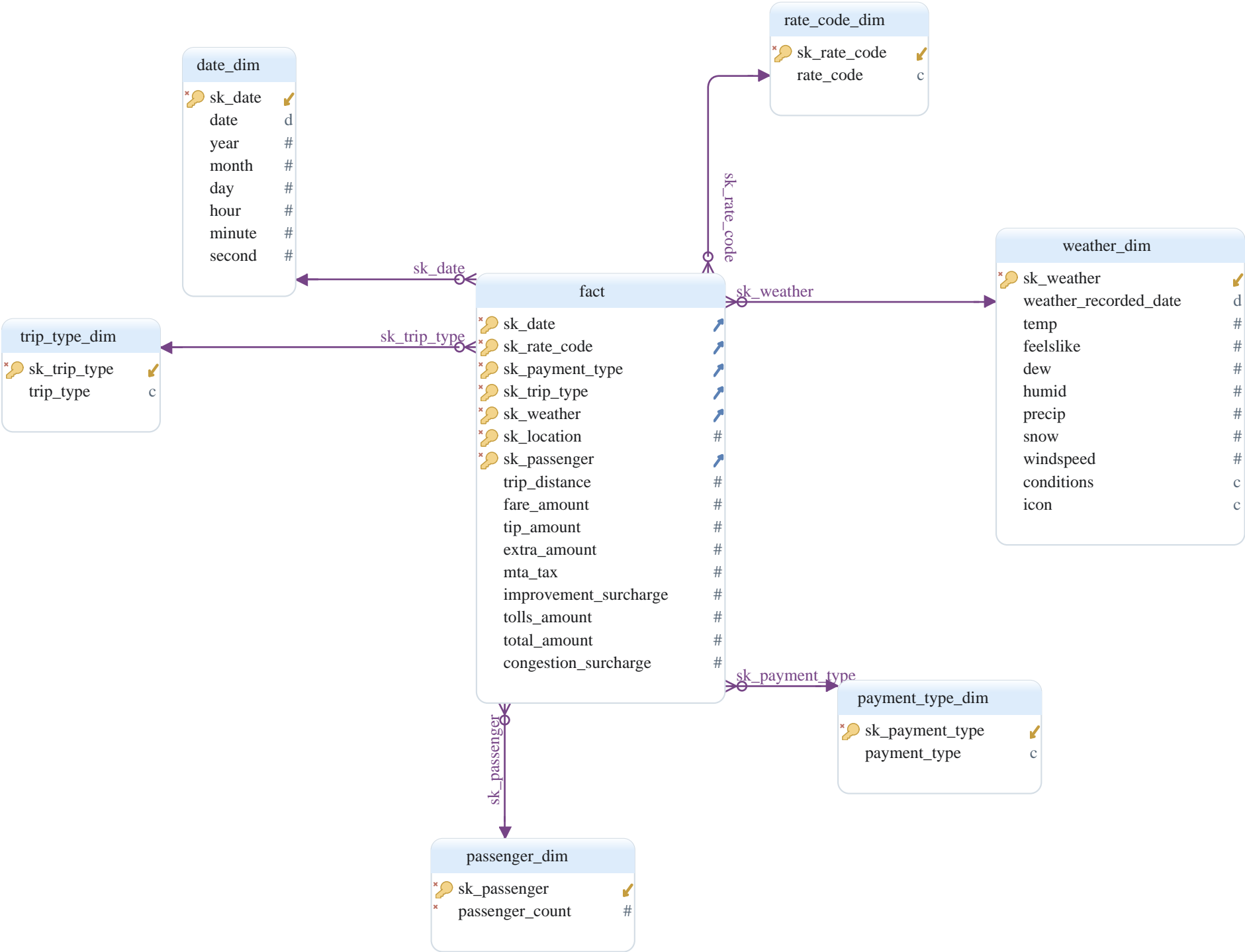


This is a layout - a diagram with tools.

- Create new entities by right-clicking the layout.
- Double-click entity headers to edit.
- For a better understanding of the schema, create multiple layouts.
- Deploy the model into the database by converting it first to the physical design.



