U8049 Complex and Structure Data Coursework Part 2
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Table of contents:

Introduction:
Following the first part of the course work I must now implement the database I have designed. The original design was as follows:
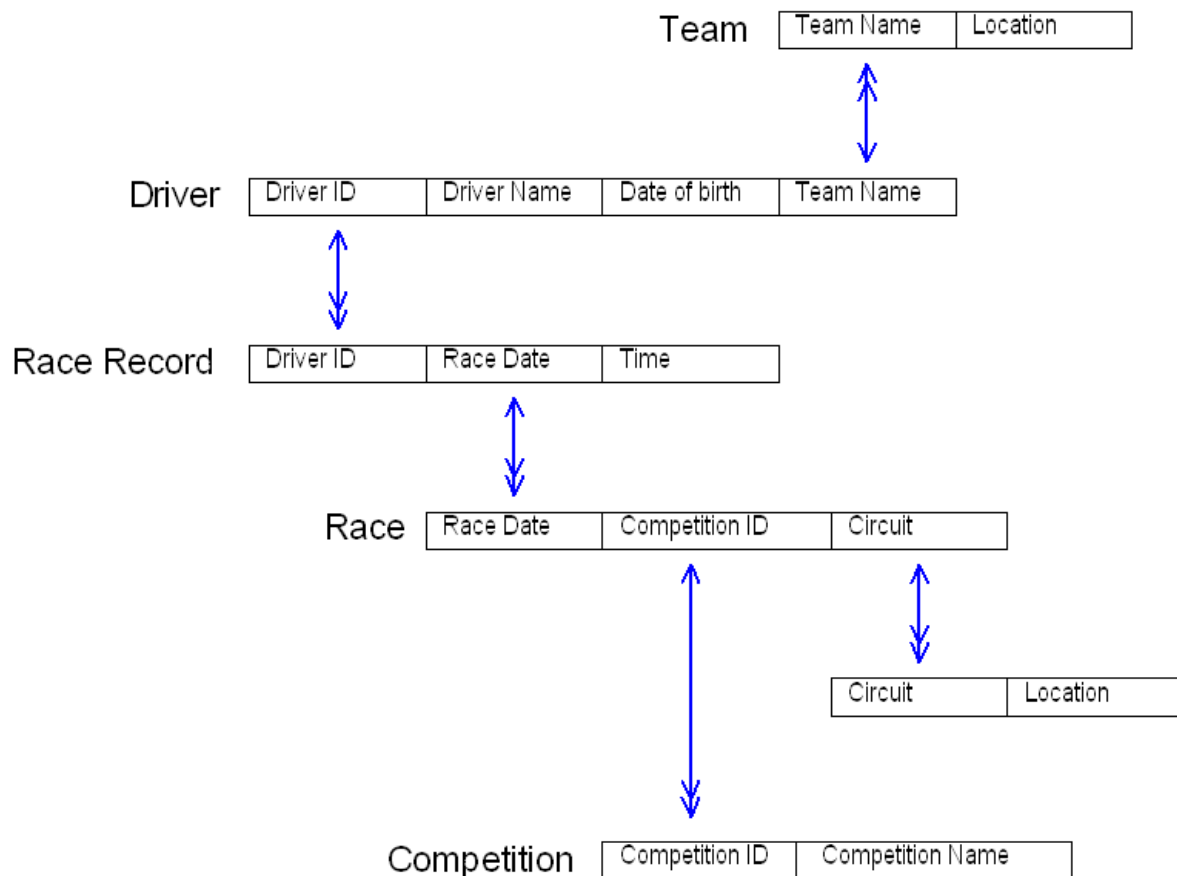
I have however decided to make a slight alteration to the above design to make the database more usable when programming in SQL directly. The Race Record entity currently only stores the race date and race time. If I were to implement a layer above the database in a higher level language such as Python it would be trivial to allocate points for each race based on the race time, however this is very involved when using a declarative language such as SQL. I have decided to add and additional field to the Race Record entity to store the points for a given driver on a given race, as such the Race Record entity is as follows:

The new field "points" will store the points for the driver on that race in the following order of magnitude:

1st = 25
2nd = 18
3rd = 15
4th = 12
5th = 10
6th = 8
7th = 6
8th = 4
9th = 2
10th = 1

Construction of tables:

Driver Table

/*Creation of the table DRIVER with the following specification:
DRIVER_ID   -integer   -   primary key   -   foreign key for RACE_RECORD table
DRIVER_NAME   -text   -   not null
DOB   -Date   -   not null
TEAM_NAME   -text   -   foreign key for TEAM table
*/

create table DRIVER (
DRIVER_ID integer not null primary key,
DRIVER_NAME text not null,
DOB date not null,
TEAM_NAME text,
constraint fkey1_dr foreign key(TEAM_NAME) references TEAM(TEAM_NAME)
constraint fkey2_dr foreign key(DRIVER_ID) references RACE_RECORD(DRIVER_ID));

Team Table

/*Creation of the table TEAM with the following specification:
TEAM_NAME   -text   -   not null   -   primary key
LOCATION   -text   -   not null
*/
create table TEAM (
TEAM_NAME text not null primary key,
LOCATION text not null);

Race Record Table

/*Creation of the table RACE_RECORD with the following specification:
DRIVER_ID   -integer   -   not null   -   primary key
RACE_DATE   -date   -   not null   -   primary key   -   foreign key for RACE table
RACE_TIME   -time
*/
create table RACE_RECORD (
DRIVER_ID integer not null,
RACE_DATE date not null,
RACE_TIME time,
POINTS integer,
constraint pkey_is primary key (DRIVER_ID, RACE_DATE)
constraint fkey1_rr foreign key (RACE_DATE) references RACE(RACE_DATE));

Race Table

/*Creation of the table RACE with the following specification:
RACE_DATE   -date   -   not null   -   primary key
COMPETITION_ID -integer -   not null   -   foreign key for COMPETITION table
CIRCUIT_NAME   -text   -   not null   -   foreign key for CIRCUIT table
*/
create table RACE (
RACE_DATE date not null primary key,
COMPETITION_ID integer not null,
CIRCUIT_NAME text not null,
constraint fkey1_ra foreign key (COMPETITION_ID) references
COMPETITION(COMPETITION_ID)
constraint fkey2_ra foreign key (CIRCUIT_NAME) references CIRCUIT(CIRCUIT_NAME));

Circuit Table

/*Creation of the table CIRCUIT with the following specification:
CIRCUIT_NAME   -text   -   not null   -   primary key
LOCATION   -text   -   not null
*/
create table CIRCUIT (
CIRCUIT_NAME text not null primary key,
LOCATION text not null);

Competition Table

/*Creation of the table COMPETITION with the following specification:
COMPETITION_ID   -integer   -   not null   -   primary key
COMPETITION_NAME   -text   -   not null
*/
create table COMPETITION (
COMPETITION_ID integer not null primary key,
COMPETITION_NAME text not null);

For the data that is to populate these tables please see Appendix 1.

Queries:

Bearing in mind that this system is to aid the management of F1 I have implemented the following queries that may be useful:

1. Show the driver leader board for a given championship.
2. Show the team leader board for a given championship.
3. Display how many points on average all each driver gets per race
4. Display the quickest race time for each circuit

All illustrative test runs of the above queries can be found in Appendix 2.

Implementation:

1. Driver leaderboard query

```
/*
PROCESS:    Displays the leaderboard for a given championship
FILE:       leaderBoard.sql
PRE:        Database is relationally consistent
POST:       No change to database
IN:         COMPETITION_ID
OUT:        List of drivers and their points for a given championship listed in descending order
LOGIC:      Join DRIVER and RACE_RECORD using DRIVER_ID
            Join RACE_RECORD to RACE using RACE_DATE
            Project the DRIVER_NAME and the sum of POINTS grouped by DRIVER_NAME and
            in descending order
*/
select DRIVER_NAME, sum(POINTS)
from DRIVER,RACE_RECORD,RACE
       where ((DRIVER.DRIVER_ID = RACE_RECORD.DRIVER_ID)
              and (RACE_RECORD.RACE_DATE = RACE.RACE_DATE)
              and (COMPETITION_ID = 001))
group by DRIVER_NAME
order by sum(POINTS) DESC;
```

2. Team leaderboard query

```
/*
PROCESS:    Displayes the leaderboard for a given championship
FILE:       teamleaderBoard.sql
PRE:        Database is relationally consistent
POST:       No change to database
IN:         COMPETITION_ID
OUT:        List of teams and their points for a given championship listed in descending order
LOGIC:      Join DRIVER and RACE_RECORD using DRIVER_ID
            Join RACE_RECORD to RACE using RACE_DATE
            Project the TEAM_NAME and the sum of POINTS grouped by TEAM_NAME and in
            descending order
*/
select TEAM_NAME, sum(POINTS)
from DRIVER,RACE_RECORD,RACE
      where ((DRIVER.DRIVER_ID = RACE_RECORD.DRIVER_ID)
            and (RACE_RECORD.RACE_DATE = RACE.RACE_DATE)
            and (COMPETITION_ID = 001))
group by TEAM_NAME
order by sum(POINTS) DESC;
```

3. Driver average points query

```
/*
PROCESS:    Displays average points per race for each driver
FILE:       averagePoints.sql
PRE:        Database is relationally consistent
POST:       No change to database
IN:         None
OUT:        Table of all drivers that have completed a race and their respective
            average amount of points per race
LOGIC:      Join Driver and Race_Record entities using DRIVER_ID
            Project the average points grouped by the driver name
*/

select DRIVER_NAME, avg(POINTS)
from DRIVER,RACE_RECORD
      where DRIVER.DRIVER_ID = RACE_RECORD.DRIVER_ID
group by DRIVER_NAME;
```

4. Circuits quickest race time query

```
/*
PROCESS:    Quickest times for each circuit
FILE:       quickestTime.sql
PRE:        Database is relationally consistent
POST:       No change to database
IN:         None
OUT:        Table of all circuits which have had a race take place on them with the
            circuits quickest lap times.
LOGIC:      Join Race and Race_Record using Race_Date
            Project circuit name and and the quickest time grouped my circuit name
*/

select CIRCUIT_NAME,min(RACE_TIME)
from RACE,RACE_RECORD
        where RACE.RACE_DATE = RACE_RECORD.RACE_DATE
group by RACE.CIRCUIT_NAME;
```

Transactions:

I have implemented the following transactions:

Delete Transactions:

1. Remove Driver
2. Remove Race Record
3. Remove Race
4. Remove Team
5. Remove Circuit
6. Remove Championship

Insert transaction:

1. Insert Driver
2. Insert Race Record

More insertion transactions could have been added but they will all be much the same.

