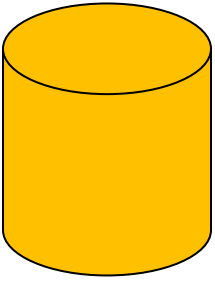
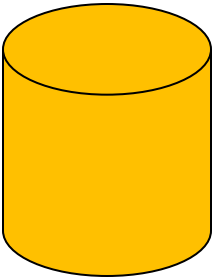
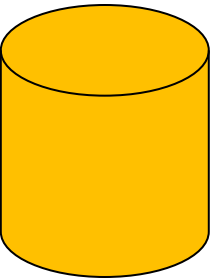


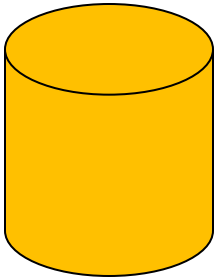


Introdução ao MySQL

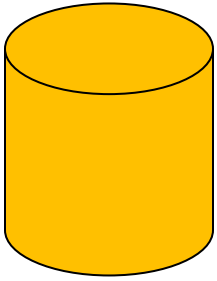


...

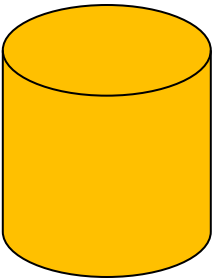


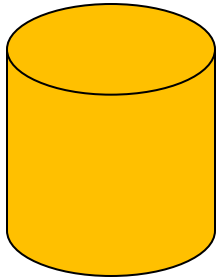


Banco de dados

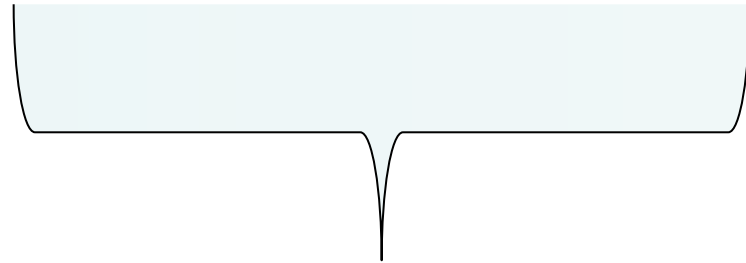


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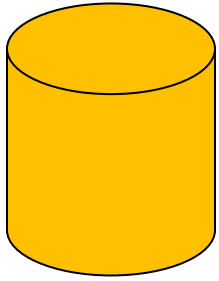




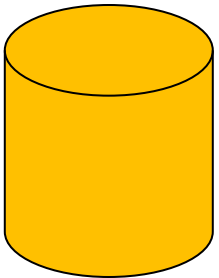
Banco de dados

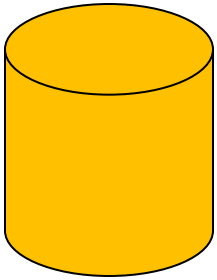


Diversas entidades

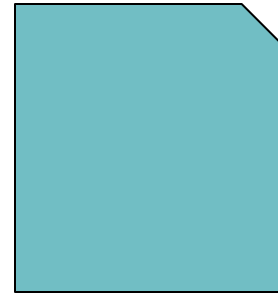
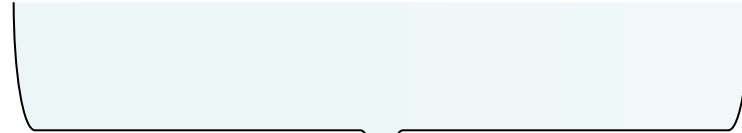


...

