Banco de Dados











- Um empório de cervejas deseja catalogar sua coleção de cervejas. Para isso será necessário modelar um banco de dados que permita o registro do nome da cerveja, volume em ml, teor alcoólico, temperatura ideal para consumo e o pais de origem.
- O pais de origem deve respeitar a tabela de países fornecida pela Divisão de Estatísticas das Nações Unidas, que consiste em siglas de três caracteres alpha numéricos.
- A temperatura ideal consiste em valor mínimo e máximo.
- Os dados referentes a temperatura ideal e teor alcoólico não são obrigatórios.









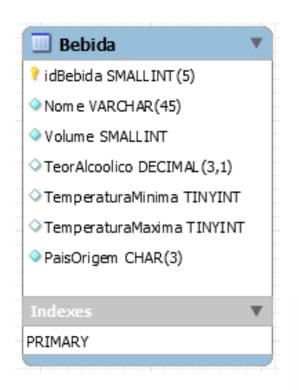












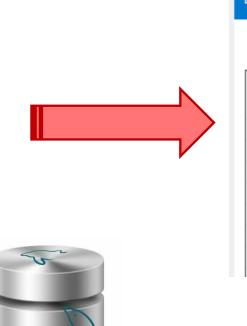
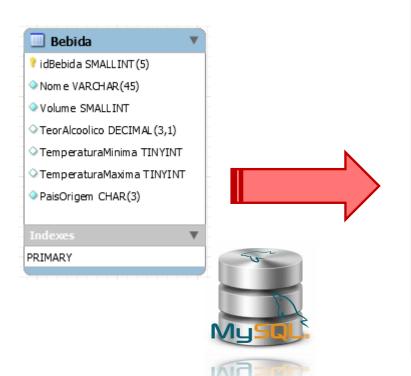


Table Name	: Bebida	
Column Name	Datatype	PK NN UQ BIN UN ZF AI
idBebida	SMALLINT(5)	
Nome	VARCHAR(45)	
Volume	SMALLINT	
TeorAlcoolico	DECIMAL(3,1)	
TemperaturaMinima	TINYINT	
TemperaturaMaxima	TINYINT	
PaisOrigem	CHAR(3)	







```
CREATE TABLE Bebida (
  idBebida SMALLINT(5) UNSIGNED ZEROFILL NOT NULL AUTO INCREMENT,
  Nome VARCHAR(45) NOT NULL,
  Volume SMALLINT NOT NULL,
  TeorAlcoolico DECIMAL(3,1),
  TemperaturaMinima TINYINT(4) ,
  TemperaturaMaxima TINYINT(4) ,
  PaisOrigem CHAR(3) NOT NULL,
  PRIMARY KEY (idBebida)
```

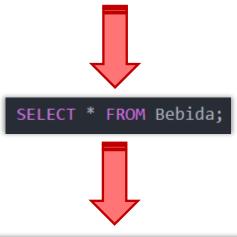




```
INSERT INTO Bebida (Nome, Volume, TeorAlcoolico,
                         TemperaturaMinima, TemperaturaMaxima, PaisOrigem)
VALUES('Brahma Extra Weiss', 355, 4.9, 0, 4, 'BRA');
                               SELECT * FROM Bebida;
                                       Edit: 🚄 🖶 Export/Import: 📳 🌄
 Result Grid
              Filter Rows:
                                                                       Wrap Cell Content:
    idBebida
                           Volume
                                  TeorAlcoolico
                                            TemperaturaMinima TemperaturaMaxima
                                                                           PaisOrigem
           Nome
           Brahma Extra Weiss
   00001
                                 4.9
                                                                          BRA
                          355
```







Re	Result Grid 🔢 🚷 Filter Rows: Edit: 🕍 🖶 Export/Import: 🖫 🐻 Wrap Cell Conter							
	idBebida	Nome	Volume	TeorAlcoolico	TemperaturaMinima	TemperaturaMaxima	PaisOrigem	
	00001	Brahma Extra Weiss	355	4.9	0	4	BRA	
	00002	Antarctica Cristal	355	5.5	0	4	BRA	





