



<vcsglway> Script-62

segunda-feira, 29 de abril de 2024 22:13

```
1 set search_path to cargasaereas;
2 SELECT V.CodVoo, T.Origem, T.Destino
3 FROM Voo V
4 JOIN Rota R ON V.CodVoo = R.CodVoo
5 JOIN Trecho T ON R.Origem = T.Origem AND R.Destino = T.Destino
6 JOIN Empresa E ON V.CodEmp = E.CodEmp
7 WHERE E.Nome = 'Gol Linhas Aéreas'
8 ORDER BY V.CodVoo, R.H_Saida;
9
10
11 --um voo a 23:40, que atrasa e sai as 00:10 do outro dia, deveria ser
    impresso?
12 --resposta item 2
13 SELECT V.* AS Origem, T2.Destino AS Destino_Imediato
14 FROM Viagem V
15 JOIN Rota R ON V.CodRota = R.CodRota
16 JOIN Trecho T1 ON R.Origem = T1.Origem AND R.Destino = T1.Destino
17 JOIN Trecho T2 ON R.Destino = T2.Origem
18 WHERE T1.Origem = 'GIG'
19 AND DATE(V.Data) = '2022-11-07'
20 ORDER BY R.h_saida ;
21
22
23 --item 4
24 select r.origem from rota r where r.codvoo
25 in (select v.codvoo from voo v where v.codemp = 'AZU')
26 union (select rr.destino from rota rr where rr.codvoo
27 in (select vv.codvoo from voo vv where vv.codemp = 'AZU'));
28
29
30
31 --exercicio 5
32
33
34
35 select * from viagem v ;
36
37
38
39
40 --6
41 WITH PrimeiraOrigem AS (
42     SELECT CodVoo, Origem AS PrimeiraOrigem
43     FROM (
44         SELECT CodVoo, Origem, ROW_NUMBER() OVER(PARTITION BY CodVoo
45             ORDER BY H_Saida) AS RN
46         FROM Rota
47     ) AS T
48     WHERE RN = 1
49 ), UltimoDestino AS (
50     SELECT CodVoo, Destino AS UltimoDestino
51     FROM (
52         SELECT CodVoo, Destino, ROW_NUMBER() OVER(PARTITION BY CodVoo
```



```

    ORDER BY H_Chegada DESC) AS RN
52     FROM Rota
53   ) AS T
54   WHERE RN = 1
55 ), NumEscalas AS (
56   SELECT R.CodVoo, COUNT(*) AS NumEscalas
57   FROM Rota R
58   GROUP BY R.CodVoo
59 )
60 SELECT E.codemp AS Empresa, V.CodVoo, P0.PrimeiraOrigem,
    UD.UltimoDestino, NE.NumEscalas
61 FROM Voo V
62 JOIN Empresa E ON V.CodEmp = E.CodEmp
63 LEFT JOIN PrimeiraOrigem P0 ON V.CodVoo = P0.CodVoo
64 LEFT JOIN UltimoDestino UD ON V.CodVoo = UD.CodVoo
65 LEFT JOIN NumEscalas NE ON V.CodVoo = NE.CodVoo
66 ORDER BY E.Nome, V.CodVoo;
67
68 --7
69
70 select v.h_saida_real, a.codemp from viagem v
71 inner join aviao a on a.codaviao = v.codaviao
72 inner join rota r on r.codrota = v.codrota
73 where v."data" = '2022-11-07' and r.origem = 'GIG' and
74     a.codemp, v.h_saida_real) IN (
75     SELECT
76         a.codemp,
77         MIN(v.h_saida_real) AS first_h_saida_real
78     FROM
79         viagem v
80         INNER JOIN aviao a ON a.codaviao = v.codaviao
81         INNER JOIN rota r ON r.codrota = v.codrota
82     WHERE
83         v.data = '2022-11-07' AND r.origem = 'GIG'
84     GROUP BY
85         a.codemp
86   )
87 order by v.h_saida_real;
88
89
90
91 --8
92 SELECT
93     v.h_saida_real,
94     r.origem,
95     r.destino,
96     CASE
97         WHEN v.h_saida_ - v.h_chegada_real > '00:10:00' THEN 'Atrasado'
98         ELSE 'Pontual'
99     END AS observacao
100 FROM
101     viagem v
102     INNER JOIN rota r ON v.codrota = r.codrota