All illustrative test runs of the above transactions can be found in Appendix 3.

Delete Transactions:

1. Remove Driver Transaction

```
/*
PROCESS:    Removes a driver from the database
FILE:       deleteDriver.sql
PRE:        Database is relationally consistent,
            the driver exists in the database
POST:       Driver in question is removed from the database along with
            all references to him/her
IN:         Driver ID (cannot do macros/prompts in SQLite3)
OUT:        None, just database modification
LOGIC:      Every race record belonging to the given driver is removed
            The Driver is removed
*/
begin transaction;
delete from RACE_RECORD where (DRIVER_ID = 016);
delete from DRIVER where(DRIVER_ID = 016);
commit;
```

2. Remove Race Record Transaction

```
/*
PROCESS:    Removes a race record for a given driver and a given race
FILE:       deleteRaceRecord.sql
PRE:        Database is relationally consistent,
            the Race Record exists in the database
POST:       Race Record in question is removed from the database.
IN:         Driver ID (cannot do macros/prompts in SQLite3)
            Race Date
OUT:        None, just database modification
LOGIC:      Simple delete function of the given race record
*/
begin transaction;
delete from RACE_RECORD where ((DRIVER_ID = 003) AND ( RACE_DATE = '24-Nov-2013'));
commit;
```

3. Remove Race Transaction

```
/*
PROCESS:    Removes a Race from the database
FILE:       deleteRace.sql
PRE:        Database is relationally consistent,
            the Race exists in the database
POST:       Race in question is removed from the database along with
            all references to him/her
IN:         Race Date (cannot do macros/prompts in SQLite3)
OUT:        None, just database modification
LOGIC:      Every race record referencing the given Race is removed
            The Race is removed
*/
begin transaction;
delete from RACE_RECORD where (RACE_DATE = '17-Mar-2013');
delete from RACE where (RACE_DATE = '17-Mar-2013');
commit;
```

4. Remove Team Transaction

```
/*
PROCESS:    Removes a Team from the database
FILE:       deleteTeam.sql
PRE:        Database is relationally consistent,
            the Team exists in the database
POST:       Team in question is removed from the database.
            Any driver belonging to that team is allocated another
            predefined team
IN:         Team name to be deleted (cannot do macros/prompts in SQLite3)
            Team name to allocate drivers from the deleted team
OUT:        None, just database modification
LOGIC:      Allocate another team for all drivers that belong to the
            team to be deleted.
            Delete the team
*/
begin transaction;
update DRIVER
set TEAM_NAME = 'Vodafone McLaren Mercedes'
where TEAM_NAME = 'Infiniti Red Bull Racing';
delete from TEAM where( TEAM_NAME = 'Infiniti Red Bull Racing');
commit;
```

5. Remove Circuit Transaction

```
/*
PROCESS:      Removes a circuit from the database
FILE:         deleteCircuit.sql
PRE:          Database is relationally consistent,
              the Circuit exists in the database
POST:         The circuit removed from the database
              All races on that circuit removed
              All instances of Race Record on that circuit removed
IN:           Circuit_Name (cannot do macros/prompts in SQLite3)
OUT:          None, just database modification
LOGIC:        Delete all instances of Race Record where the race date
              corresponds to a race that was on the circuit to be deleted
              Delete all races on that circuit
              Delete the circuit
*/
begin transaction;
delete from RACE_RECORD where exists (
        select * from RACE
                where RACE.RACE_DATE = RACE_RECORD.RACE_DATE
                and RACE.CIRCUIT_NAME = 'Bahrain International Circuit');
delete from RACE where (CIRCUIT_NAME = 'Bahrain International Circuit');
delete from CIRCUIT where (CIRCUIT_NAME = 'Bahrain International Circuit');
commit;
```

6. Remove Competition Transaction

```
/*
PROCESS:     Removes a competition from the database
FILE:        deleteCompetition.sql
PRE:         Database is relationally consistent,
             the competition exists in the database
POST:        The competition removed from the database
             All races in that competition removed
             All instances of Race Record in that competition removed
IN:          Competition_ID (cannot do macros/prompts in SQLite3)
OUT:         None, just database modification
LOGIC:       Delete all instances of Race Record where the race date
             corresponds to a race that was part of the competition to be deleted
             Delete all races in that competition
             Delete the competition
*/
begin transaction;
delete from RACE_RECORD where exists(
        select * from RACE
        where RACE.RACE_DATE = RACE_RECORD.RACE_DATE
        and RACE.COMPETITION_ID = 002);
delete from RACE where (COMPETITION_ID = 002);
delete from COMPETITION where (COMPETITION_ID = 002);
commit;
```

Insert Transaction:

1. Insert Driver Transaction

```
/*
PROCESS:     Simple driver insertion
FILE:        insertDriver.sql
PRE:         Database is relationally consistent,
             Team name must exist
POST:        Driver inserted
IN:          Driver_name
             Driver_Id
             DOB
             Team_name
OUT:         None, just database modification
LOGIC:       Simple insertion transaction
*/

insert into DRIVER
        values(100,'Lee Hudson','13-08-1984','Scuderia Ferrari');
```

2. Insert Race Record Transaction

```
/*
PROCESS:    Simple race_record insertion
FILE:       insertRaceRecord.sql
PRE:        Database is relationally consistent,
            Race with race_date must exist
            Driver ID must exist
POST:       race_record inserted
IN:         Driver_Id
            Race_Date
            Race_Time
            Points
OUT:        None, just database modification
LOGIC:      Simple insertion transaction
*/

insert into RACE_RECORD
        values(100,'17-Mar-2013','02:27:03.12',0);
```

APPENDIX 1:

DRIVER DATA:

001,Sebastian Vettel,03-Jul-87,Infiniti Red Bull Racing
002,Mark Webber,27-Aug-76,Infiniti Red Bull Racing
003,Fernando Alonso,29-Jul-81,Scuderia Ferrari
004,Felipe Massa,25-Apr-81,Scuderia Ferrari
005,Jenson Button,19-Jan-80,Vodafone McLaren Mercedes
006,Sergio Perez,26-Jan-90,Vodafone McLaren Mercedes
007,Kimi Raikkonen,17-Oct-79,Lotus F1 Team
008,Romain Grosjean,17-Apr-86,Lotus F1 Team
009,Nico Rosberg,27-Jun-85,Mercedes AMG Petronas F1 Team
010,Lewis Hamilton,07-Jan-85,Mercedes AMG Petronas F1 Team
011,Nico Hulkenberg,19-Aug-87,Sauber F1 Team
012,Esteban Gutierrez,5-Aug-91,Sauber F1 Team
013,Paul di Resta,16-Apr-86,Sahara Force India F1 Team
014,Adrian Sutil,11-Jan-83,Sahara Force India F1 Team
015,Pastor Maldonado,10-Mar-85,Williams F1 Team
016,Valtteri Bottas,28-Aug-89,Williams F1 Team
017,Jean-Eric Vergne,25-Apr-90,Scuderia Toro Rosso
018,Daniel Ricciardo,01-Jul-89,Scuderia Toro Rosso
019,Charles Pic,15-Feb-90,Caterham F1 Team
020,Giedo van der Garde,25-Apr-85,Caterham F1 Team
021,Jules Bianchi,03-Aug-89,Marussia F1 Team
022,Max Chilton,21-Apr-91,Marussia F1 Team

TEAM DATA:

Infiniti Red Bull Racing,Austria
Scuderia Ferrari,Italy
Vodafone McLaren Mercedes,United Kingdon
Lotus F1 Team,United Kingdom
Mercedes AMG Petronas F1 Team,Germany
Sauber F1 Team,Switzerland
Sahara Force India F1 Team,India
Williams F1 Team,United Kingdom
Scuderia Toro Rosso,Italy
Caterham F1 Team,Malaysia
Marussia F1 Team,Russia

RACE RECORD DATA:

007,17-Mar-2013,01:30:03.22,25
003,17-Mar-2013,01:42:03.34,18
001,17-Mar-2013,01:51:03.23,15
004,17-Mar-2013,01:59:03.12,12
010,17-Mar-2013,02:02:03.35,10
002,17-Mar-2013,02:08:03.54,8
009,17-Mar-2013,02:09:03.56,6
014,17-Mar-2013,02:09:04.19,4
005,17-Mar-2013,02:09:05.35,2
008,17-Mar-2013,02:09:07.35,1
006,17-Mar-2013,02:12:03.21,0
018,17-Mar-2013,02:12:04.22,0
012,17-Mar-2013,02:14:03.15,0
017,17-Mar-2013,02:15:03.16,0
022,17-Mar-2013,02:17:03.17,0
020,17-Mar-2013,02:17:05.43,0
023,17-Mar-2013,02:17:09.53,0
021,17-Mar-2013,02:18:03.54,0
019,17-Mar-2013,02:19:03.43,0
015,17-Mar-2013,02:22:03.32,0
016,17-Mar-2013,02:23:03.31,0
011,17-Mar-2013,02:25:03.12,0
008,24-Mar-2013,01:30:03.22,25
015,24-Mar-2013,01:42:03.34,18
010,24-Mar-2013,01:51:03.23,15
002,24-Mar-2013,01:59:03.12,12
004,24-Mar-2013,02:02:03.35,10
001,24-Mar-2013,02:08:03.54,8
007,24-Mar-2013,02:09:03.56,6
011,24-Mar-2013,02:09:04.19,4
006,24-Mar-2013,02:09:05.35,2
018,24-Mar-2013,02:09:07.35,1
017,24-Mar-2013,02:12:03.21,0
012,24-Mar-2013,02:12:04.22,0
022,24-Mar-2013,02:14:03.15,0
020,24-Mar-2013,02:15:03.16,0
021,24-Mar-2013,02:17:03.17,0
023,24-Mar-2013,02:17:05.43,0
005,24-Mar-2013,02:17:09.53,0
019,24-Mar-2013,02:18:03.54,0
016,24-Mar-2013,02:19:03.43,0

009,24-Mar-2013,02:22:03.32,0
014,24-Mar-2013,02:23:03.31,0
003,24-Mar-2013,02:25:03.12,0
002,14-Apr-2013,01:30:03.22,25
001,14-Apr-2013,01:42:03.34,18
004,14-Apr-2013,01:51:03.23,15
015,14-Apr-2013,01:59:03.12,12
010,14-Apr-2013,02:02:03.35,10
008,14-Apr-2013,02:08:03.54,8
007,14-Apr-2013,02:09:03.56,6
011,14-Apr-2013,02:09:04.19,4
018,14-Apr-2013,02:09:05.35,2
006,14-Apr-2013,02:09:07.35,1
017,14-Apr-2013,02:12:03.21,0
012,14-Apr-2013,02:12:04.22,0
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020,14-Apr-2013,02:15:03.16,0
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004,21-Apr-2013,01:59:03.12,12
015,21-Apr-2013,02:02:03.35,10
011,21-Apr-2013,02:08:03.54,8
007,21-Apr-2013,02:09:03.56,6
008,21-Apr-2013,02:09:04.19,4
006,21-Apr-2013,02:09:05.35,2
018,21-Apr-2013,02:09:07.35,1
017,21-Apr-2013,02:12:03.21,0
012,21-Apr-2013,02:12:04.22,0
022,21-Apr-2013,02:14:03.15,0
020,21-Apr-2013,02:15:03.16,0
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023,21-Apr-2013,02:17:05.43,0
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019,21-Apr-2013,02:18:03.54,0
016,21-Apr-2013,02:19:03.43,0
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014,21-Apr-2013,02:23:03.31,0
003,21-Apr-2013,02:25:03.12,0

015,12-May-2013,01:30:03.22,25
010,12-May-2013,01:42:03.34,18
004,12-May-2013,01:51:03.23,15
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007,12-May-2013,02:09:03.56,6
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018,12-May-2013,02:09:07.35,1
017,12-May-2013,02:12:03.21,0
012,12-May-2013,02:12:04.22,0
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019,12-May-2013,02:18:03.54,0
016,12-May-2013,02:19:03.43,0
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014,12-May-2013,02:23:03.31,0
003,12-May-2013,02:25:03.12,0
008,26-May-2013,01:30:03.22,25
002,26-May-2013,01:42:03.34,18
010,26-May-2013,01:51:03.23,15
015,26-May-2013,01:59:03.12,12
004,26-May-2013,02:02:03.35,10
001,26-May-2013,02:08:03.54,8
007,26-May-2013,02:09:03.56,6
011,26-May-2013,02:09:04.19,4
006,26-May-2013,02:09:05.35,2
018,26-May-2013,02:09:07.35,1
017,26-May-2013,02:12:03.21,0
012,26-May-2013,02:12:04.22,0
022,26-May-2013,02:14:03.15,0
020,26-May-2013,02:15:03.16,0
021,26-May-2013,02:17:03.17,0
023,26-May-2013,02:17:05.43,0
005,26-May-2013,02:17:09.53,0
019,26-May-2013,02:18:03.54,0
016,26-May-2013,02:19:03.43,0
009,26-May-2013,02:22:03.32,0
014,26-May-2013,02:23:03.31,0
003,26-May-2013,02:25:03.12,0
004,09-Jun-2013,01:30:03.22,25
001,09-Jun-2013,01:42:03.34,18
015,09-Jun-2013,01:51:03.23,15

008,09-Jun-2013,01:59:03.12,12
002,09-Jun-2013,02:02:03.35,10
010,09-Jun-2013,02:08:03.54,8
007,09-Jun-2013,02:09:03.56,6
011,09-Jun-2013,02:09:04.19,4
006,09-Jun-2013,02:09:05.35,2
018,09-Jun-2013,02:09:07.35,1
017,09-Jun-2013,02:12:03.21,0
012,09-Jun-2013,02:12:04.22,0
022,09-Jun-2013,02:14:03.15,0
020,09-Jun-2013,02:15:03.16,0
021,09-Jun-2013,02:17:03.17,0
023,09-Jun-2013,02:17:05.43,0
005,09-Jun-2013,02:17:09.53,0
019,09-Jun-2013,02:18:03.54,0
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004,30-Jun-2013,02:02:03.35,10
008,30-Jun-2013,02:08:03.54,8
007,30-Jun-2013,02:09:03.56,6
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018,30-Jun-2013,02:09:07.35,1
017,30-Jun-2013,02:12:03.21,0
012,30-Jun-2013,02:12:04.22,0
022,30-Jun-2013,02:14:03.15,0
020,30-Jun-2013,02:15:03.16,0
021,30-Jun-2013,02:17:03.17,0
023,30-Jun-2013,02:17:05.43,0
005,30-Jun-2013,02:17:09.53,0
019,30-Jun-2013,02:18:03.54,0
016,30-Jun-2013,02:19:03.43,0
009,30-Jun-2013,02:22:03.32,0
014,30-Jun-2013,02:23:03.31,0
003,30-Jun-2013,02:25:03.12,0
001,07-Jul-2013,01:30:03.22,25
002,07-Jul-2013,01:42:03.34,18
010,07-Jul-2013,01:51:03.23,15
015,07-Jul-2013,01:59:03.12,12
004,07-Jul-2013,02:02:03.35,10
008,07-Jul-2013,02:08:03.54,8

007,07-Jul-2013,02:09:03.56,6
011,07-Jul-2013,02:09:04.19,4
006,07-Jul-2013,02:09:05.35,2
018,07-Jul-2013,02:09:07.35,1
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008,28-Jul-2014,02:08:03.54,8
007,28-Jul-2014,02:09:03.56,6
011,28-Jul-2014,02:09:04.19,4
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007,25-Aug-2014,02:09:03.56,6
011,25-Aug-2014,02:09:04.19,4
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018,25-Aug-2014,02:09:07.35,1
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015,22-Sep-2014,01:59:03.12,12
004,22-Sep-2014,02:02:03.35,10
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007,22-Sep-2014,02:09:03.56,6
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020,22-Sep-2014,02:15:03.16,0
021,22-Sep-2014,02:17:03.17,0
023,22-Sep-2014,02:17:05.43,0
005,22-Sep-2014,02:17:09.53,0

019,22-Sep-2014,02:18:03.54,0
016,22-Sep-2014,02:19:03.43,0
009,22-Sep-2014,02:22:03.32,0
014,22-Sep-2014,02:23:03.31,0
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004,06-Oct-2014,02:02:03.35,10
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007,06-Oct-2014,02:09:03.56,6
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005,06-Oct-2014,02:17:09.53,0
019,06-Oct-2014,02:18:03.54,0
016,06-Oct-2014,02:19:03.43,0
009,06-Oct-2014,02:22:03.32,0
014,06-Oct-2014,02:23:03.31,0
003,06-Oct-2014,02:25:03.12,0
002,13-Oct-2014,01:30:03.22,25
010,13-Oct-2014,01:42:03.34,18
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004,13-Oct-2014,01:59:03.12,12
015,13-Oct-2014,02:02:03.35,10
008,13-Oct-2014,02:08:03.54,8
007,13-Oct-2014,02:09:03.56,6
011,13-Oct-2014,02:09:04.19,4
006,13-Oct-2014,02:09:05.35,2
018,13-Oct-2014,02:09:07.35,1
017,13-Oct-2014,02:12:03.21,0
012,13-Oct-2014,02:12:04.22,0
022,13-Oct-2014,02:14:03.15,0
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021,13-Oct-2014,02:17:03.17,0
023,13-Oct-2014,02:17:05.43,0
005,13-Oct-2014,02:17:09.53,0
019,13-Oct-2014,02:18:03.54,0
016,13-Oct-2014,02:19:03.43,0
009,13-Oct-2014,02:22:03.32,0