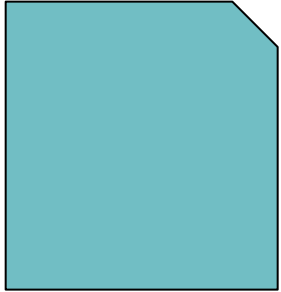




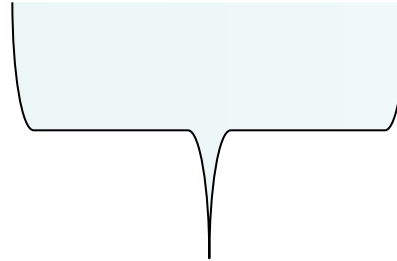
Banco de dados




Tabela

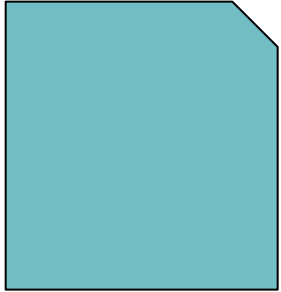


Tabela

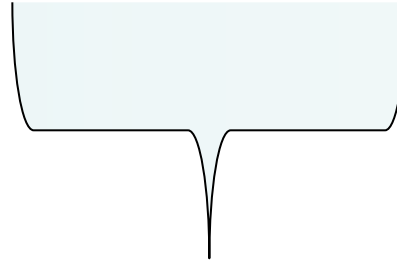




A 6x5 grid of light blue squares. A black arrow points downwards from the top edge of the second square in the second column. The top-right corner of the grid is cut off diagonally, removing the top-right corner of the top-right square.



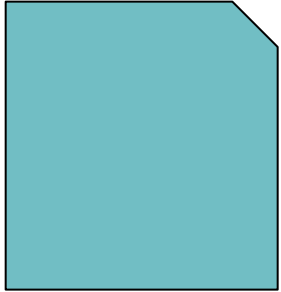
Tabela



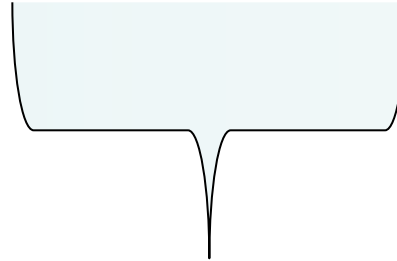
Campos

Registros





Tabela




Chave Primária

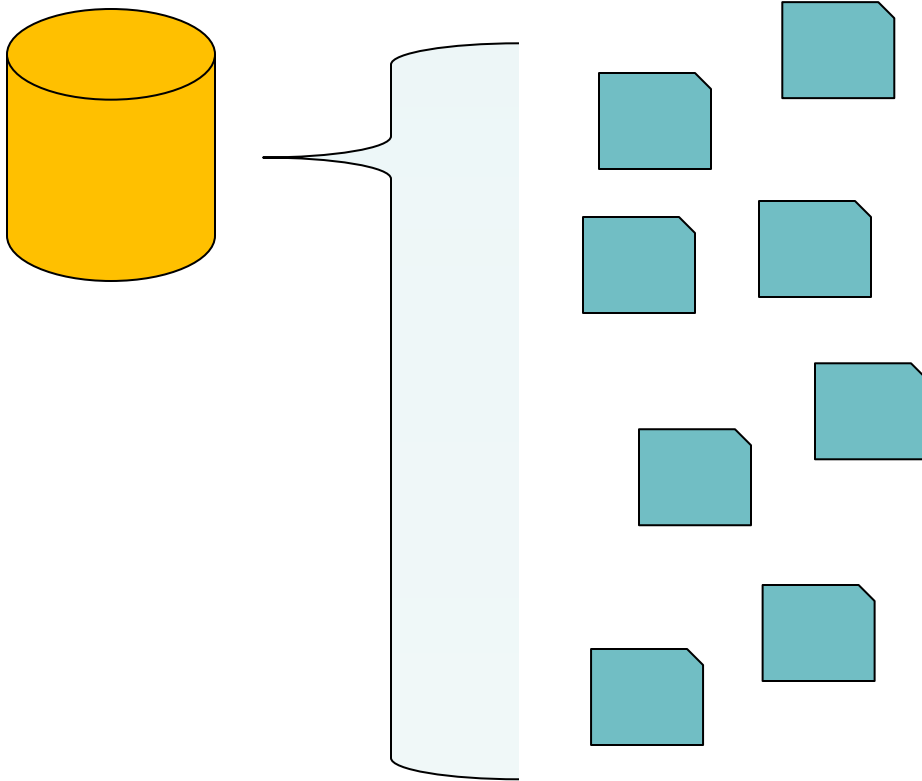
(*)

