

Prova 2

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1.

- a) SELECT nomepes, especialidademec
FROM mecanico mec, pessoa pes
WHERE mec.idpes=pes.idpes;
- b) SELECT idcir, nomecir, localcir
FROM (circuito NATURAL JOIN corrida)
WHERE datacor BETWEEN '2018-01-01' AND '2018-12-31';
- c) SELECT nomecir, datacor, categoriacor
FROM circuito c LEFT OUTER JOIN corrida cor ON c.idcir=cor.idcir
ORDER BY 1;
- d) SELECT nomeequ, COUNT(*) AS QtdeMecanicos
FROM (pessoa NATURAL JOIN mecanico) AS pemec
JOIN equipe AS e ON pemec.idequ=e.idequ
GROUP BY nomeequ
HAVING COUNT(*) > 1;
- e) SELECT nomepes FROM (piloto NATURAL JOIN pessoa) AS pipe
WHERE NOT EXISTS
(SELECT * FROM (circuito NATURAL JOIN corrida) AS cico
WHERE nomecir='Interlagos'
AND NOT EXISTS
(SELECT * FROM participacao AS p
WHERE pipe.idpes=p.idpes
AND cico.idcor=p.idcor));

2. CREATE VIEW vencedores AS

```
(SELECT DISTINCT c1.idcor, datacor, categoriacor, nomepes AS nomeven, 'Piloto'
AS tipoven
FROM corrida c1, participacao pt1, piloto p1, pessoa pes1
WHERE c1.idcor=pt1.idcor
AND pt1.idpes=p1.idpes
AND p1.idpes=pes1.idpes
AND pt1.tempopar <= ALL (SELECT tempopar
FROM participacao pt2
WHERE pt1.idcor=pt2.idcor
AND pt1.idpes<>pt2.idpes
AND pt1.voltaspar=pt2.voltaspar)
)
```

UNION

```

(SELECT DISTINCT c1.idcor, datacor, categoriacor, nomeequ AS nomeeven, 'Equipe'
AS tipoven
FROM corrida c1, participacao pt1, equipe e1, pessoa pes1
WHERE c1.idcor=pt1.idcor
AND pt1.idpes=pes1.idpes
AND e1.idequ=pes1.idequ
AND pt1.tempopar <= ALL (SELECT tempopar
                        FROM participacao pt2
                        WHERE pt1.idcor=pt2.idcor
                        AND pt1.idpes <> pt2.idpes
                        AND pt1.voltaspar=pt2.voltaspar)
)

SELECT * FROM vencedores ORDER BY 5, 1;

```

3. WITH RECURSIVE mecsup(nivel, idsup, idpes, nomeequ, nomepes, especialidademec) AS


```

      (SELECT 0, root.idsup, root.idpes, root.nomeequ, root.nomepes,
      root.especialidademec
      FROM (mecanico NATURAL JOIN pessoa NATURAL JOIN equipe) AS root
      WHERE root.idpes = root.idsup
      UNION ALL
      SELECT nivel+1, child.idsup, child.idpes, child.nomeequ, child.nomepes,
      child.especialidademec
      FROM mecsup parent, (mecanico NATURAL JOIN pessoa NATURAL JOIN equipe)
      AS child
      WHERE child.idsup = parent.idpes
      AND child.nomeequ=parent.nomeequ
      AND child.idpes <> parent.idpes
      )

      SELECT DISTINCT nivel, idsup, idpes, nomepes, especialidademec
      FROM mecsup
      WHERE nomeequ = 'Aprilia Racing Team gresini'
      ORDER BY 1, 2, 3;

```