

# Trabalho 2

# Relatório

SCC-541 Laboratório de Bases de Dados

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- 1) Nesse exercicio, entendemos que precisamos da pontuação total de cada piloto em uma temporada. Como driverstandings da a pontuação total do piloto após cada corrida, basta pegar o maior valor de points de cada piloto em cada ano.

```
select r.year, d.forename, d.surname, max(ds.points) as
total_points
  from driverstandings ds join driver d on ds.driverid =
d.driverid
  join races r on r.raceid = ds.raceid
 group by r.year, d.forename, d.surname
 order by total_points desc;
```

123 year	ABC forename	ABC surname	123 total_points
2,022	Max	Verstappen	454
2,019	Lewis	Hamilton	413
2,018	Lewis	Hamilton	408
2,013	Sebastian	Vettel	397
2,021	Max	Verstappen	395.5
2,011	Sebastian	Vettel	392
2,021	Lewis	Hamilton	387.5
2,016	Nico	Rosberg	385
2,014	Lewis	Hamilton	384
2,015	Lewis	Hamilton	381

2)

```
SELECT year, COUNT(*) AS Races FROM Races GROUP BY year ORDER BY
Races DESC
```

123 year	123 races
2,023	23
2,022	22
2,021	22
2,019	21
2,018	21
2,016	21
2,012	20
2,017	20
2,014	19
2,015	19

3)

```
select continent, type, count(*) as num_airports
from airports
  group by continent, type
  order by continent, type;
```





























continent	type	num_airports
AF	closed	139
AF	heliport	140
AF	large_airport	44
AF	medium_airport	453
AF	seaplane_base	1
AF	small_airport	3,001
AN	closed	2
AN	heliport	9
AN	medium_airport	8
AN	small_airport	25

4)

```
alter table qualifying add column pole_position varchar(10);
```

```
update qualifying  
  set pole_position = 'podium'  
where position <= 3;
```

```
select q.raceid , q.driverid, q.pole_position, q.position  
  from qualifying q  
  order by q.driverid, q.raceid;
```

123 raceid 	123 driverid 	ABC pole_position 	123 position 
7 	1 	[NULL]	16
8 	1 	[NULL]	19
9 	1 	[NULL]	5
10 	1 	[NULL]	4
11 	1 	podium	1
12 	1 	[NULL]	12
13 	1 	podium	1
14 	1 	podium	1
15 	1 	podium	3
16 	1 	[NULL]	18
17 	1 	podium	1
18 	1 	podium	1

5)

```
update driver
  set nationality = 'BR'
  where nationality = 'Brazilian';

select d.driverid, d.forename, d.surname, d.nationality
  from driver d
  where d.nationality = upper('br')
  order by d.forename;
```

123 driverid	ABC forename	ABC surname	ABC nationality
237	Alex	Ribeiro	BR
42	Antônio	Pizzonia	BR
102	Ayrton	Senna	BR
811	Bruno	Senna	BR
250	Carlos	Pace	BR
622	Chico	Landi	BR
192	Chico	Serra	BR
104	Christian	Fittipaldi	BR
43	Cristiano	da Matta	BR
224	Emerson	Fittipaldi	BR

6)

```
select d.forename, d.surname, count(*) as pole_position
  from driver d join qualifying q on d.driverid = q.driverid
  where q.position = 1
  group by d.driverid
  order by pole_position desc
  limit 1;
```

ABC forename	ABC surname	123 pole_position
Lewis	Hamilton	106

7)

```
select cities.name, cities.num_cities, air.num_airports
from
    (select ct.name, count(distinct(gc.geonameid)) as num_cities
    from geocities15k gc join countries ct on gc.country =
ct.code
    join circuits c on c.country = ct.name
    group by ct.name) as cities join
    (select ct.name, count(distinct(a.ident)) as num_airports
    from airports a join countries ct on a.isocountry = ct.code
    join circuits c on c.country = ct.name
    group by ct.name) as air
on air.name = cities.name;
```

ABC name	123 num_cities	123 num_airports
Argentina	227	937
Australia	276	2,318
Austria	49	148
Azerbaijan	56	39
Bahrain	8	11
Belgium	224	177
Brazil	1,215	6,183
Canada	330	2,884
China	1,597	594
France	640	964

8)

```
create table countriesv2 as table countries;

delete from countriesv2 c2
  where c2.code not in(
    select c.code
      from countries c join airports a on c.code =
a.isocountry
    group by c.code
    having count(a.ident) <= 10
  );

select c.code, count(a.ident) as num_airports
  from countriesv2 c join airports a on c.code = a.isocountry
 group by c.code;
```

ABC code	123 num_airports
CX	1
TF	7
CK	10
GU	4
TV	3
DM	2
GQ	7
BM	4
LI	2
NF	1