

P-LMD SQL

1- Faculdade

- ① SELECT *nr* FROM ALUNO;
- ② SELECT *cod*, *Design* FROM CADEIRA WHERE *curso* = 'AC';
- ③ SELECT *nome* FROM Aluno INTERSECT SELECT *nome* FROM Prof;
- ④ SELECT *nome* FROM Aluno EXCEPT SELECT *nome* FROM Prof;
- ⑤ SELECT *nome* FROM Aluno UNION SELECT *nome* FROM Prof;
ou SELECT *nome* FROM Aluno WHERE *Aluno.nr* IN (SELECT *nr* FROM Prof WHERE *Prof.cod* = 'TS1');
- ⑥ SELECT DISTINCT *nome* FROM Aluno, Prova WHERE
Aluno.nr = *Prova.nr* AND *Prova.cod* = 'TS1';
ou SELECT *Aluno.nome* FROM Aluno WHERE *Aluno.nr* IN (SELECT *nr* FROM Prova NATURAL JOIN Prova WHERE *curso* = 'TS1');
- ⑦ SELECT DISTINCT *nome* FROM Aluno, Cadeira, Prova
WHERE *Aluno.nr* = *Prova.nr* AND *Prova.cod* = *Cadeira.cod* AND *Cadeira.curso* = 'IS';
- ⑧ SELECT DISTINCT *nome* FROM Aluno WHERE *nr* NOT IN
(SELECT *nr* AS *alunos* FROM Aluno, Cadeira WHERE *curso* = 'IS' AND
NOT(*cod* IN (SELECT *cod* FROM Prova WHERE *nota* ≥ 10 AND *nr* = *alunos*)));
- ⑨ SELECT *max(nota)* FROM Prova;
- ⑩ SELECT *avg(nota)* FROM Prova WHERE *cod* = 'BD';
- ⑪ SELECT *count(*)* FROM Aluno;
- ⑫ SELECT *curso*, *count(*)* FROM Cadeira GROUP BY *curso*;
- ⑬ SELECT *nr*, *count(*)* FROM Prova GROUP BY *nr*;
- ⑭ SELECT *avg(sum)* FROM (SELECT *count(*)* as *sum* FROM Prova GROUP BY *nr*);
- ⑮ SELECT *nome*, *avg(maxNota)* FROM (SELECT *nome*, *cod*,
max(nota) as *maxNota* FROM Prova, Aluno WHERE *Prova.nr* = *Aluno.nr*
AND *nota* ≥ 10 GROUP BY *nome*, *cod*) GROUP BY *nome*;
- ⑯ SELECT *A.cod*, *nome*, *maxNota* FROM (SELECT *cod*, *max(nota)*
maxNota FROM Prova GROUP BY *cod*) A, Prova, Aluno WHERE
A.cod = *Prova.cod* AND *nota* = *maxNota* AND *Prova.nr* = *Aluno.nr*;
- ⑰ SELECT DISTINCT *nome*, *curso* FROM Aluno, Prova, Cadeira C
WHERE *Aluno.nr* = *Prova.nr* AND *Prova.cod* = C.*cod* AND *Aluno.nr* NOT IN
(SELECT *nr* AS *alunos* FROM Aluno, Cadeira WHERE *Cadeira.curso* =
= C.*curso* AND NOT(*cod* IN (SELECT *cod* FROM Prova WHERE *nota* ≥ 10 AND *nr* = *alunos*)))
ORDER BY *curso*, *nome*;

2-Oficina

a) SELECT * FROM Sees WHERE custollunitario < 10 AND codigo LIKE '%98%';

b) SELECT matricula FROM Carro, Reparacao WHERE Carro.idCarro = Reparacao.idCarro AND strftime('%m', datafim) = '09' AND strftime('%Y', datafim) = '2010';

c) SELECT nome FROM Cliente, Carro, Reparacao, Reparacao-Sees, Sees WHERE Cliente.idCliente = Carro.idCliente AND Carro.idCarro = Reparacao.idCarro AND Reparacao.idReparacao = Reparacao-Sees.idReparacao AND Reparacao-Sees.idSees = Sees.idSees AND custollunitario > 10 ORDER BY custollunitario DESC;

d) SELECT nome FROM Cliente WHERE idCliente NOT IN (SELECT idCliente FROM Carro);

e) SELECT matricula, COUNT(*) "Num Reparacoes" FROM Carro, Reparacao WHERE Carro.idCarro = Reparacao.idCarro GROUP BY matricula;

f) SELECT matricula, SUM(strftime('%d', datafim) - strftime('%d', datainicio)) "No de dias" FROM Carro, Reparacao WHERE Carro.idCarro = Reparacao.idCarro GROUP BY matricula;

g) SELECT AVG(custollunitario) "Media", SUM(custollunitario * quantidade) "Val total", COUNT(*) "No de Sees", MIN(custollunitario) "preço menor", MAX(custollunitario) "preço maior" FROM Sees;

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