**Lista de Exercícios Backend – LiveHelp – 18\_07\_20**

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**Exercícios em sala**

**Questão 01**

**select**

cervejarias."name" **as** cervejaria,

cervejas.ibu **as** ibu,

cervejas.abv **as** abv,

cervejas."name" **as** cerveja,

cervejas."style" **as** tipo

**from** cervejas

**inner** **join** cervejarias

**on** cervejas.brewery\_id = cervejarias.id

**where**

cervejarias.state = 'TX' **and**

cervejas.ibu > 60 **and**

(cervejas."style" <> 'American IPA' **and** cervejas."style" <> 'American Double / Imperial IPA');

**Questão 02**

**select**

cervejas."style",

**count**(cervejas.**style**)

**from** cervejas

**group** **by** cervejas."style"

**order** **by** **count**(cervejas.**style**) **desc**

**limit** 5

**Questão 03**

**select**

cervejarias.state

**from** cervejarias

**inner** **join** cervejas

**on** cervejarias.id = cervejas.brewery\_id

**where**

cervejas.abv < 0.05 **and**

cervejas.ibu > 15

**group** **by** cervejarias.state

**order** **by** **count**(cervejas.brewery\_id) **desc**

**offset** 10

**limit** 1

**Questão 04**

**Maior amargor**

**select**

cervejarias."name"

**from** cervejarias

**inner** **join** cervejas

**on** cervejarias.id = cervejas.brewery\_id

**where** cervejas.ibu > 40

**group** **by** cervejarias.**name**

**order** **by** **count**(cervejas.**name**) **desc**

**limit** 5

**Maior teor alcoolico**

**select**

cervejarias."name"

**from** cervejarias

**inner** **join** cervejas

**on** cervejarias.id = cervejas.brewery\_id

**where** cervejas.abv > 0.070

**group** **by** cervejarias.**name**

**order** **by** **count**(cervejas.**name**) **desc**

**limit** 5

**Questão 05**

**select**

cervejarias."state"

**from** cervejarias

**inner** **join** cervejas

**on** cervejarias.id = cervejas.brewery\_id

**where** cervejas.abv > 0.070 **and** cervejas.ibu < 40

**group** **by** cervejarias.state

**order** **by** **count**(cervejas.**id**) **desc**

**limit** 1

**Questão 06**

**select**

cervejarias."state", cervejarias.city

**from** cervejarias

**inner** **join** cervejas

**on** cervejarias.id = cervejas.brewery\_id

**where**

cervejas.abv < 0.070 **and**

cervejas.ibu > 40

**group** **by**

cervejarias.state,

cervejarias.city

**order** **by** **count**(cervejarias.state) **desc**, **count**(cervejarias.city) **desc**

**limit** 1

**Exercícios para casa**

**Questão 01**

**select**

**TRUNC**(**AVG**("math score"::**integer**), 2) **as** Math,

**TRUNC**(**AVG**("reading score"::**integer**), 2) **as** Reading,

**TRUNC**(**AVG**("writing score"::**integer**),2) **as** Writing,

**count**(gender) **as** Quantidade

**from** grades

**where**

("race/ethnicity" = 'group A' **or** "race/ethnicity" = 'group C') **and**

gender = 'female' **and**

"writing score"::**real** >= 60;

**Questão 02**

**select**

"parental level of education",

**count**("parental level of education"),

**max**("math score"::**integer**)

**from** grades

**where**

"math score"::**integer** > 75 **and**

"test preparation course" = 'completed'

**group** **by**("parental level of education")

**Questão 03**

**select**

gender,

"race/ethnicity",

"math score",

"reading score",

"writing score"

**from** grades

**where**

"test preparation course" = 'none' **and**

("parental level of education" = 'some college' **or** "parental level of education" = 'some high school') **and** **not**

lunch = 'free/reduced'

**order** **by** ("math score"::**integer**) **desc**, ("reading score"::**integer**) **desc**, ("writing score"::**integer** ) **desc**

**limit** 10

**Questão 04**

**select** **count**(gender)

**from** grades

**where**

"test preparation course" = 'completed' **and**

("parental level of education" = 'bachelors degree' **or** "parental level of education" = 'masters degree' **or**

"parental level of education" = 'associates degree') **and**

lunch = 'free/reduced' **and**

"math score"::**integer** > 80 **and**

"reading score"::**integer** > 80 **and**

"writing score"::**integer** > 80

**Questão 05**

**select** **count**(gender)

**from** grades

**where**

"test preparation course" = 'completed' **and**

("parental level of education" = 'bachelors degree' **or** "parental level of education" = 'masters degree' **or**

"parental level of education" = 'associates degree' ) **and** **not**

lunch = 'free/reduced' **and**

"math score"::**integer** > 80 **and**

"reading score"::**integer** > 80 **and**

"writing score"::**integer** > 80