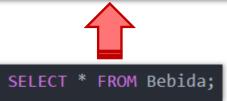
```
INSERT INTO Bebida (Nome, Volume, TeorAlcoolico,
                    TemperaturaMinima, TemperaturaMaxima, PaisOrigem)
VALUES('Bohemia Pilsen', 355, 5.0, 0, 4, 'BRA'),
      ('Negra Modelo Long Neck', 355, 4.8, 5, 7, 'MEX'),
      ('Budweiser', 343, 5.0, 0, 4, 'USA'),
      ('Stella Artois', 275, 5.2, 0, 4, 'BEL'),
      ('Coronita Extra', 210, 4.6, 0, 4, 'MEX'),
      ('Skol Beats', 330, 5.2, 0, 4, 'BRA'),
      ('Antarctica Original', 600, 5.0, 0, 4, 'BRA'),
      ('Hoegaarden White', 330, 4.9, 5, 7, 'BEL'),
      ('Norteña', 960, 5.0, 0, 4, 'URY'),
      ('Bourbon County Stout', 360, 13.0, 8, 12, 'USA');
```







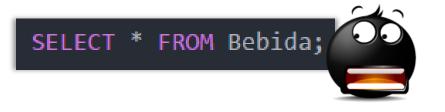
esult Grid 🔢 \infty Filter Rows: Edit: 🕳 🏗 Export/Import: 🖫 🐻 Wrap Cell Content:							
idBebida	Nome	Volume	TeorAlcoolico	TemperaturaMinima	TemperaturaMaxima	PaisOrigem	
00001	Brahma Extra Weiss	355	4.9	0	4	BRA	
00002	Antarctica Cristal	355	5.5	0	4	BRA	
00003	Bohemia Pilsen	355	5.0	0	4	BRA	
00004	Negra Modelo Long Neck	355	4.8	5	7	MEX	
00005	Budweiser	343	5.0	0	4	USA	
00006	Stella Artois	275	5.2	0	4	BEL	
00007	Coronita Extra	210	4.6	0	4	MEX	
80000	Skol Beats	330	5.2	0	4	BRA	
00009	Antarctica Original	600	5.0	0	4	BRA	
00010	Hoegaarden White	330	4.9	5	7	BEL	
00011	Norteña	960	5.0	0	4	URY	
00012	Bourbon County Stout	360	13.0	8	12	USA	







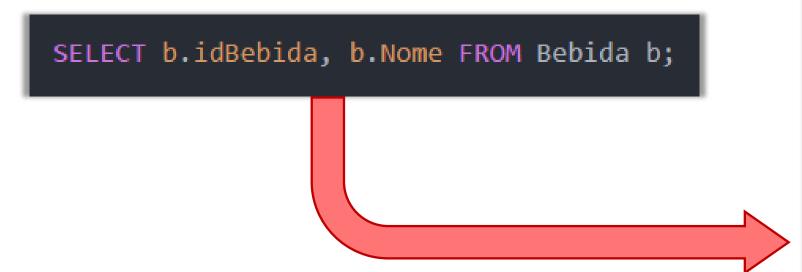
BEST



SELECT b.idBebida, b.Nome, b.Volume, b.TeorAlcoolico, b.TemperaturaMinima, b.TemperaturaMaxima, b.PaisOrigem FROM Bebida b;





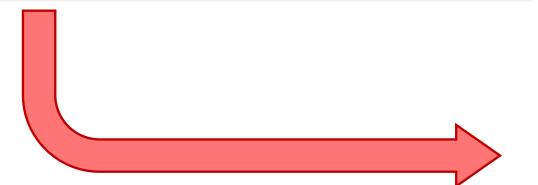


Result Grid				
idBebida	Nome			
00001	Brahma Extra Weiss			
00002	Antarctica Cristal			
00003	Bohemia Pilsen			
00004	Negra Modelo Long Neck			
00005	Budweiser			
00006	Stella Artois			
00007	Coronita Extra			
00008	Skol Beats			
00009	Antarctica Original			
00010	Hoegaarden White			
00011	Norteña			
00012	Bourbon County Stout			





SELECT b.PaisOrigem, b.idBebida, b.Nome FROM Bebida b;