014,13-Oct-2014,02:23:03.31,0
003,13-Oct-2014,02:25:03.12,0
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010,27-Oct-2014,01:42:03.34,18
002,27-Oct-2014,01:51:03.23,15
008,27-Oct-2014,01:59:03.12,12
004,27-Oct-2014,02:02:03.35,10
015,27-Oct-2014,02:08:03.54,8
007,27-Oct-2014,02:09:03.56,6
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018,27-Oct-2014,02:09:07.35,1
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019,27-Oct-2014,02:18:03.54,0
016,27-Oct-2014,02:19:03.43,0
009,27-Oct-2014,02:22:03.32,0
014,27-Oct-2014,02:23:03.31,0
003,27-Oct-2014,02:25:03.12,0
010,03-Nov-2014,01:30:03.22,25
001,03-Nov-2014,01:42:03.34,18
002,03-Nov-2014,01:51:03.23,15
018,03-Nov-2014,01:59:03.12,12
004,03-Nov-2014,02:02:03.35,10
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007,03-Nov-2014,02:09:03.56,6
011,03-Nov-2014,02:09:04.19,4
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015,03-Nov-2014,02:09:07.35,1
017,03-Nov-2014,02:12:03.21,0
012,03-Nov-2014,02:12:04.22,0
022,03-Nov-2014,02:14:03.15,0
020,03-Nov-2014,02:15:03.16,0
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016,03-Nov-2014,02:19:03.43,0
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014,03-Nov-2014,02:23:03.31,0
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015,17-Nov-2014,01:59:03.12,12
004,17-Nov-2014,02:02:03.35,10
008,17-Nov-2014,02:08:03.54,8
007,17-Nov-2014,02:09:03.56,6
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017,17-Nov-2014,02:12:03.21,0
012,17-Nov-2014,02:12:04.22,0
022,17-Nov-2014,02:14:03.15,0
020,17-Nov-2014,02:15:03.16,0
021,17-Nov-2014,02:17:03.17,0
023,17-Nov-2014,02:17:05.43,0
005,17-Nov-2014,02:17:09.53,0
019,17-Nov-2014,02:18:03.54,0
016,17-Nov-2014,02:19:03.43,0
009,17-Nov-2014,02:22:03.32,0
014,17-Nov-2014,02:23:03.31,0
003,17-Nov-2014,02:25:03.12,0
011,24-Nov-2014,01:30:03.22,25
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001,24-Nov-2014,01:51:03.23,15
015,24-Nov-2014,01:59:03.12,12
004,24-Nov-2014,02:02:03.35,10
008,24-Nov-2014,02:08:03.54,8
007,24-Nov-2014,02:09:03.56,6
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006,24-Nov-2014,02:09:05.35,2
018,24-Nov-2014,02:09:07.35,1
017,24-Nov-2014,02:12:03.21,0
012,24-Nov-2014,02:12:04.22,0
022,24-Nov-2014,02:14:03.15,0
020,24-Nov-2014,02:15:03.16,0
021,24-Nov-2014,02:17:03.17,0
023,24-Nov-2014,02:17:05.43,0
005,24-Nov-2014,02:17:09.53,0
019,24-Nov-2014,02:18:03.54,0
016,24-Nov-2014,02:19:03.43,0
009,24-Nov-2014,02:22:03.32,0
014,24-Nov-2014,02:23:03.31,0
003,24-Nov-2014,02:25:03.12,0

RACE DATA:

17-Mar-2013,001,Albert Park

24-Mar-2013,001,Sepang International Circuit
14-Apr-2013,001,Shanghai International Circuit
21-Apr-2013,001,Bahrain International Circuit
12-May-2013,001,Circuit de Catalunya
26-May-2013,001,Circuit de Monaco
09-Jun-2013,001,Circuit Gilles Villeneuve
30-Jun-2013,001,Silverstone Circuit
07-Jul-2013,001,Nurburgring
28-Jul-2013,001,Hungaroring
25-Aug-2013,001,Circuit de Spa-francorchamps
08-Sep-2013,001,Autodromo Nazionale Monza
22-Sep-2013,001,Marina Bay Street Circuit
06-Oct-2013,001,Korea Internation Circuit
13-Oct-2013,001,Suzuka Circuit
27-Oct-2013,001,Buddh International Circuit
03-Nov-2013,001,Yas Marina Circuit
17-Nov-2013,001,Circuit of the Americas
24-Nov-2013,001,Autodromo Jose Carlos Pace
17-Mar-2014,002,Albert Park
24-Mar-2014,002,Sepang International Circuit
14-Apr-2014,002,Shanghai International Circuit
21-Apr-2014,002,Bahrain International Circuit
12-May-2014,002,Circuit de Catalunya
26-May-2014,002,Circuit de Monaco
09-Jun-2014,002,Circuit Gilles Villeneuve
30-Jun-2014,002,Silverstone Circuit
07-Jul-2014,002,Nurburgring
28-Jul-2014,002,Hungaroring
25-Aug-2014,002,Circuit de Spa-francorchamps
08-Sep-2014,002,Autodromo Nazionale Monza
22-Sep-2014,002,Marina Bay Street Circuit
06-Oct-2014,002,Korea Internation Circuit
13-Oct-2014,002,Suzuka Circuit
27-Oct-2014,002,Buddh International Circuit
03-Nov-2014,002,Yas Marina Circuit
17-Nov-2014,002,Circuit of the Americas
24-Nov-2014,002,Autodromo Jose Carlos Pace

CIRCUIT DATA:

Albert Park,Australia
Sepang International Circuit,Malaysia
Shanghai International Circuit,China
Bahrain International Circuit,Bahrain
Circuit de Catalunya,Spain

Circuit de Monaco,Monaco
Circuit Gilles Villeneuve,Canada
Silverstone Circuit,United Kingdom
Nurburgring,Germany
Hungaroring,Hungary
Circuit de Spa-francorchamps,Belgium
Autodromo Nazionale Monza,Italy
Marina Bay Street Circuit,Singapore
Korea Internation Circuit,Korea
Suzuka Circuit,Japan
Buddh International Circuit,India
Yas Marina Circuit,Abu Dhabi
Circuit of the Americas,United States
Autodromo Jose Carlos Pace,Brazil

COMPETITION DATA:

001,2013 Championship
002,2014 Championship

APPENDIX 2:
 Query test runs:

   3. Display the quickest race time for each circuit

leaderBoard.sql

```
SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> .read leaderBoard.sql
Mark Webber|310
Sebastian Vettel|310
Lewis Hamilton|285
Pastor Maldonado|251
Felipe Massa|234
Romain Grosjean|183
Kimi Raikkonen|133
Nico Hulkenberg|118
Sergio Perez|35
Daniel Ricciardo|30
Fernando Alonso|18
Nico Rosberg|6
Adrian Sutil|4
Jenson Button|2
Charles Pic|0
Esteban Gutierrez|0
Giedo van der Garde|0
Jean-Eric Vergne|0
Jules Bianchi|0
Max Chilton|0
Valtteri Bottas|0

sqlite>
```

teamLeaderBoard.sql

```
sqlite> .read teamleaderBoard.sql
Infiniti Red Bull Racing|620
```

Page 34

Lotus F1 Team|316
Mercedes AMG Petronas F1 Team|291
Scuderia Ferrari|252
Williams F1 Team|251
Sauber F1 Team|118
Vodafone McLaren Mercedes|37
Scuderia Toro Rosso|30
Sahara Force India F1 Team|4
Caterham F1 Team|0
Marussia F1 Team|0

sqlite>

averagePoints.sql

sqlite> .read averagePoints.sql
Adrian Sutil|0.210526315789474
Charles Pic|0.0
Daniel Ricciardo|1.57894736842105
Esteban Gutierrez|0.0
Felipe Massa|12.3157894736842
Fernando Alonso|0.947368421052632
Giedo van der Garde|0.0
Jean-Eric Vergne|0.0
Jenson Button|0.105263157894737
Jules Bianchi|0.0
Kimi Raikkonen|7.0
Lewis Hamilton|15.0
Mark Webber|16.3157894736842
Max Chilton|0.0
Nico Hulkenberg|6.21052631578947
Nico Rosberg|0.315789473684211
Pastor Maldonado|13.2105263157895
Romain Grosjean|9.63157894736842
Sebastian Vettel|16.3157894736842
Sergio Perez|1.84210526315789
Valtteri Bottas|0.0

sqlite>

quickestTime.sql

```
sqlite> .read quickestTime.sql
Albert Park|01:30:03.22
Autodromo Jose Carlos Pace|01:30:03.22
Autodromo Nazionale Monza|01:30:03.22
Bahrain International Circuit|01:30:03.22
Buddh International Circuit|01:30:03.22
Circuit Gilles Villeneuve|01:30:03.22
Circuit de Catalunya|01:30:03.22
Circuit de Monaco|01:30:03.22
Circuit de Spa-francorchamps|01:30:03.22
Circuit of the Americas|01:30:03.22
Hungaroring|01:30:03.22
Korea Internation Circuit|01:30:03.22
Marina Bay Street Circuit|01:30:03.22
Nurburgring|01:30:03.22
Sepang International Circuit|01:30:03.22
Shanghai International Circuit|01:30:03.22
Silverstone Circuit|01:30:03.22
Suzuka Circuit|01:30:03.22
Yas Marina Circuit|01:30:03.22

sqlite>
```

