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	Ergast Database User Guide
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	Version: 1.0
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	List of Tables		General Notes
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	circuits		Dates, times and durations are in ISO 8601 format
	constructorResults		Dates and times are UTC
	constructorStandings		Strings use UTF-8 encoding
	constructors		Primary keys are for internal use only
	driverStandings		Fields ending with "Ref" are unique identifiers for external use
	drivers		A grid position of '0' is used for starting from the pitlane
	lapTimes		Labels used in the positionText fields:
	pitStops		"D" - disqualified
	qualifying		"E" - excluded
	races		"F" - failed to qualify
	results		"N" - not classified
	seasons		"R" - retired
	status		"W" - withdrew
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circuits table

Field	Type	Null	Key	Default	Extra	Description
circuitId	int(11)	NO	PRI	NULL	auto_increment	Primary key
circuitRef	varchar(255)	NO				Unique circuit identifier
name	varchar(255)	NO				Circuit name
location	varchar(255)	YES		NULL		Location name
country	varchar(255)	YES		NULL		Country name
lat	float	YES		NULL		Latitude
lng	float	YES		NULL		Longitude
alt	int(11)	YES		NULL		Altitude (metres)
url	varchar(255)	NO	UNI			Circuit Wikipedia page

constructor\_results table

Field	Type	Null	Key	Default	Extra	Description
constructorResultsId	int(11)	NO	PRI	NULL	auto_increment	Primary key
raceId	int(11)	NO		0		Foreign key link to races table
constructorId	int(11)	NO		0		Foreign key link to constructors table

points	float	YES		NULL		Constructor points for race
status	varchar(255)	YES		NULL		"D" for disqualified (or null)

constructor\_standings table

Field	Type	Null	Key	Default	Extra	Description
constructorStandingsId	int(11)	NO	PRI	NULL	auto_increment	Primary key
raceId	int(11)	NO		0		Foreign key link to races table
constructorId	int(11)	NO		0		Foreign key link to constructors table
points	float	NO		0		Constructor points for season
position	int(11)	YES		NULL		Constructor standings position (integer)
positionText	varchar(255)	YES		NULL		Constructor standings position (string)
wins	int(11)	NO		0		Season win count

constructors table

Field	Type	Null	Key	Default	Extra	Description
constructorId	int(11)	NO	PRI	NULL	auto_increment	Primary key
constructorRef	varchar(255)	NO				Unique constructor identifier
name	varchar(255)	NO	UNI			Constructor name
nationality	varchar(255)	YES		NULL		Constructor nationality
url	varchar(255)	NO				Constructor Wikipedia page

driver\_standings table

Field	Type	Null	Key	Default	Extra	Description
driverStandingsId	int(11)	NO	PRI	NULL	auto_increment	Primary key
raceId	int(11)	NO		0		Foreign key link to races table
driverId	int(11)	NO		0		Foreign key link to drivers table
points	float	NO		0		Driver points for season
position	int(11)	YES		NULL		Driver standings position (integer)
positionText	varchar(255)	YES		NULL		Driver standings position (string)
wins	int(11)	NO		0		Season win count

drivers table

Field	Type	Null	Key	Default	Extra	Description
driverId	int(11)	NO	PRI	NULL	auto_increment	Primary key
driverRef	varchar(255)	NO				Unique driver identifier
number	int(11)	YES		NULL		Permanent driver number
code	varchar(3)	YES		NULL		Driver code e.g. "ALO"

forename	varchar(255)	NO				Driver forename
surname	varchar(255)	NO				Driver surname
dob	date	YES		NULL		Driver date of birth
nationality	varchar(255)	YES		NULL		Driver nationality
url	varchar(255)	NO	UNI			Driver Wikipedia page