Result Grid					
PaisOrigem	idBebida	Nome			
BRA	00001	Brahma Extra Weiss			
BRA	00002	Antarctica Cristal			
BRA	00003	Bohemia Pilsen			
MEX	00004	Negra Modelo Long Neck			
USA	00005	Budweiser			
BEL	00006	Stella Artois			
MEX	00007	Coronita Extra			
BRA	80000	Skol Beats			
BRA	00009	Antarctica Original			
BEL	00010	Hoegaarden White			
URY	00011	Norteña			
USA	00012	Bourbon County Stout			





SELECT b.PaisOrigem, b.idBebida, b.Nome FROM Bebida b
ORDER BY b.PaisOrigem;



Result Grid					
PaisOrigem	idBebida	Nome			
BEL	00010	Hoegaarden White			
BEL	00006	Stella Artois			
BRA	00001	Brahma Extra Weiss			
BRA	00002	Antarctica Cristal			
BRA	00003	Bohemia Pilsen			
BRA	00009	Antarctica Original			
BRA	80000	Skol Beats			
MEX	00007	Coronita Extra			
MEX	00004	Negra Modelo Long Neck			
URY	00011	Norteña			
USA	00005	Budweiser			
USA	00012	Bourbon County Stout			





```
SELECT b.PaisOrigem, b.idBebida, b.Nome FROM Bebida b
ORDER BY b.PaisOrigem;
```

SELECT b.PaisOrigem, b.idBebida, b.Nome FROM Bebida b
ORDER BY b.PaisOrigem ASC;





SELECT b.PaisOrigem, b.idBebida, b.Nome FROM Bebida b
ORDER BY b.PaisOrigem DESC;



Result Grid					
PaisOrigem	idBebida	Nome			
USA	00012	Bourbon County Stout			
USA	00005	Budweiser			
URY	00011	Norteña			
MEX	00007	Coronita Extra			
MEX	00004	Negra Modelo Long Neck			
BRA	00003	Bohemia Pilsen			
BRA	80000	Skol Beats			
BRA	00009	Antarctica Original			
BRA	00002	Antarctica Cristal			
BRA	00001	Brahma Extra Weiss			
BEL	00006	Stella Artois			
BEL	00010	Hoegaarden White			





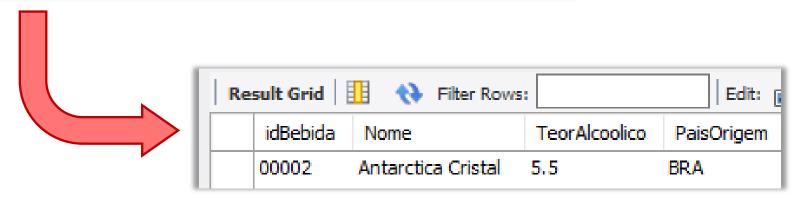
SELECT b.PaisOrigem, b.idBebida, b.Nome FROM Bebida b
ORDER BY b.PaisOrigem DESC, b.Nome ASC;

Result Grid ♦ Filter Rows: PaisOrigem idBebida Nome Bourbon County Stout USA 00012 Budweiser USA. 00005 Norteña URY 00011 00007 Coronita Extra MEX 00004 Negra Modelo Long Neck MEX **BRA** 00002 Antarctica Cristal BRA 00009 Antarctica Original BRA 00003 Bohemia Pilsen BRA 00001 Brahma Extra Weiss Skol Beats BRA 80000 BEL Hoegaarden White 00010 BEL Stella Artois 00006





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b
WHERE b.idBebida = 2;
```







```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem
FROM Bebida b
WHERE b.idBebida <> 5
ORDER BY b.idBebida;
```



Re	Result Grid 1						
	idBebida	Nome	TeorAlcoolico	PaisOrigem			
	00001	Brahma Extra Weiss	4.9	BRA			
	00002	Antarctica Cristal	5.5	BRA			
	00003	Bohemia Pilsen	5.0	BRA			
	00004	Negra Modelo Long Neck	4.8	MEX			
	00006	Stella Artois	5.2	BEL			
	00007	Coronita Extra	4.6	MEX			
	80000	Skol Beats	5.2	BRA			
	00009	Antarctica Original	5.0	BRA			
	00010	Hoegaarden White	4.9	BEL			
	00011	Norteña	5.0	URY			
	00012	Bourbon County Stout	13.0	USA			





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem
FROM Bebida b
WHERE b.idBebida < 4
ORDER BY b.idBebida;
```

