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## import\_log

### Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
ID	int	(NULL)	NO	PRI	(NULL)	auto_increment	select,insert,update,references	
jcdecaux	json	(NULL)	YES		(NULL)		select,insert,update,references	
openweather	json	(NULL)	YES		(NULL)		select,insert,update,references	

### Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment	Visible	Expression
import_log	0	PRIMARY	1	ID	A	0	(NULL)	(NULL)		BTREE			YES	(NULL)
import_log	0	ID_UNIQUE	1	ID	A	0	(NULL)	(NULL)		BTREE			YES	(NULL)

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## station

### Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
ID	int	(NULL)	NO	PRI	(NULL)	auto_increment	select,insert,update,references	
number	int	(NULL)	YES	MUL	(NULL)		select,insert,update,references	
contractName	varchar(45)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
stationName	varchar(45)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
address	varchar(60)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
latitude	float	(NULL)	YES		(NULL)		select,insert,update,references	
longitude	float	(NULL)	YES		(NULL)		select,insert,update,references	
banking	tinyint(1)	(NULL)	YES		(NULL)		select,insert,update,references	
bonus	tinyint(1)	(NULL)	YES		(NULL)		select,insert,update,references	

**Indexes**

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment	Visible	Expression
station	0	PRIMARY	1	ID	A	111	(NULL)	(NULL)		BTREE			YES	(NULL)
station	0	ID_UNIQUE	1	ID	A	111	(NULL)	(NULL)		BTREE			YES	(NULL)
station	0	Number_Contract	1	number	A	111	(NULL)	(NULL)	YES	BTREE		The Station Number and contract name are the primary identifiers on JCDecaux	YES	(NULL)
station	0	Number_Contract	2	contractName	A	111	(NULL)	(NULL)	YES	BTREE		The Station Number and contract name are the primary identifiers on JCDecaux	YES	(NULL)

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Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
ID	int	(NULL)	NO	PRI	(NULL)	auto_increment	select,insert,update,references	
stationId	int	(NULL)	NO	MUL	(NULL)		select,insert,update,references	
weatherTime	datetime	(NULL)	YES		(NULL)		select,insert,update,references	We can tie each state record to a weather record by timestamp
status	varchar(45)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
bike_stands	int	(NULL)	YES		(NULL)		select,insert,update,references	
available_bike_stands	int	(NULL)	YES		(NULL)		select,insert,update,references	
available_bikes	int	(NULL)	YES		(NULL)		select,insert,update,references	
lastUpdate	bigint	(NULL)	YES		(NULL)		select,insert,update,references	We store the last update in seconds since 1970

**Indexes**

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment	Visible	Expression

stationState	0	PRIMARY	1	ID	A	695898	(NULL)	(NULL)		BTREE			YES	(NULL)
stationState	0	ID_UNIQUE	1	ID	A	698981	(NULL)	(NULL)		BTREE			YES	(NULL)
stationState	1	fk_stationState_station	1	stationId	A	112	(NULL)	(NULL)		BTREE			YES	(NULL)
stationState	1	stationId_weatherTime	1	stationId	A	112	(NULL)	(NULL)		BTREE		Search for latest WeatherTime for a Station	YES	(NULL)
stationState	1	stationId_weatherTime	2	weatherTime	D	669260	(NULL)	(NULL)	YES	BTREE		Search for latest WeatherTime for a Station	YES	(NULL)

### Foreign Key Relationships

FK Id	Reference Table	Source Column	Target Column	Extra Info
fk_stationState_station	station	`stationId`	`ID`	

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### stationStateResampled

#### Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
stationId	int	(NULL)	NO	PRI	(NULL)		select,insert,update,references	
weatherHour	datetime	(NULL)	NO	PRI	(NULL)		select,insert,update,references	
status	varchar(45)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
available_bike_stands	int	(NULL)	YES		(NULL)		select,insert,update,references	
available_bikes	int	(NULL)	YES		(NULL)		select,insert,update,references	

#### Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment	Visible	Expression
stationStateResampled	0	PRIMARY	1	stationId	A	105	(NULL)	(NULL)		BTREE			YES	(NULL)
stationStateResampled	0	PRIMARY	2	weatherHour	A	90885	(NULL)	(NULL)		BTREE			YES	(NULL)

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### weatherHistory

#### Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
weatherTime	datetime	(NULL)	NO	PRI	(NULL)		select,insert,update,references	
latitude	float	(NULL)	NO		(NULL)		select,insert,update,references	
longitude	float	(NULL)	NO		(NULL)		select,insert,update,references	
main	varchar(45)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	

description	varchar(256)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
temp	float	(NULL)	YES		(NULL)		select,insert,update,references	
feels_like	float	(NULL)	YES		(NULL)		select,insert,update,references	
temp_min	float	(NULL)	YES		(NULL)		select,insert,update,references	
temp_max	float	(NULL)	YES		(NULL)		select,insert,update,references	
pressure	int	(NULL)	YES		(NULL)		select,insert,update,references	
humidity	int	(NULL)	YES		(NULL)		select,insert,update,references	
sea_level	int	(NULL)	YES		(NULL)		select,insert,update,references	
grnd_level	int	(NULL)	YES		(NULL)		select,insert,update,references	
wind_speed	float	(NULL)	YES		(NULL)		select,insert,update,references	
wind_deg	int	(NULL)	YES		(NULL)		select,insert,update,references	
wind_gust	float	(NULL)	YES		(NULL)		select,insert,update,references	
clouds_all	int	(NULL)	YES		(NULL)		select,insert,update,references	
country	varchar(64)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
name	varchar(128)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	

## Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment	Visible	Expression
weatherHistory	0	PRIMARY	1	weatherTime	A	28214	(NULL)	(NULL)		BTREE			YES	(NULL)

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## weatherHistoryResampled

### Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
weatherHour	datetime	(NULL)	NO	PRI	(NULL)		select,insert,update,references	
latitude	float	(NULL)	NO		(NULL)		select,insert,update,references	
longitude	float	(NULL)	NO		(NULL)		select,insert,update,references	
description	varchar(256)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
temp	float	(NULL)	YES		(NULL)		select,insert,update,references	
humidity	int	(NULL)	YES		(NULL)		select,insert,update,references	
wind_speed	float	(NULL)	YES		(NULL)		select,insert,update,references	

## Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment	Visible	Expression
weatherHistoryResampled	0	PRIMARY	1	weatherHour	A	846	(NULL)	(NULL)		BTREE			YES	(NULL)

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