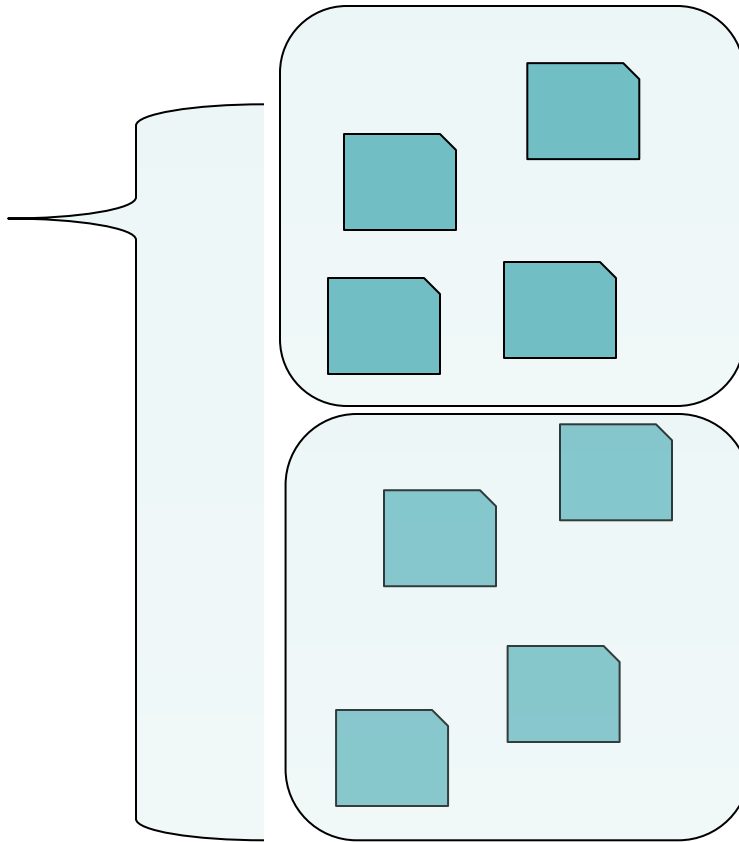
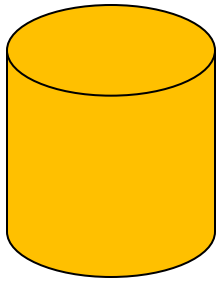
(*)

(*)	(*)			

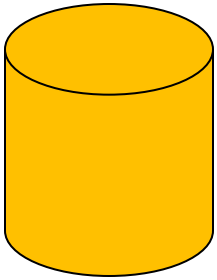




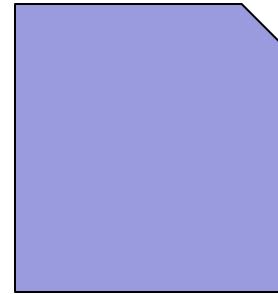
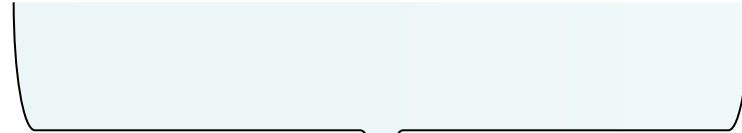