```

```

103     INNER JOIN voo vv ON r.codvoo = vv.codvoo
104     INNER JOIN empresa e ON vv.codemp = e.codemp
105 where e.codemp = 'AZU' and v."data" = '2022-11-07' ;
106
107
108 --9
109 with codAtraso as (
110 select vovo.codemp as codigo , v.h_saida_real - r.h_saida as atraso from
    rota r
111 inner join viagem v on v.codrota = r.codrota
112 inner join voo vovo on vovo.codvoo = r.codvoo )
113 select e.codemp , avg(ca.atraso) from empresa e
114 inner join codAtraso ca on e.codemp = ca.codigo
115 group by e.codemp
116 order by e.nome;
117
118 --10
119 select v.codvoo , v.codemp ,v2."data", r.origem, r.destino,
    v2.h_saida_real, v2.h_chegada_real from voo v
120 inner join rota r on r.codvoo = v.codvoo
121 inner join viagem v2 on v2.codrota = r.codrota
122 where v2."data" = ' 2022-11-07' and (r.origem = 'BHZ' or r.destino =
    'BHZ') and v.codemp = 'GLO';
123
124 --11
125 select v.codemp, e.codemp, v.codvoo from voo v
126 inner join empresa e on e.codemp = v.codemp
127 inner join rota r on r.codvoo = v.codvoo
128 where r.origem != 'POA' and r.destino != 'POA'
129 order by v.codemp ;
130
131 --12
132 SELECT DISTINCT
133     e.nome
134 FROM
135     empresa e
136 WHERE
137     NOT EXISTS (
138         SELECT 1
139         FROM
140             voo vv
141             INNER JOIN rota r ON vv.codvoo = r.codvoo
142             WHERE
143                 vv.codemp = e.codemp
144                 AND r.origem != 'GIG'
145                 AND r.destino != 'GIG'
146     );
147
148 --13
149 SELECT
150     e.CodEmp,
151     e.Nome
152 FROM

```

```
153     Empresa e
154 WHERE NOT EXISTS (
155     SELECT
156         t.Origem
157     FROM
158         Trecho t
159     WHERE NOT EXISTS (
160         SELECT
161             DISTINCT v.CodRota
162         FROM
163             Viagem v
164         INNER JOIN Rota r ON v.CodRota = r.CodRota
165         WHERE
166             r.Origem = t.Origem AND r.CodVoo IN (SELECT CodVoo FROM Voo
167 WHERE CodEmp = e.CodEmp)
167             OR r.Destino = t.Origem AND r.CodVoo IN (SELECT CodVoo FROM
168 Voo WHERE CodEmp = e.CodEmp)
169 )
170 GROUP BY
171     e.CodEmp, e.Nome;
172
173 --14
174
175
176
177 --15
178 WITH DistanciaMaxima AS (
179     SELECT MAX(Distancia) AS MaxDistancia FROM Trecho
180 ),
181 PontosPorTrecho AS (
182     SELECT
183         Origem,
184         Destino,
185         CASE
186             WHEN t.Distancia = d.MaxDistancia THEN 1000
187             ELSE ROUND((t.Distancia::NUMERIC / d.MaxDistancia) * 1000)
188         END AS Pontos
189     FROM
190         Trecho t
191     CROSS JOIN
192         DistanciaMaxima d
193 )
194 SELECT * FROM PontosPorTrecho;
195
196
197 --16
198
```