

Sistemas de Banco de Dados

Arthur do Prado Labaki – 11821BCC017

Prova 2

1 - a)

```
SELECT nomepes, titulospil  
FROM pessoa, piloto  
WHERE pessoa.idpes = piloto.idpes
```

1 - b)

```
SELECT * FROM circuito  
WHERE idcir IN (SELECT idcir  
FROM corrida, participacao  
WHERE corrida.idcor = participacao.idcor  
AND voltaspar < voltascor)
```

1 - c)

```
SELECT nomecir, datacor, categoriacor  
FROM circuito LEFT OUTER JOIN corrida  
ON circuito.idcir = corrida.idcir  
ORDER BY nomecir
```

1 - d)

```
SELECT nomeequ, COUNT(*) AS "QtdeMecanicos"  
FROM equipe, pessoa  
WHERE pessoa.idequ = equipe.idequ  
AND idpes IN (SELECT idpes FROM mecanico)  
GROUP BY nomeequ HAVING COUNT (*) > 1
```

1 - e)

```
SELECT nomepes  
FROM pessoa, piloto, participacao  
WHERE pessoa.idpes = piloto.idpes  
AND participacao.idpes = pessoa.idpes  
AND NOT EXISTS (SELECT DISTINCT *  
FROM circuito WHERE nomecir = " Interlagos"  
AND NOT EXISTS  
(SELECT * FROM corrida WHERE corrida.idcir = circuito.idcir  
AND corrida.idcor = participacao.idcor))
```

2 –

```
CREATE VIEW vencedores  
AS SELECT corrida.idcor, datacor, categoriacor, nomepes AS  
"nomeeven", 'piloto' AS "tipoven"  
FROM corrida cor, participacao par, pessoa pes  
WHERE par.idpes = pes.idpes
```

```

AND cor.idcor IN (SELECT idcor FROM participacao
WHERE voltascor = voltaspar AND min(tempopar))

UNION

SELECT corrida.idcor, datacor, categoriacor, nomeequ AS
"nomeeven", 'piloto' AS "tipoven"
FROM corrida cor, participacao par, pessoa pes, equipe
WHERE par.idpes = pes.idpes
AND equipe.idequ = pessoa.idequ
AND cor.idcor IN (SELECT idcor FROM participacao
WHERE voltascor = voltaspar AND min(tempopar));

SELECT * FROM vencedores ORDER BY tipoven, idcor

```

3 -

```

WITH RECURSIVE rMeq (nivel, idsup, idpes,
especialidadesmec) AS (

SELECT 0, root.idsup, root.idpes
FROM mecanico root, mecanico
WHERE root.idsup = mecanico.idpes

UNION ALL

SELECT level+1, child.idsup, child.idpes
FROM rMeq parent, mecanico child
WHERE parent.idpes = child.idsup

)

```

```
SELECT DISTINCT nivel, rMeq.idsup, rMeq.idpes, nomepes,  
                especialidademec  
FROM rMeq, pessoa, equipe  
WHERE pessoa.idpes = rMeq.idpes  
AND pessoa.idequ = equipe.idequ  
AND nomeequ='Canarinho'  
ORDER BY nivel, idsup e idpes
```