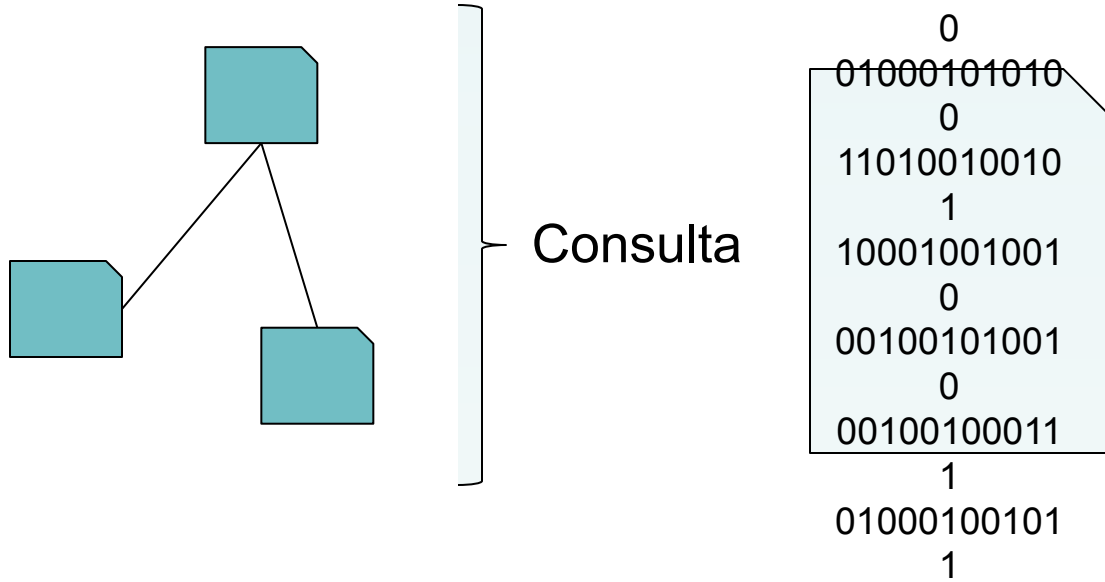
Esquemas

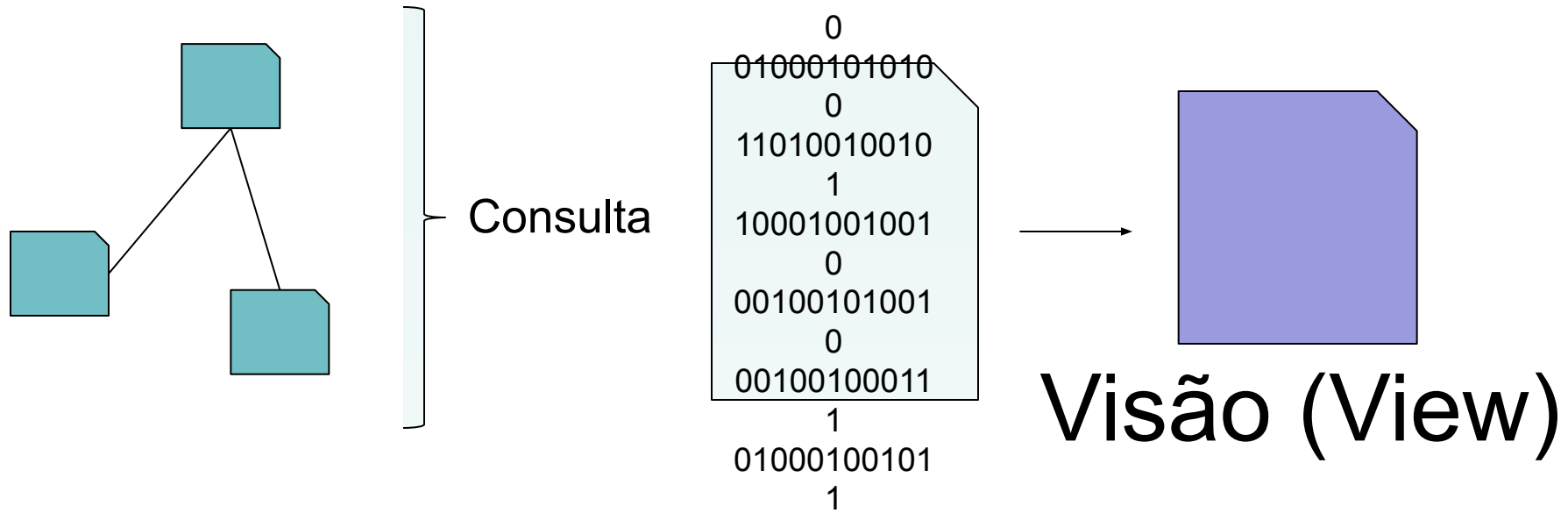


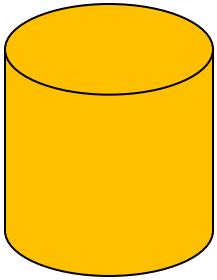
Banco de dados



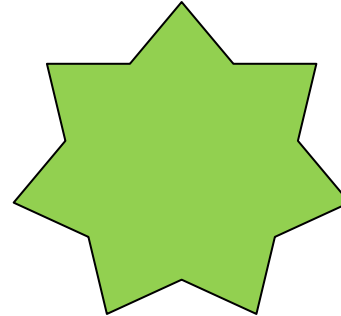
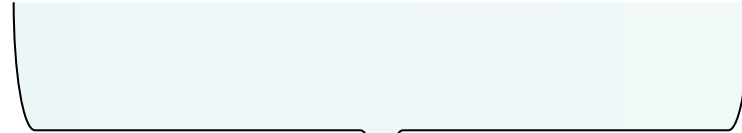
Visão (View)





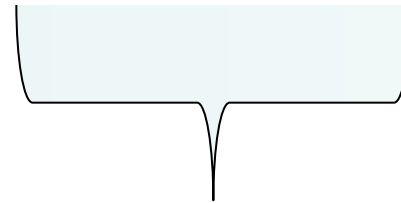
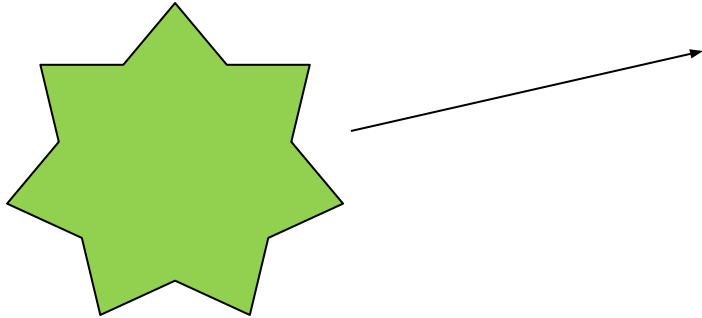


