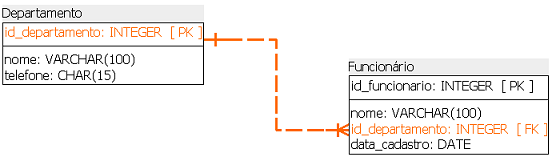
**Lista de Exercícios 1 – MySQL (Aluno)**

[](http://3.bp.blogspot.com/-cGWFkabZYyI/TkiFhqUhITI/AAAAAAAAAe0/01GzBFRtfJo/s1600/diagrama-01.png)

1. Visualizar os databases existentes:

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| --- |
| SHOW DATABASES; |

1. Criar um database chamado "sistema":

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| --- |
| CREATE DATABASE sistema2 CHARACTER SET utf8 COLLATE utf8\_general\_ci; |

1. Visualizar novamente os databases existentes e definir como padrão o database "sistema":

|  |
| --- |
| SHOW DATABASES;  USE sistema; |

1. Definir o mecanismo padrão como InnoDB (transacional). Este comando funciona somente no MySQL.

FAZER DURANTE A CRIAÇÃO DAS TABELAS.

|  |
| --- |
| 1. Definir o mecanismo padrão para aceitar acentuação na inclusão de dados. Isso deve ser feito antes da entrada de dados. Os dados que já foram armazenados não mostrará acentuação.   ALTER DATABASE sistema2 CHARACTER SET utf8 COLLATE utf8\_general\_ci;  FAZER DURANTE A CRIAÇÃO DAS TABELAS.  COLLATE utf8\_general\_ci; |

1. Criar a tabela "departamento", conforme especificado no diagrama:

|  |
| --- |
| [CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) departamento (  id\_departamento [INT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL AUTO\_INCREMENT ,  nome [VARCHAR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(100) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ,  telefone [VARCHAR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(15) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ,  PRIMARY KEY (id\_departamento))  ENGINE = InnoDB CHARSET=utf8 [COLLATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/charset-collations.html) utf8\_general\_ci; |

1. Visualizar a estrutura da tabela "departamento":

|  |
| --- |
| [SHOW](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/show-tables.html) [TABLES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/show-tables.html);  [DESCRIBE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/describe.html) departamento |

1. Criar a tabela "funcionario", conforme especificado no diagrama (observe a chave estrangeira - Foreign Key):

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| --- |
| CREATE TABLE `sistema`.`funcionario` (  `id\_funcionario` INT NOT NULL AUTO\_INCREMENT ,  `nome` VARCHAR(100) NOT NULL ,  `id\_departamento` INT NOT NULL,  `data\_cadastro` DATE NOT NULL ,  PRIMARY KEY (`id\_funcionario`),  FOREIGN KEY (id\_departamento) REFERENCES departamento(id\_departamento))  ENGINE = InnoDB CHARSET=utf8 COLLATE utf8\_general\_ci;   1. Deletar a tabela funcionário.   drop table funcionario;   1. Criar a tabela "funcionario", conforme especificado no diagrama (sem a chave estrangeira - Foreign Key):   [CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `sistema`.`funcionario` (  `id\_funcionario` [INT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL AUTO\_INCREMENT ,  `nome` [VARCHAR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(100) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ,  `id\_departamento` [INT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ,  `data\_cadastro` [DATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ,  PRIMARY KEY (`id\_funcionario`))  ENGINE = InnoDB CHARSET=utf8 [COLLATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/charset-collations.html) utf8\_general\_ci;   1. Alterar a tabela criada anteriormente para adicionar a chave estrangeira (para quando se esquece da chave estrangeira). |
| [ALTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) funcionario ADD FOREIGN KEY (id\_departamento) REFERENCES departamento(id\_departamento) |

1. Inserindo registros na tabela "departamento" (sem especificação dos campos):

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|  |

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/insert.html) INTO departamento [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_values) (null, 'TI', '(63) 3213-9985')

1. Inserindo registro na tabela "departamento" (com especificação dos campos):

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| --- |
|  |

INSERT INTO departamento (nome, telefone) VALUES ('Produção', '(63) 3213-9989');

1. Inserir mais 5 registros na tabela “departamento”

INSERT INTO departamento VALUES

(null, 'Comercial', '(63) 3213-9989'),

(null, 'RH', '(63) 3213-9988'),

(null, 'Diretoria', '(63) 3213-9990');

1. Visualizar todos os dados da tabela "departamento":

|  |
| --- |
| select \* from departamento |

1. Visualizar todos os campos e todos os atributos da tabela "departamento" em ordem alfabética de nome:

|  |
| --- |
| [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* from departamento ORDER by nome ASC |

1. Visualizar os dados da tabela "departamento" em ordem decrescente de nome:

|  |
| --- |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `departamento` order by nome DESC |

1. Visualizar os dados dos departamentos para os quais não foram atribuídos telefones.

|  |
| --- |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `departamento` where telefone [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is) null |

1. Visualizar os dados dos departamentos que tenham telefones.

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| --- |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `departamento` where telefone [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is) not null |

1. Visualizar os dados dos departamentos cujo código seja igual a 300. Perceba que "id\_departamento" é a chave primária.

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| --- |
|  |
| SELECT \* FROM `departamento`  WHERE id\_departamento = 300 |

1. Visualizar os dados dos departamentos cujo nome começa com a letra "D":

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| --- |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `departamento` WHERE nome [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) 'D%' |

1. Visualizar os dados dos departamentos cujo nome termina com a palavra "Vendas":

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| --- |
|  |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `departamento` WHERE nome [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) '%vendas' |

1. Visualizar os dados dos departamentos cujo nome contenha a palavra "de":

|  |
| --- |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `departamento` WHERE nome [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) '%de%' |

1. Visualizar os dados dos departamentos cujo nome NÃO contenha a palavra "de":

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| --- |
|  |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `departamento` WHERE nome [not](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) '%de%' |

1. Visualizar o telefone do departamento cujo código identificador seja igual a 300:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) telefone FROM `departamento` WHERE id\_departamento = 300

|  |
| --- |
|  |

1. Apagar departamento cujo código seja igual a 400:

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| --- |
| DELETE FROM departamento WHERE id\_departamento = 4   1. Digite o comando para fechar/desconectar do MySQL.   quit   1. Digite o comando para verificar a versão e data atual.   SELECT CURDATE() FROM `agenda`   1. Digite o comando para verificar o usuário.   [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [current\_user](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/information-functions.html#function_current_user)()   1. Digite o comando para cancelar outro comando que está no meio do processo de entrada no prompt.   \c |