Default Layout

Entity date_dim

Dimentional Table for Date

* Pk	sk_date	INT	Surrogate key for Date
	date	DATE	Date
	year	INT	Year
	month	INT	Month
	day	INT	Day
	hour	INT	Hour
	minute	INT	Minute
	second	INT	Second

Indexes

Pk	pk_date_dim	sk_date
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Entity fact

Factual Table which contains all the measures covering the informatin about different charges, ride distance and number of rides

* Pk	sk_date	INT	surrogate key of date
* Pk	sk_rate_code	INT	surrogate key of rate code
* Pk	sk_payment_type	INT	surrogate key of payment type
* Pk	sk_trip_type	INT	surrogate key of trip type
* Pk	sk_weather	INT	surrogate key of weather
* Pk	sk_location	INT	surrogate key of location
* Pk	sk_passenger	INT	surrogate key of passenger
	trip_distance	DECIMAL	Average Trip Distance
	fare_amount	DECIMAL	Average Fare Amount
	tip_amount	DECIMAL	Average Tip Amount
	extra_amount	DECIMAL	Average Extra Amount
	mta_tax	DECIMAL	Average Tax Amount
	improvement_surcharge	DECIMAL	Average Surcharge
	tolls_amount	DECIMAL	Average Tolls Amount
	total_amount	DECIMAL	Average Total fare
	congestion_surcharge	DECIMAL	Average Congestion Surcharge

Indexes

Unq	unq_sk_date	sk_date
Unq	unq_sk_rate_code	sk_rate_code
Unq	unq_sk_weather	sk_weather
Unq	unq_sk_payment_type	sk_payment_type
Unq	unq_sk_location	sk_location
Unq	unq_sk_trip_type	sk_trip_type
Pk	pk_fact	sk_date, sk_rate_code, sk_payment_type, sk_trip_type, sk_weather, sk_location, sk_passenger

Relationships

Vir	fk_fact_date_dim (sk_date) ref date_dim (sk_date)
Vir	fk_fact_rate_code_dim (sk_rate_code) ref rate_code_dim (sk_rate_code)
Vir	fk_fact_payment_type_dim (sk_payment_type) ref payment_type_dim (sk_payment_type)
Vir	fk_fact_trip_type_dim (sk_trip_type) ref trip_type_dim (sk_trip_type)

Vir	fk_fact_weather_dim (sk_weather) ref weather_dim (sk_weather)
Vir	fk_fact_passenger_dim (sk_passenger) ref passenger_dim (sk_passenger)

Dimensional Table for Passenger			
* Pk	sk_passenger	INT	Surrogate Key for passenger
*	passenger_count	INT	Number of Passengers
Indexes			
Pk	pk_passenger_dim	sk_passenger	

Dimensional Table for Payment Type			
* Pk	sk_payment_type	INT	Surrogate Key for Payment Type
	payment_type	CHAR(10)	Payment Type code
Indexes			
Pk	pk_payment_type_dim	sk_payment_type	

Dimensional Table for Rate Code			
* Pk	sk_rate_code	INT	Surrogate Key for Rate Code
	rate_code	CHAR(10)	Rate Code
Indexes			
Pk	pk_rate_code_dim	sk_rate_code	

Dimensional Table for Trip Type			
* Pk	sk_trip_type	INT	Surrogate Key for Trip Type
	trip_type	CHAR(10)	Trip Type Code
Indexes			
Pk	pk_trip_type_dim	sk_trip_type	

* Pk	sk_weather	INT	Surrogate Key for weather
	weather_recorded_date	DATE	Actual Weather recorded date
	temp	DECIMAL	Temperature
	feelslike	DECIMAL	Feels Like Temperature
	dew	DECIMAL	Dew value
	humid	DECIMAL	Humidity
	precip	DECIMAL	Precipitation
	snow	DECIMAL	Snow level in value
	windspeed	DECIMAL	windspeed in value
	conditions	CHAR(100)	Descriptive Conditions
	icon	CHAR(100)	Climatic condition in text
Indexes			
Pk	pk_weather_dim	sk_weather	