Banco de dados

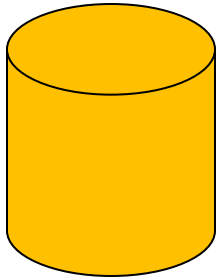


Procedures

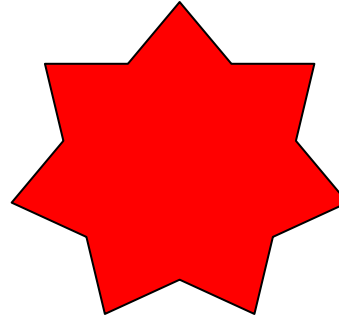
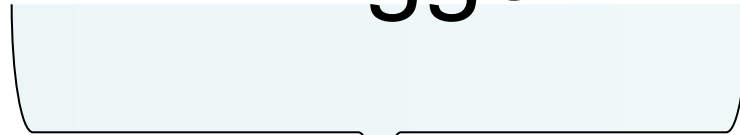
Procedure e Funções

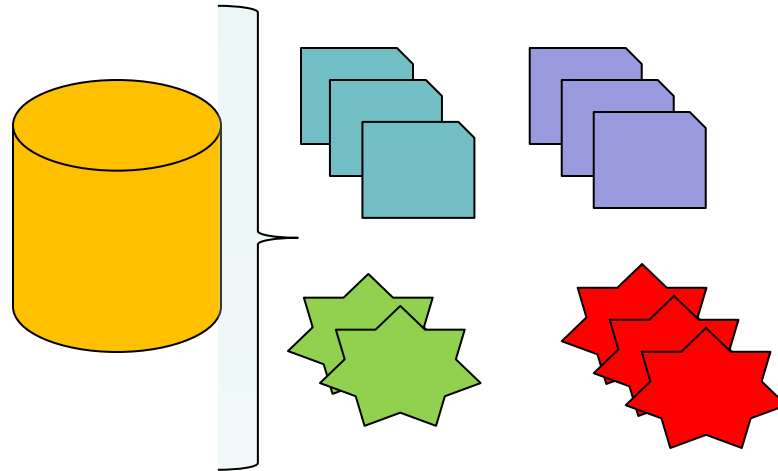


```
If a > 0 then  
X = x + y  
Z = instr(z+1)  
Select * from apha  
Put alpha in tableX
```



