

Instituto Superior Técnico

Projeto de Base de Dados,

Parte 3

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Turno: Quinta-feira 12:30h – 14:00h

Esforço: 144h

Prof. Gabriel Pestana

SQL

a)

SELECT DISTINCT e.morada, e.codigo

FROM espaco e NATURAL JOIN posto

WHERE e.morada NOT IN (SELECT a.morada FROM aluga a);

b)

SELECT a.morada, COUNT (a.morada) AS amount\_of\_reservations

FROM aluga a NATURAL JOIN edifício

GROUP BY morada

HAVING Amount\_of\_reservations >= (SELECT COUNT(x.numero)/2 FROM reserva x);

c)

SELECT DISTINCT u.nome

FROM user u NATURAL JOIN arrenda NATURAL JOIN fiscaliza

WHERE EXISTS

(SELECT COUNT(f1.id) FROM arrenda NATURAL JOIN fiscaliza f1

GROUP BY f1.id

HAVING f1.id IN

(SELECT COUNT(f2.id) FROM fiscaliza f2 GROUP BY f2.id));

d)

SELECT DISTINCT e.morada o.codigo, SUM(o.tarifa)\*DATEDIFF(o.data\_fim, o.data\_inicio) AS maxpayed

FROM paga p NATURAL JOIN oferta o NATURAL JOIN espaco e NATURAL JOIN aluga

WHERE YEAR(p.data) = 2016

GROUP BY e.morada;

e)

Criação da Base de Dados

(schema.sql e populate.sql)

Triggers e Stored Procedures

(Restrições de integridade)

Aplicação

a)

b)

c)

d)

e)