Ergast Database User Guide Version: 1.0 Date: 31 January 2021 Author: Chris Newell

List of Tables circuits constructorResults constructorStandings constructors driverStandings drivers lapTimes pitStops qualifying races results seasons status

General Notes Dates, times and durations are in ISO 8601 format Dates and times are UTC Strings use UTF-8 encoding Primary keys are for internal use only Fields ending with "Ref" are unique identifiers for external use A grid position of '0' is used for starting from the pitlane Labels used in the positionText fields: "D" - disqualified "E" - excluded "F" - failed to qualify "N" - not classified "R" - retired "W" - withdrew

### circuits table

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

### constructor\_results table

		L _				
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)	VES	l i	NIIT.T.	l i	"D" for disqualified (or null)

### constructor standings table

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

## constructors table

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

### driver\_standings table

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

	Null	Key	D.C. 31		, ,
Field		+	Default +	Extra +	Description
number int(12) code varcha forename varcha surname varcha dob date nationality varcha	ar(255)   NO l)   YES	PRI   	NULL  NULL  NULL  NULL  NULL  NULL	auto_increment	Primary key Unique driver identifier Permanent driver number Driver code e.g. "ALO" Driver forename Driver surname Driver date of birth Driver nationality Driver Wikipedia page

## lap times table

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

trerd	Type	r ant i	Key	Delault  -	L EXTIA	Description
+	int(11) int(11) int(11) int(11) int(11) time varchar(255) int(11)	+	PRI PRI PRI		<del> </del>	Foreign key link to races table Foreign key link to drivers table Stop number Lap number Time of stop e.g. "13:52:25" Duration of stop e.g. "21.783" Duration of stop in milliseconds
+		+	 		}	t

## qualifying table

+	+		⊦	+		+	t	+
   F: +	ield	Туре	Null	Key	Default	Extra	Description	  -
r;   d:   c;   n;   p;   q:	2	int(11) int(11) int(11) int(11) int(11) int(11) varchar(255) varchar(255)	NO NO NO NO NO YES YES	+   PRI         	NULL   0   0   0   0   NULL   NULL   NULL	+   auto_increment         	Primary key Foreign key link to races table Foreign key link to drivers table Foreign key link to constructors table Driver number Qualifying position Q1 lap time e.g. "1:21.374"	+
q:	3	varchar(255)	YES		NULL		Q3 lap time	

# races table

1	L	ь.	L ±	L .	<u>.</u>	1
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	İ	0		Round number
circuitId	int(11)	NO	j	0		Foreign key link to circuits table
name	varchar(255)	NO	j			Race name
date	date	NO	İ	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
fp1_date	date	YES		NULL		FP1 date
fp1_time	time	YES		NULL		FP1 start time
fp2_date	date	YES		NULL		FP2 date
fp2_time	time	YES		NULL		FP2 start time
fp3_date	date	YES		NULL		FP3 date
fp3_time	time	YES		NULL		FP3 start time
quali_date	date	YES		NULL		Qualifying date
quali_time	time	YES		NULL		Qualifying start time
sprint_date	date	YES		NULL		Sprint date
sprint_time	time	YES		NULL		Sprint start time

Field	Туре	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	ĺ	0		Foreign key link to drivers table
constructorId	int(11)	NO		0		Foreign key link to constructors table
number	int(11)	YES	ĺ	NULL		Driver number
grid	int(11)	NO	ĺ	0		Starting grid position
position	int(11)	YES	ĺ	NULL		Official classification, if applicable
positionText	varchar(255)	NO				Driver position string e.g. "1" or "R"
positionOrder	int(11)	NO	ĺ	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 driver
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

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

Primary key e.g. 1950

seasons table

year

| int(11)

url	varchar(255)	NO	UNI	 +-	Season Wik	ipedia page
status ta	able			·	·	·
+   Field +	+   Type +	+   Nu] +	+ ll   Key	-+   Default -+	-+	++   Description

| Null | Key | Default | Extra | Description

PRI 0

Field	Туре		_	Default	Extra +	Description
statusId     status		NO	PRI		auto_increment	Primary key   Finishing status e.g. "Retired"