Trigger





Tipo	Valor em Bytes	Menor Valor (Com Sinal) - Signed	Menor Valor (Sem sinal) - Unsigned	Maior Valor (Com sinal) - Signed	Maior valor (Sem sinal) - Unsigned
TINYINT	1	-128	0	127	255
SMALLINT	2	-32768	0	32767	65535
MEDIUMINT	3	-8388608	0	8388607	16777215
INT	4	-2147483648	0	2147483647	4294967295
BIGINT	8	-2xE63	0	2xE63-1	2xE64 - 1

Propriedade UNSIGNED:

Não permite sinal no número. Por isso o conjunto de valores válidos aumentam.

Ponto Flutuante:

FLOAT – Precisão simples (4 bytes)

DOUBLE: Precisão dupla (8 bytes)

Exemplo: Se declaramos um campo `FLOAT(7,4)` se incluimos o número 999,00009 o valor armazenado será 999,0001

Fixos:

DECIMAL ou NUMERIC

Tamanho: Até 65 dígitos

Especificamos o número de dígitos e o número de casas decimais.

Exemplo: Se declaramos um campo DECIMAL(5,2) iremos poder armazenar valores somente entre -999,99 e 999,99.

Número máximo de dígitos são 65.



Criando Tabela

Único:

BIT

Tamanho: Até 64 Bits

Exemplo: BIT(1) – Pode ser 1 ou 0

BIT(2) – Pode ser 01,10,00,11

Atributos dos campos numéricos:

SIGNED ou UNSIGNED – Vai possuir ou não sinal no número

ZEROFILL – Preenche com Zeros os espaços:

Exemplo: INT(4). Se armazenarmos o valor 5 será gravado 0005.

AUTO_INCREMENT – Sequencia auto incrementada.

Exemplo: 1,2,3,4,5

Erros de OUT OF RANGE:

Vão ocorrer quando os valores estourarem os limites.

Data e Hora:

- DATE – 1000-01-01 até 9999-12-31.
- DATETIME – 1000-01-01 00:00:00 até 9999-12-31 23:59:59
- TIMESTAMP – 1970-01-01 00:00:01 UTC até 2038-01-19 UTC
- TIME – -838:59:59 e 839:59:59
- YEAR – 1901 – 2155 (Pode ser expresso no formato 2 ou 4 dígitos)

STRINGS:

- CHAR – Cadeia de caracteres com valor fixo (de 0 a 255).
- VARCHAR – Cadeia de caracteres com valor variado (de 0 a 255)

CHAR(4) – “aa” – “ aa”

VARCHAR(4) – “aa” – “aa”

STRINGS:

- BINARY – Cadeia de caracteres com valor fixo (de 0 a 255). Expressos em Binário.
- VARBINAY – Cadeia de caracteres com valor variado (de 0 a 255). Expressos em Binário.

STRINGS:

- BLOB – Binário longo. Podemos ter:
 - TINYBLOB
 - BLOB
 - MEDIUMBLOB
 - LONGBLOB
- TEXT – Texto longo
 - TINYTEXT
 - TEXT
 - MEDIUMTEXT
 - LONGTEXT

STRINGS:

ENUM

- Permite armazenar uma lista pré-definida de valores.
- Exemplo:

Size ENUM('x-small', 'small', 'medium', 'large', 'x-large')



Criando Tabela

Atributos dos campos String:

SET e COLLATE – Que tipo de conjunto de caracteres serão suportados.



Criando Tabela

SPACIAL:

- GEOMETRY
- POINT
- LINESTRING
- POLYGON

Cadastro de Clientes

- CPF do cliente
- O nome completo
- Endereço (Rua, bairro, cidade, estado e CEP)
- Data de nascimento
- A idade
- O sexo
- O limite de crédito para ele comprar produtos
- O volume mínimo de sucos que ele pode comprar
- Se ele já realizou a primeira compra



Criando Tabela

Cadastro de Produtos

- Código do produto
- Nome do produto
- Embalagem
- Tamanho
- Sabor
- Preço de Lista