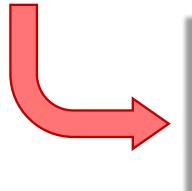


Result Grid						
	idBebida	Nome	TeorAlcoolico	PaisOrigem		
	00001	Brahma Extra Weiss	4.9	BRA		
	00002	Antarctica Cristal	5.5	BRA		
	00003	Bohemia Pilsen	5.0	BRA		





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b
WHERE b.idBebida <= 4
ORDER BY b.idBebida;
```

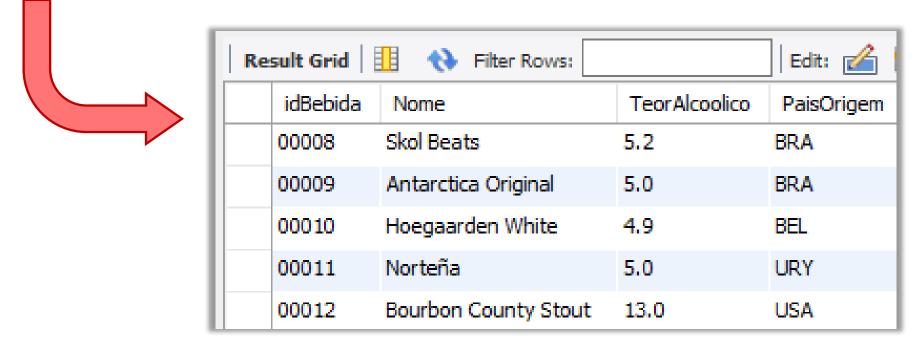


Re	sult Grid	Filter Rows:		Edit: 👍 🗒
	idBebida	Nome	TeorAlcoolico	PaisOrigem
	00001	Brahma Extra Weiss	4.9	BRA
	00002	Antarctica Cristal	5.5	BRA
	00003	Bohemia Pilsen	5.0	BRA
	00004	Negra Modelo Long Neck	4.8	MEX





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem
FROM Bebida b
WHERE b.idBebida > 7
ORDER BY b.idBebida;
```







```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem
FROM Bebida b
WHERE b.idBebida >= 7
ORDER BY b.idBebida;
```



Re	Result Grid 1							
	idBebida	Nome	TeorAlcoolico	PaisOrigem				
	00007	Coronita Extra	4.6	MEX				
	80000	Skol Beats	5.2	BRA				
	00009	Antarctica Original	5.0	BRA				
	00010	Hoegaarden White	4.9	BEL				
	00011	Norteña	5.0	URY				
	00012	Bourbon County Stout	13.0	USA				





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem
FROM Bebida b
WHERE b.idBebida = 2 OR b.idBebida = 7
ORDER BY b.idBebida;
```

Result (Result Grid						
idBe	ebida Non	ne	TeorAlcoolico	PaisOrigem			
000	02 Anta	arctica Cristal	5.5	BRA			
000	07 Cord	onita Extra	4.6	MEX			





SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b

WHERE NOT (b.idBebida = 2 OR b.idBebida = 7)
ORDER BY b.idBebida;

Result Grid	Filter Rows:		Edit: 🚄 🗏
idBebida	Nome	TeorAlcoolico	PaisOrigem
00001	Brahma Extra Weiss	4.9	BRA
00003	Bohemia Pilsen	5.0	BRA
00004	Negra Modelo Long Neck	4.8	MEX
00005	Budweiser	5.0	USA
00006	Stella Artois	5.2	BEL
00008	Skol Beats	5.2	BRA
00009	Antarctica Original	5.0	BRA
00010	Hoegaarden White	4.9	BEL
00011	Norteña	5.0	URY
00012	Bourbon County Stout	13.0	USA





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b
WHERE b.idBebida >= 5 AND b.TeorAlcoolico > 5.0
ORDER BY b.idBebida;
```

Re	Result Grid			
	idBebida	Nome	TeorAlcoolico	PaisOrigem
	00006	Stella Artois	5.2	BEL
	80000	Skol Beats	5.2	BRA
	00012	Bourbon County Stout	13.0	USA