APPENDIX 3:
 Transaction test runs:

Delete Transactions:

1. Remove Driver
2. Remove Race Record
3. Remove Race
4. Remove Team
5. Remove Circuit
6. Remove Championship

Insert transaction:

1. Insert Driver
2. Insert Race Record

deleteDriver.sql

```
SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> select * from driver;
1|Sebastian Vettel|03-Jul-87|Infiniti Red Bull Racing
2|Mark Webber|27-Aug-76|Infiniti Red Bull Racing
3|Fernando Alonso|29-Jul-81|Scuderia Ferrari
4|Felipe Massa|25-Apr-81|Scuderia Ferrari
5|Jenson Button|19-Jan-80|Vodafone McLaren Mercedes
6|Sergio Perez|26-Jan-90|Vodafone McLaren Mercedes
7|Kimi Raikkonen|17-Oct-79|Lotus F1 Team
8|Romain Grosjean|17-Apr-86|Lotus F1 Team
9|Nico Rosberg|27-Jun-85|Mercedes AMG Petronas F1 Team
10|Lewis Hamilton|07-Jan-85|Mercedes AMG Petronas F1 Team
11|Nico Hulkenberg|19-Aug-87|Sauber F1 Team
12|Esteban Gutierrez|5-Aug-91|Sauber F1 Team
13|Paul di Resta|16-Apr-86|Sahara Force India F1 Team
14|Adrian Sutil|11-Jan-83|Sahara Force India F1 Team
15|Pastor Maldonado|10-Mar-85|Williams F1 Team
16|Valtteri Bottas|28-Aug-89|Williams F1 Team
17|Jean-Eric Vergne|25-Apr-90|Scuderia Toro Rosso
18|Daniel Ricciardo|01-Jul-89|Scuderia Toro Rosso
19|Charles Pic|15-Feb-90|Caterham F1 Team
20|Giedo van der Garde|25-Apr-85|Caterham F1 Team
21|Jules Bianchi|03-Aug-89|Marussia F1 Team
```

22|Max Chilton|21-Apr-91|Marussia F1 Team
sqlite> .read deleteDriver.sql

sqlite> select * from driver;
1|Sebastian Vettel|03-Jul-87|Infiniti Red Bull Racing
2|Mark Webber|27-Aug-76|Infiniti Red Bull Racing
3|Fernando Alonso|29-Jul-81|Scuderia Ferrari
4|Felipe Massa|25-Apr-81|Scuderia Ferrari
5|Jenson Button|19-Jan-80|Vodafone McLaren Mercedes
6|Sergio Perez|26-Jan-90|Vodafone McLaren Mercedes
7|Kimi Raikkonen|17-Oct-79|Lotus F1 Team
8|Romain Grosjean|17-Apr-86|Lotus F1 Team
9|Nico Rosberg|27-Jun-85|Mercedes AMG Petronas F1 Team
10|Lewis Hamilton|07-Jan-85|Mercedes AMG Petronas F1 Team
11|Nico Hulkenberg|19-Aug-87|Sauber F1 Team
12|Esteban Gutierrez|5-Aug-91|Sauber F1 Team
13|Paul di Resta|16-Apr-86|Sahara Force India F1 Team
14|Adrian Sutil|11-Jan-83|Sahara Force India F1 Team
15|Pastor Maldonado|10-Mar-85|Williams F1 Team
17|Jean-Eric Vergne|25-Apr-90|Scuderia Toro Rosso
18|Daniel Ricciardo|01-Jul-89|Scuderia Toro Rosso
19|Charles Pic|15-Feb-90|Caterham F1 Team
20|Giedo van der Garde|25-Apr-85|Caterham F1 Team
21|Jules Bianchi|03-Aug-89|Marussia F1 Team
22|Max Chilton|21-Apr-91|Marussia F1 Team
sqlite>

deleteRaceRecordsql

SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> select * from race_record where driver_id = 003;
3|03-Nov-2013|02:25:03.12|0
3|03-Nov-2014|02:25:03.12|0
3|06-Oct-2013|02:25:03.12|0
3|06-Oct-2014|02:25:03.12|0
3|07-Jul-2013|02:25:03.12|0
3|07-Jul-2014|02:25:03.12|0
3|08-Sep-2013|02:25:03.12|0
3|08-Sep-2014|02:25:03.12|0
3|09-Jun-2013|02:25:03.12|0
3|09-Jun-2014|02:25:03.12|0
3|12-May-2013|02:25:03.12|0
3|12-May-2014|02:25:03.12|0

```
3|13-Oct-2013|02:25:03.12|0
3|13-Oct-2014|02:25:03.12|0
3|14-Apr-2013|02:25:03.12|0
3|14-Apr-2014|02:25:03.12|0
3|17-Mar-2013|01:42:03.34|18
3|17-Mar-2014|01:42:03.34|18
3|17-Nov-2013|02:25:03.12|0
3|17-Nov-2014|02:25:03.12|0
3|21-Apr-2013|02:25:03.12|0
3|21-Apr-2014|02:25:03.12|0
3|22-Sep-2013|02:25:03.12|0
3|22-Sep-2014|02:25:03.12|0
3|24-Mar-2013|02:25:03.12|0
3|24-Mar-2014|02:25:03.12|0
3|24-Nov-2013|02:25:03.12|0
3|24-Nov-2014|02:25:03.12|0
3|25-Aug-2013|02:25:03.12|0
3|25-Aug-2014|02:25:03.12|0
3|26-May-2013|02:25:03.12|0
3|26-May-2014|02:25:03.12|0
3|27-Oct-2013|02:25:03.12|0
3|27-Oct-2014|02:25:03.12|0
3|28-Jul-2013|02:25:03.12|0
3|28-Jul-2014|02:25:03.12|0
3|30-Jun-2013|02:25:03.12|0
3|30-Jun-2014|02:25:03.12|0
sqlite> .read deleteRaceRecord.sql

sqlite> select * from race_record where driver_id = 003;
3|03-Nov-2013|02:25:03.12|0
3|03-Nov-2014|02:25:03.12|0
3|06-Oct-2013|02:25:03.12|0
3|06-Oct-2014|02:25:03.12|0
3|07-Jul-2013|02:25:03.12|0
3|07-Jul-2014|02:25:03.12|0
3|08-Sep-2013|02:25:03.12|0
3|08-Sep-2014|02:25:03.12|0
3|09-Jun-2013|02:25:03.12|0
3|09-Jun-2014|02:25:03.12|0
3|12-May-2013|02:25:03.12|0
3|12-May-2014|02:25:03.12|0
3|13-Oct-2013|02:25:03.12|0
3|13-Oct-2014|02:25:03.12|0
3|14-Apr-2013|02:25:03.12|0
3|14-Apr-2014|02:25:03.12|0
3|17-Mar-2013|01:42:03.34|18
3|17-Mar-2014|01:42:03.34|18
```

```
3|17-Nov-2013|02:25:03.12|0
3|17-Nov-2014|02:25:03.12|0
3|21-Apr-2013|02:25:03.12|0
3|21-Apr-2014|02:25:03.12|0
3|22-Sep-2013|02:25:03.12|0
3|22-Sep-2014|02:25:03.12|0
3|24-Mar-2013|02:25:03.12|0
3|24-Mar-2014|02:25:03.12|0
3|24-Nov-2014|02:25:03.12|0
3|25-Aug-2013|02:25:03.12|0
3|25-Aug-2014|02:25:03.12|0
3|26-May-2013|02:25:03.12|0
3|26-May-2014|02:25:03.12|0
3|27-Oct-2013|02:25:03.12|0
3|27-Oct-2014|02:25:03.12|0
3|28-Jul-2013|02:25:03.12|0
3|28-Jul-2014|02:25:03.12|0
3|30-Jun-2013|02:25:03.12|0
3|30-Jun-2014|02:25:03.12|0
sqlite>
```