## lap\_times table

Field	Type	Null	Key	Default	Extra	Description
raceId	int(11)	NO	PRI	NULL		Foreign key link to races table
driverId	int(11)	NO	PRI	NULL		Foreign key link to drivers table
lap	int(11)	NO	PRI	NULL		Lap number
position	int(11)	YES		NULL		Driver race position
time	varchar(255)	YES		NULL		Lap time e.g. "1:43.762"
milliseconds	int(11)	YES		NULL		Lap time in milliseconds

## pit\_stops table

Field	Type	Null	Key	Default	Extra	Description
raceId	int(11)	NO	PRI	NULL		Foreign key link to races table
driverId	int(11)	NO	PRI	NULL		Foreign key link to drivers table
stop	int(11)	NO	PRI	NULL		Stop number
lap	int(11)	NO		NULL		Lap number
time	time	NO		NULL		Time of stop e.g. "13:52:25"
duration	varchar(255)	YES		NULL		Duration of stop e.g. "21.783"
milliseconds	int(11)	YES		NULL		Duration of stop in milliseconds

## qualifying table

Field	Type	Null	Key	Default	Extra	Description
qualifyId	int(11)	NO	PRI	NULL	auto_increment	Primary key
raceId	int(11)	NO		0		Foreign key link to races table
driverId	int(11)	NO		0		Foreign key link to drivers table
constructorId	int(11)	NO		0		Foreign key link to constructors table
number	int(11)	NO		0		Driver number
position	int(11)	YES		NULL		Qualifying position
q1	varchar(255)	YES		NULL		Q1 lap time e.g. "1:21.374"
q2	varchar(255)	YES		NULL		Q2 lap time
q3	varchar(255)	YES		NULL		Q3 lap time

## races table

Field	Type	Null	Key	Default	Extra	Description
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Field	Type	Null	Key	Default	Extra	Description
raceId	int(11)	NO	PRI	NULL	auto_increment	Primary key
year	int(11)	NO		0		Foreign key link to seasons table
round	int(11)	NO		0		Round number
circuitId	int(11)	NO		0		Foreign key link to circuits table
name	varchar(255)	NO				Race name
date	date	NO		0000-00-00		Race date e.g. "1950-05-13"
time	time	YES		NULL		Race start time e.g. "13:00:00"
url	varchar(255)	YES	UNI	NULL		Race Wikipedia page

## results table

Field	Type	Null	Key	Default	Extra	Description
resultId	int(11)	NO	PRI	NULL	auto_increment	Primary key
raceId	int(11)	NO		0		Foreign key link to races table
driverId	int(11)	NO		0		Foreign key link to drivers table
constructorId	int(11)	NO		0		Foreign key link to constructors table
number	int(11)	YES		NULL		Driver number
grid	int(11)	NO		0		Starting grid position
position	int(11)	YES		NULL		Official classification, if applicable
positionText	varchar(255)	NO				Driver position string e.g. "1" or "R"
positionOrder	int(11)	NO		0		Driver position for ordering purposes
points	float	NO		0		Driver points for race
laps	int(11)	NO		0		Number of completed laps
time	varchar(255)	YES		NULL		Finishing time or gap
milliseconds	int(11)	YES		NULL		Finishing time in milliseconds
fastestLap	int(11)	YES		NULL		Lap number of fastest lap
rank	int(11)	YES		0		Fastest lap rank, compared to other drivers
fastestLapTime	varchar(255)	YES		NULL		Fastest lap time e.g. "1:27.453"
fastestLapSpeed	varchar(255)	YES		NULL		Fastest lap speed (km/h) e.g. "213.874"
statusId	int(11)	NO		0		Foreign key link to status table

## seasons table

Field	Type	Null	Key	Default	Extra	Description
year	int(11)	NO	PRI	0		Primary key e.g. 1950
url	varchar(255)	NO	UNI			Season Wikipedia page

## status table

Field	Type	Null	Key	Default	Extra	Description
statusId	int(11)	NO	PRI	NULL	auto_increment	Primary key

status	varchar(255)	NO				Finishing status e.g. "Retired"	
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