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b
WHERE b.idBebida >= 5 AND b.idBebida <= 10
ORDER BY b.idBebida;
```

Re	Result Grid 1		Edit:	
	idBebida	Nome	TeorAlcoolico	PaisOrigem
	00005	Budweiser	5.0	USA
	00006	Stella Artois	5.2	BEL
	00007	Coronita Extra	4.6	MEX
	00008	Skol Beats	5.2	BRA
	00009	Antarctica Original	5.0	BRA
	00010	Hoegaarden White	4.9	BEL





SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem

FROM Bebida b

WHERE b.idBebida BETWEEN 5 AND 10

ORDER BY b.idBebida;

Re	sult Grid	Filter Rows:		Edit: 🗹
	idBebida	Nome	TeorAlcoolico	PaisOrigem
	00005	Budweiser	5.0	USA
	00006	Stella Artois	5.2	BEL
	00007	Coronita Extra	4.6	MEX
	80000	Skol Beats	5.2	BRA
	00009	Antarctica Original	5.0	BRA
	00010	Hoegaarden White	4.9	BEL





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem
FROM Bebida b
WHERE b.idBebida >= 5 AND b.idBebida <= 10
ORDER BY b.idBebida;</pre>
```

SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b
WHERE b.idBebida BETWEEN 5 AND 10
ORDER BY b.idBebida;

I IVE	Suit Office	H (Tillel KOWs.		<u></u> _
	idBebida	Nome	TeorAlcoolico	PaisOrigem
	00005	Budweiser	5.0	USA
	00006	Stella Artois	5.2	BEL
	00007	Coronita Extra	4.6	MEX
	00008	Skol Beats	5.2	BRA
	00009	Antarctica Original	5.0	BRA
	00010	Hoegaarden White	4.9	BEL





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b
WHERE b.idBebida NOT BETWEEN 5 AND 10
ORDER BY b.idBebida;
```

Result Grid				
idBebida	Nome	TeorAlcoolico	PaisOrigem	
00001	Brahma Extra Weiss	4.9	BRA	
00002	Antarctica Cristal	5.5	BRA	
00003	Bohemia Pilsen	5.0	BRA	
00004	Negra Modelo Long Neck	4.8	MEX	
00011	Norteña	5.0	URY	
00012	Bourbon County Stout	13.0	USA	





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem
FROM Bebida b
WHERE b.idBebida = 2 OR b.idBebida = 4 OR b.idBebida = 12 OR
b.idBebida = 8 OR b.idBebida = 5 OR b.idBebida = 13
ORDER BY b.idBebida;
Repetições!!!
```





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b
WHERE b.idBebida IN (2, 4, 12, 8, 5, 13)
ORDER BY b.idBebida;
```

Result Grid				
idBebida	Nome	TeorAlcoolico	PaisOrigem	
00002	Antarctica Cristal	5.5	BRA	
00004	Negra Modelo Long Neck	4.8	MEX	
00005	Budweiser	5.0	USA	
00008	Skol Beats	5.2	BRA	
00012	Bourbon County Stout	13.0	USA	





```
SELECT b.idBebida, b.Nome, b.TeorAlcoolico, b.PaisOrigem FROM Bebida b WHERE b.idBebida NOT IN (2, 4, 12, 8, 5, 13) ORDER BY b.idBebida;
```

Re	sult Grid	Filter Rows:		Edit: 🌈
	idBebida	Nome	TeorAlcoolico	PaisOrigem
	00001	Brahma Extra Weiss	4.9	BRA
	00003	Bohemia Pilsen	5.0	BRA
	00006	Stella Artois	5.2	BEL
	00007	Coronita Extra	4.6	MEX
	00009	Antarctica Original	5.0	BRA
	00010	Hoegaarden White	4.9	BEL
	00011	Norteña	5.0	URY





Exercícios

DER, DDL e DML (Filmes) - 02 de 04

Exercícios - DER, DDL e DML (Filmes) - 02 de 04 – Questões.pdf

- Leia o enunciado com atenção;
- Mantenha a concentração;
- Avance gradativamente;
- Verifique o resultado a cada etapa.