deleteRace.sql

```
SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> select * from race;
17-Mar-2013|1|Albert Park
24-Mar-2013|1|Sepang International Circuit
14-Apr-2013|1|Shanghai International Circuit
21-Apr-2013|1|Bahrain International Circuit
12-May-2013|1|Circuit de Catalunya
26-May-2013|1|Circuit de Monaco
09-Jun-2013|1|Circuit Gilles Villeneuve
30-Jun-2013|1|Silverstone Circuit
07-Jul-2013|1|Nurburgring
28-Jul-2013|1|Hungaroring
25-Aug-2013|1|Circuit de Spa-francorchamps
08-Sep-2013|1|Autodromo Nazionale Monza
22-Sep-2013|1|Marina Bay Street Circuit
06-Oct-2013|1|Korea Internation Circuit
13-Oct-2013|1|Suzuka Circuit
27-Oct-2013|1|Buddh International Circuit
03-Nov-2013|1|Yas Marina Circuit
17-Nov-2013|1|Circuit of the Americas
24-Nov-2013|1|Autodromo Jose Carlos Pace
```

```
17-Mar-2014|2|Albert Park
24-Mar-2014|2|Sepang International Circuit
14-Apr-2014|2|Shanghai International Circuit
21-Apr-2014|2|Bahrain International Circuit
12-May-2014|2|Circuit de Catalunya
26-May-2014|2|Circuit de Monaco
09-Jun-2014|2|Circuit Gilles Villeneuve
30-Jun-2014|2|Silverstone Circuit
07-Jul-2014|2|Nurburgring
28-Jul-2014|2|Hungaroring
25-Aug-2014|2|Circuit de Spa-francorchamps
08-Sep-2014|2|Autodromo Nazionale Monza
22-Sep-2014|2|Marina Bay Street Circuit
06-Oct-2014|2|Korea Internation Circuit
13-Oct-2014|2|Suzuka Circuit
27-Oct-2014|2|Buddh International Circuit
03-Nov-2014|2|Yas Marina Circuit
17-Nov-2014|2|Circuit of the Americas
24-Nov-2014|2|Autodromo Jose Carlos Pace
sqlite> .read deleteRace.sql

sqlite> select * from race;
24-Mar-2013|1|Sepang International Circuit
14-Apr-2013|1|Shanghai International Circuit
21-Apr-2013|1|Bahrain International Circuit
12-May-2013|1|Circuit de Catalunya
26-May-2013|1|Circuit de Monaco
09-Jun-2013|1|Circuit Gilles Villeneuve
30-Jun-2013|1|Silverstone Circuit
07-Jul-2013|1|Nurburgring
28-Jul-2013|1|Hungaroring
25-Aug-2013|1|Circuit de Spa-francorchamps
08-Sep-2013|1|Autodromo Nazionale Monza
22-Sep-2013|1|Marina Bay Street Circuit
06-Oct-2013|1|Korea Internation Circuit
13-Oct-2013|1|Suzuka Circuit
27-Oct-2013|1|Buddh International Circuit
03-Nov-2013|1|Yas Marina Circuit
17-Nov-2013|1|Circuit of the Americas
24-Nov-2013|1|Autodromo Jose Carlos Pace
17-Mar-2014|2|Albert Park
24-Mar-2014|2|Sepang International Circuit
14-Apr-2014|2|Shanghai International Circuit
21-Apr-2014|2|Bahrain International Circuit
12-May-2014|2|Circuit de Catalunya
26-May-2014|2|Circuit de Monaco
09-Jun-2014|2|Circuit Gilles Villeneuve
```

Page 41

30-Jun-2014|2|Silverstone Circuit
07-Jul-2014|2|Nurburgring
28-Jul-2014|2|Hungaroring
25-Aug-2014|2|Circuit de Spa-francorchamps
08-Sep-2014|2|Autodromo Nazionale Monza
22-Sep-2014|2|Marina Bay Street Circuit
06-Oct-2014|2|Korea Internation Circuit
13-Oct-2014|2|Suzuka Circuit
27-Oct-2014|2|Buddh International Circuit
03-Nov-2014|2|Yas Marina Circuit
17-Nov-2014|2|Circuit of the Americas
24-Nov-2014|2|Autodromo Jose Carlos Pace
sqlite>

deleteTeam.sql

SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> select * from team;
Infiniti Red Bull Racing|Austria
Scuderia Ferrari|Italy
Vodafone McLaren Mercedes|United Kingdon
Lotus F1 Team|United Kingdom
Mercedes AMG Petronas F1 Team|Germany
Sauber F1 Team|Switzerland
Sahara Force India F1 Team|India
Williams F1 Team|United Kingdom
Scuderia Toro Rosso|Italy
Caterham F1 Team|Malaysia
Marussia F1 Team|Russia
sqlite> select * from driver;
1|Sebastian Vettel|03-Jul-87|Infiniti Red Bull Racing
2|Mark Webber|27-Aug-76|Infiniti Red Bull Racing
3|Fernando Alonso|29-Jul-81|Scuderia Ferrari
4|Felipe Massa|25-Apr-81|Scuderia Ferrari
5|Jenson Button|19-Jan-80|Vodafone McLaren Mercedes
6|Sergio Perez|26-Jan-90|Vodafone McLaren Mercedes
7|Kimi Raikkonen|17-Oct-79|Lotus F1 Team
8|Romain Grosjean|17-Apr-86|Lotus F1 Team
9|Nico Rosberg|27-Jun-85|Mercedes AMG Petronas F1 Team
10|Lewis Hamilton|07-Jan-85|Mercedes AMG Petronas F1 Team
11|Nico Hulkenberg|19-Aug-87|Sauber F1 Team
12|Esteban Gutierrez|5-Aug-91|Sauber F1 Team
13|Paul di Resta|16-Apr-86|Sahara Force India F1 Team

Page 42

```
14|Adrian Sutil|11-Jan-83|Sahara Force India F1 Team
15|Pastor Maldonado|10-Mar-85|Williams F1 Team
16|Valtteri Bottas|28-Aug-89|Williams F1 Team
17|Jean-Eric Vergne|25-Apr-90|Scuderia Toro Rosso
18|Daniel Ricciardo|01-Jul-89|Scuderia Toro Rosso
19|Charles Pic|15-Feb-90|Caterham F1 Team
20|Giedo van der Garde|25-Apr-85|Caterham F1 Team
21|Jules Bianchi|03-Aug-89|Marussia F1 Team
22|Max Chilton|21-Apr-91|Marussia F1 Team
sqlite> .read deleteTeam.sql

sqlite> select * from driver;
1|Sebastian Vettel|03-Jul-87|Vodafone McLaren Mercedes
2|Mark Webber|27-Aug-76|Vodafone McLaren Mercedes
3|Fernando Alonso|29-Jul-81|Scuderia Ferrari
4|Felipe Massa|25-Apr-81|Scuderia Ferrari
5|Jenson Button|19-Jan-80|Vodafone McLaren Mercedes
6|Sergio Perez|26-Jan-90|Vodafone McLaren Mercedes
7|Kimi Raikkonen|17-Oct-79|Lotus F1 Team
8|Romain Grosjean|17-Apr-86|Lotus F1 Team
9|Nico Rosberg|27-Jun-85|Mercedes AMG Petronas F1 Team
10|Lewis Hamilton|07-Jan-85|Mercedes AMG Petronas F1 Team
11|Nico Hulkenberg|19-Aug-87|Sauber F1 Team
12|Esteban Gutierrez|5-Aug-91|Sauber F1 Team
13|Paul di Resta|16-Apr-86|Sahara Force India F1 Team
14|Adrian Sutil|11-Jan-83|Sahara Force India F1 Team
15|Pastor Maldonado|10-Mar-85|Williams F1 Team
16|Valtteri Bottas|28-Aug-89|Williams F1 Team
17|Jean-Eric Vergne|25-Apr-90|Scuderia Toro Rosso
18|Daniel Ricciardo|01-Jul-89|Scuderia Toro Rosso
19|Charles Pic|15-Feb-90|Caterham F1 Team
20|Giedo van der Garde|25-Apr-85|Caterham F1 Team
21|Jules Bianchi|03-Aug-89|Marussia F1 Team
22|Max Chilton|21-Apr-91|Marussia F1 Team
sqlite> select * from team;
Scuderia Ferrari|Italy
Vodafone McLaren Mercedes|United Kingdon
Lotus F1 Team|United Kingdom
Mercedes AMG Petronas F1 Team|Germany
Sauber F1 Team|Switzerland
Sahara Force India F1 Team|India
Williams F1 Team|United Kingdom
Scuderia Toro Rosso|Italy
Caterham F1 Team|Malaysia
Marussia F1 Team|Russia
sqlite>
```

deleteCircuit.sql
Note, some selective projections have been made to save showing all 800 entries of the race record entity, the code works it can be tested if desired.

```
SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> select * from circuit;
Albert Park|Australia
Sepang International Circuit|Malaysia
Shanghai International Circuit|China
Bahrain International Circuit|Bahrain
Circuit de Catalunya|Spain
Circuit de Monaco|Monaco
Circuit Gilles Villeneuve|Canada
Silverstone Circuit|United Kingdom
Nurburgring|Germany
Hungaroring|Hungary
Circuit de Spa-francorchamps|Belgium
Autodromo Nazionale Monza|Italy
Marina Bay Street Circuit|Singapore
Korea Internation Circuit|Korea
Suzuka Circuit|Japan
Buddh International Circuit|India
Yas Marina Circuit|Abu Dhabi
Circuit of the Americas|United States
Autodromo Jose Carlos Pace|Brazil
sqlite> select * from race;
17-Mar-2013|1|Albert Park
24-Mar-2013|1|Sepang International Circuit
14-Apr-2013|1|Shanghai International Circuit
21-Apr-2013|1|Bahrain International Circuit
12-May-2013|1|Circuit de Catalunya
26-May-2013|1|Circuit de Monaco
09-Jun-2013|1|Circuit Gilles Villeneuve
30-Jun-2013|1|Silverstone Circuit
07-Jul-2013|1|Nurburgring
28-Jul-2013|1|Hungaroring
25-Aug-2013|1|Circuit de Spa-francorchamps
08-Sep-2013|1|Autodromo Nazionale Monza
22-Sep-2013|1|Marina Bay Street Circuit
06-Oct-2013|1|Korea Internation Circuit
13-Oct-2013|1|Suzuka Circuit
27-Oct-2013|1|Buddh International Circuit
03-Nov-2013|1|Yas Marina Circuit
17-Nov-2013|1|Circuit of the Americas
```

24-Nov-2013|1|Autodromo Jose Carlos Pace
17-Mar-2014|2|Albert Park
24-Mar-2014|2|Sepang International Circuit
14-Apr-2014|2|Shanghai International Circuit
21-Apr-2014|2|Bahrain International Circuit
12-May-2014|2|Circuit de Catalunya
26-May-2014|2|Circuit de Monaco
09-Jun-2014|2|Circuit Gilles Villeneuve
30-Jun-2014|2|Silverstone Circuit
07-Jul-2014|2|Nurburgring
28-Jul-2014|2|Hungaroring
25-Aug-2014|2|Circuit de Spa-francorchamps
08-Sep-2014|2|Autodromo Nazionale Monza
22-Sep-2014|2|Marina Bay Street Circuit
06-Oct-2014|2|Korea Internation Circuit
13-Oct-2014|2|Suzuka Circuit
27-Oct-2014|2|Buddh International Circuit
03-Nov-2014|2|Yas Marina Circuit
17-Nov-2014|2|Circuit of the Americas
24-Nov-2014|2|Autodromo Jose Carlos Pace
sqlite> select * from race_record where race_date ='21-Apr-2014' ;
10|21-Apr-2014|01:30:03.22|25
1|21-Apr-2014|01:42:03.34|18
2|21-Apr-2014|01:51:03.23|15
4|21-Apr-2014|01:59:03.12|12
15|21-Apr-2014|02:02:03.35|10
11|21-Apr-2014|02:08:03.54|8
7|21-Apr-2014|02:09:03.56|6
8|21-Apr-2014|02:09:04.19|4
6|21-Apr-2014|02:09:05.35|2
18|21-Apr-2014|02:09:07.35|1
17|21-Apr-2014|02:12:03.21|0
12|21-Apr-2014|02:12:04.22|0
22|21-Apr-2014|02:14:03.15|0
20|21-Apr-2014|02:15:03.16|0
21|21-Apr-2014|02:17:03.17|0
23|21-Apr-2014|02:17:05.43|0
5|21-Apr-2014|02:17:09.53|0
19|21-Apr-2014|02:18:03.54|0
16|21-Apr-2014|02:19:03.43|0
9|21-Apr-2014|02:22:03.32|0
14|21-Apr-2014|02:23:03.31|0
3|21-Apr-2014|02:25:03.12|0
sqlite> select * from race_record where race_date ='21-Apr-2013' ;
10|21-Apr-2013|01:30:03.22|25
1|21-Apr-2013|01:42:03.34|18
2|21-Apr-2013|01:51:03.23|15

Page 45

```
4|21-Apr-2013|01:59:03.12|12
15|21-Apr-2013|02:02:03.35|10
11|21-Apr-2013|02:08:03.54|8
7|21-Apr-2013|02:09:03.56|6
8|21-Apr-2013|02:09:04.19|4
6|21-Apr-2013|02:09:05.35|2
18|21-Apr-2013|02:09:07.35|1
17|21-Apr-2013|02:12:03.21|0
12|21-Apr-2013|02:12:04.22|0
22|21-Apr-2013|02:14:03.15|0
20|21-Apr-2013|02:15:03.16|0
21|21-Apr-2013|02:17:03.17|0
23|21-Apr-2013|02:17:05.43|0
5|21-Apr-2013|02:17:09.53|0
19|21-Apr-2013|02:18:03.54|0
16|21-Apr-2013|02:19:03.43|0
9|21-Apr-2013|02:22:03.32|0
14|21-Apr-2013|02:23:03.31|0
3|21-Apr-2013|02:25:03.12|0
sqlite> .read deleteCircuit
Error: cannot open "deleteCircuit"
sqlite> .read deleteCircuit.sql

sqlite> select * from circuit;
Albert Park|Australia
Sepang International Circuit|Malaysia
Shanghai International Circuit|China
Circuit de Catalunya|Spain
Circuit de Monaco|Monaco
Circuit Gilles Villeneuve|Canada
Silverstone Circuit|United Kingdom
Nurburgring|Germany
Hungaroring|Hungary
Circuit de Spa-francorchamps|Belgium
Autodromo Nazionale Monza|Italy
Marina Bay Street Circuit|Singapore
Korea Internation Circuit|Korea
Suzuka Circuit|Japan
Buddh International Circuit|India
Yas Marina Circuit|Abu Dhabi
Circuit of the Americas|United States
Autodromo Jose Carlos Pace|Brazil
sqlite> select * from race;
17-Mar-2013|1|Albert Park
24-Mar-2013|1|Sepang International Circuit
14-Apr-2013|1|Shanghai International Circuit
12-May-2013|1|Circuit de Catalunya
```

Page 46

26-May-2013|1|Circuit de Monaco
09-Jun-2013|1|Circuit Gilles Villeneuve
30-Jun-2013|1|Silverstone Circuit
07-Jul-2013|1|Nurburgring
28-Jul-2013|1|Hungaroring
25-Aug-2013|1|Circuit de Spa-francorchamps
08-Sep-2013|1|Autodromo Nazionale Monza
22-Sep-2013|1|Marina Bay Street Circuit
06-Oct-2013|1|Korea Internation Circuit
13-Oct-2013|1|Suzuka Circuit
27-Oct-2013|1|Buddh International Circuit
03-Nov-2013|1|Yas Marina Circuit
17-Nov-2013|1|Circuit of the Americas
24-Nov-2013|1|Autodromo Jose Carlos Pace
17-Mar-2014|2|Albert Park
24-Mar-2014|2|Sepang International Circuit
14-Apr-2014|2|Shanghai International Circuit
12-May-2014|2|Circuit de Catalunya
26-May-2014|2|Circuit de Monaco
09-Jun-2014|2|Circuit Gilles Villeneuve
30-Jun-2014|2|Silverstone Circuit
07-Jul-2014|2|Nurburgring
28-Jul-2014|2|Hungaroring
25-Aug-2014|2|Circuit de Spa-francorchamps
08-Sep-2014|2|Autodromo Nazionale Monza
22-Sep-2014|2|Marina Bay Street Circuit
06-Oct-2014|2|Korea Internation Circuit
13-Oct-2014|2|Suzuka Circuit
27-Oct-2014|2|Buddh International Circuit
03-Nov-2014|2|Yas Marina Circuit
17-Nov-2014|2|Circuit of the Americas
24-Nov-2014|2|Autodromo Jose Carlos Pace
sqlite> select * from race_record where race_date ='21-Apr-2014' ;
sqlite> select * from race_record where race_date ='21-Apr-2013' ;
sqlite>

deleteCompetition.sql

16|22-Sep-2013|02:19:03.43|0
9|22-Sep-2013|02:22:03.32|0
14|22-Sep-2013|02:23:03.31|0
3|22-Sep-2013|02:25:03.12|0
10|06-Oct-2013|01:30:03.22|25
1|06-Oct-2013|01:42:03.34|18
2|06-Oct-2013|01:51:03.23|15
15|06-Oct-2013|01:59:03.12|12
4|06-Oct-2013|02:02:03.35|10

Page 47

8|06-Oct-2013|02:08:03.54|8
7|06-Oct-2013|02:09:03.56|6
11|06-Oct-2013|02:09:04.19|4
6|06-Oct-2013|02:09:05.35|2
18|06-Oct-2013|02:09:07.35|1
17|06-Oct-2013|02:12:03.21|0
12|06-Oct-2013|02:12:04.22|0
22|06-Oct-2013|02:14:03.15|0
20|06-Oct-2013|02:15:03.16|0
21|06-Oct-2013|02:17:03.17|0
23|06-Oct-2013|02:17:05.43|0
5|06-Oct-2013|02:17:09.53|0
19|06-Oct-2013|02:18:03.54|0
16|06-Oct-2013|02:19:03.43|0
9|06-Oct-2013|02:22:03.32|0
14|06-Oct-2013|02:23:03.31|0
3|06-Oct-2013|02:25:03.12|0
2|13-Oct-2013|01:30:03.22|25
10|13-Oct-2013|01:42:03.34|18
1|13-Oct-2013|01:51:03.23|15
4|13-Oct-2013|01:59:03.12|12
15|13-Oct-2013|02:02:03.35|10
8|13-Oct-2013|02:08:03.54|8
7|13-Oct-2013|02:09:03.56|6
11|13-Oct-2013|02:09:04.19|4
6|13-Oct-2013|02:09:05.35|2
18|13-Oct-2013|02:09:07.35|1
17|13-Oct-2013|02:12:03.21|0
12|13-Oct-2013|02:12:04.22|0
22|13-Oct-2013|02:14:03.15|0
20|13-Oct-2013|02:15:03.16|0
21|13-Oct-2013|02:17:03.17|0
23|13-Oct-2013|02:17:05.43|0
5|13-Oct-2013|02:17:09.53|0
19|13-Oct-2013|02:18:03.54|0
16|13-Oct-2013|02:19:03.43|0
9|13-Oct-2013|02:22:03.32|0
14|13-Oct-2013|02:23:03.31|0
3|13-Oct-2013|02:25:03.12|0
1|27-Oct-2013|01:30:03.22|25
10|27-Oct-2013|01:42:03.34|18
2|27-Oct-2013|01:51:03.23|15
8|27-Oct-2013|01:59:03.12|12
4|27-Oct-2013|02:02:03.35|10
15|27-Oct-2013|02:08:03.54|8
7|27-Oct-2013|02:09:03.56|6
11|27-Oct-2013|02:09:04.19|4

6|27-Oct-2013|02:09:05.35|2
18|27-Oct-2013|02:09:07.35|1
17|27-Oct-2013|02:12:03.21|0
12|27-Oct-2013|02:12:04.22|0
22|27-Oct-2013|02:14:03.15|0
20|27-Oct-2013|02:15:03.16|0
21|27-Oct-2013|02:17:03.17|0
23|27-Oct-2013|02:17:05.43|0
5|27-Oct-2013|02:17:09.53|0
19|27-Oct-2013|02:18:03.54|0
16|27-Oct-2013|02:19:03.43|0
9|27-Oct-2013|02:22:03.32|0
14|27-Oct-2013|02:23:03.31|0
3|27-Oct-2013|02:25:03.12|0
10|03-Nov-2013|01:30:03.22|25
1|03-Nov-2013|01:42:03.34|18
2|03-Nov-2013|01:51:03.23|15
18|03-Nov-2013|01:59:03.12|12
4|03-Nov-2013|02:02:03.35|10
8|03-Nov-2013|02:08:03.54|8
7|03-Nov-2013|02:09:03.56|6
11|03-Nov-2013|02:09:04.19|4
6|03-Nov-2013|02:09:05.35|2
15|03-Nov-2013|02:09:07.35|1
17|03-Nov-2013|02:12:03.21|0
12|03-Nov-2013|02:12:04.22|0
22|03-Nov-2013|02:14:03.15|0
20|03-Nov-2013|02:15:03.16|0
21|03-Nov-2013|02:17:03.17|0
23|03-Nov-2013|02:17:05.43|0
5|03-Nov-2013|02:17:09.53|0
19|03-Nov-2013|02:18:03.54|0
16|03-Nov-2013|02:19:03.43|0
9|03-Nov-2013|02:22:03.32|0
14|03-Nov-2013|02:23:03.31|0
3|03-Nov-2013|02:25:03.12|0
1|17-Nov-2013|01:30:03.22|25
2|17-Nov-2013|01:42:03.34|18
10|17-Nov-2013|01:51:03.23|15
15|17-Nov-2013|01:59:03.12|12
4|17-Nov-2013|02:02:03.35|10
8|17-Nov-2013|02:08:03.54|8
7|17-Nov-2013|02:09:03.56|6
11|17-Nov-2013|02:09:04.19|4
6|17-Nov-2013|02:09:05.35|2
18|17-Nov-2013|02:09:07.35|1
17|17-Nov-2013|02:12:03.21|0

Page 49

12|17-Nov-2013|02:12:04.22|0
22|17-Nov-2013|02:14:03.15|0
20|17-Nov-2013|02:15:03.16|0
21|17-Nov-2013|02:17:03.17|0
23|17-Nov-2013|02:17:05.43|0
5|17-Nov-2013|02:17:09.53|0
19|17-Nov-2013|02:18:03.54|0
16|17-Nov-2013|02:19:03.43|0
9|17-Nov-2013|02:22:03.32|0
14|17-Nov-2013|02:23:03.31|0
3|17-Nov-2013|02:25:03.12|0
11|24-Nov-2013|01:30:03.22|25
2|24-Nov-2013|01:42:03.34|18
1|24-Nov-2013|01:51:03.23|15
15|24-Nov-2013|01:59:03.12|12
4|24-Nov-2013|02:02:03.35|10
8|24-Nov-2013|02:08:03.54|8
7|24-Nov-2013|02:09:03.56|6
10|24-Nov-2013|02:09:04.19|4
6|24-Nov-2013|02:09:05.35|2
18|24-Nov-2013|02:09:07.35|1
17|24-Nov-2013|02:12:03.21|0
12|24-Nov-2013|02:12:04.22|0
22|24-Nov-2013|02:14:03.15|0
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sqlite> .read deleteCompetition.sql
Error: cannot open "deleteCompetition.sql"
sqlite> .read deleteChampionship.sql

sqlite> select * from competition;
1|2013 Championship
sqlite> select * from race;
17-Mar-2013|1|Albert Park
24-Mar-2013|1|Sepang International Circuit
14-Apr-2013|1|Shanghai International Circuit
21-Apr-2013|1|Bahrain International Circuit
12-May-2013|1|Circuit de Catalunya
26-May-2013|1|Circuit de Monaco
09-Jun-2013|1|Circuit Gilles Villeneuve
30-Jun-2013|1|Silverstone Circuit
07-Jul-2013|1|Nurburgring
28-Jul-2013|1|Hungaroring
25-Aug-2013|1|Circuit de Spa-francorchamps
08-Sep-2013|1|Autodromo Nazionale Monza
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22-Sep-2013|1|Marina Bay Street Circuit
06-Oct-2013|1|Korea Internation Circuit
13-Oct-2013|1|Suzuka Circuit
27-Oct-2013|1|Buddh International Circuit
03-Nov-2013|1|Yas Marina Circuit
17-Nov-2013|1|Circuit of the Americas
24-Nov-2013|1|Autodromo Jose Carlos Pace
sqlite> select * from race_record;
7|17-Mar-2013|01:30:03.22|25
3|17-Mar-2013|01:42:03.34|18
1|17-Mar-2013|01:51:03.23|15
4|17-Mar-2013|01:59:03.12|12
10|17-Mar-2013|02:02:03.35|10
2|17-Mar-2013|02:08:03.54|8
9|17-Mar-2013|02:09:03.56|6
14|17-Mar-2013|02:09:04.19|4
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20|24-Nov-2013|02:15:03.16|0
21|24-Nov-2013|02:17:03.17|0
23|24-Nov-2013|02:17:05.43|0
5|24-Nov-2013|02:17:09.53|0
19|24-Nov-2013|02:18:03.54|0
16|24-Nov-2013|02:19:03.43|0

```
9|24-Nov-2013|02:22:03.32|0
14|24-Nov-2013|02:23:03.31|0
3|24-Nov-2013|02:25:03.12|0
sqlite>
```

insertDriver.sql

```
SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> select * from driver;
1|Sebastian Vettel|03-Jul-87|Infiniti Red Bull Racing
2|Mark Webber|27-Aug-76|Infiniti Red Bull Racing
3|Fernando Alonso|29-Jul-81|Scuderia Ferrari
4|Felipe Massa|25-Apr-81|Scuderia Ferrari
5|Jenson Button|19-Jan-80|Vodafone McLaren Mercedes
6|Sergio Perez|26-Jan-90|Vodafone McLaren Mercedes
7|Kimi Raikkonen|17-Oct-79|Lotus F1 Team
8|Romain Grosjean|17-Apr-86|Lotus F1 Team
9|Nico Rosberg|27-Jun-85|Mercedes AMG Petronas F1 Team
10|Lewis Hamilton|07-Jan-85|Mercedes AMG Petronas F1 Team
11|Nico Hulkenberg|19-Aug-87|Sauber F1 Team
12|Esteban Gutierrez|5-Aug-91|Sauber F1 Team
13|Paul di Resta|16-Apr-86|Sahara Force India F1 Team
14|Adrian Sutil|11-Jan-83|Sahara Force India F1 Team
15|Pastor Maldonado|10-Mar-85|Williams F1 Team
16|Valtteri Bottas|28-Aug-89|Williams F1 Team
17|Jean-Eric Vergne|25-Apr-90|Scuderia Toro Rosso
18|Daniel Ricciardo|01-Jul-89|Scuderia Toro Rosso
19|Charles Pic|15-Feb-90|Caterham F1 Team
20|Giedo van der Garde|25-Apr-85|Caterham F1 Team
21|Jules Bianchi|03-Aug-89|Marussia F1 Team
22|Max Chilton|21-Apr-91|Marussia F1 Team
sqlite> .read insertDriver.sql;
Error: cannot open "insertDriver.sql;"
sqlite> .read insertDriver.sql

sqlite> select * from driver;
1|Sebastian Vettel|03-Jul-87|Infiniti Red Bull Racing
2|Mark Webber|27-Aug-76|Infiniti Red Bull Racing
3|Fernando Alonso|29-Jul-81|Scuderia Ferrari
4|Felipe Massa|25-Apr-81|Scuderia Ferrari
5|Jenson Button|19-Jan-80|Vodafone McLaren Mercedes
6|Sergio Perez|26-Jan-90|Vodafone McLaren Mercedes
7|Kimi Raikkonen|17-Oct-79|Lotus F1 Team
8|Romain Grosjean|17-Apr-86|Lotus F1 Team
```

9|Nico Rosberg|27-Jun-85|Mercedes AMG Petronas F1 Team
10|Lewis Hamilton|07-Jan-85|Mercedes AMG Petronas F1 Team
11|Nico Hulkenberg|19-Aug-87|Sauber F1 Team
12|Esteban Gutierrez|5-Aug-91|Sauber F1 Team
13|Paul di Resta|16-Apr-86|Sahara Force India F1 Team
14|Adrian Sutil|11-Jan-83|Sahara Force India F1 Team
15|Pastor Maldonado|10-Mar-85|Williams F1 Team
16|Valtteri Bottas|28-Aug-89|Williams F1 Team
17|Jean-Eric Vergne|25-Apr-90|Scuderia Toro Rosso
18|Daniel Ricciardo|01-Jul-89|Scuderia Toro Rosso
19|Charles Pic|15-Feb-90|Caterham F1 Team
20|Giedo van der Garde|25-Apr-85|Caterham F1 Team
21|Jules Bianchi|03-Aug-89|Marussia F1 Team
22|Max Chilton|21-Apr-91|Marussia F1 Team
100|Lee Hudson|13-08-1984|Scuderia Ferrari
sqlite>

insertRaceRecord.sql

SQLite version 3.7.15.2 2013-01-09 11:53:05
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .restore f1
sqlite> select * from race_record where driver_id = 100;
sqlite> .read insertRaceRecord.sql

sqlite> select * from race_record where driver_id = 100;
100|17-Mar-2013|02:27:03.12|0
sqlite>