



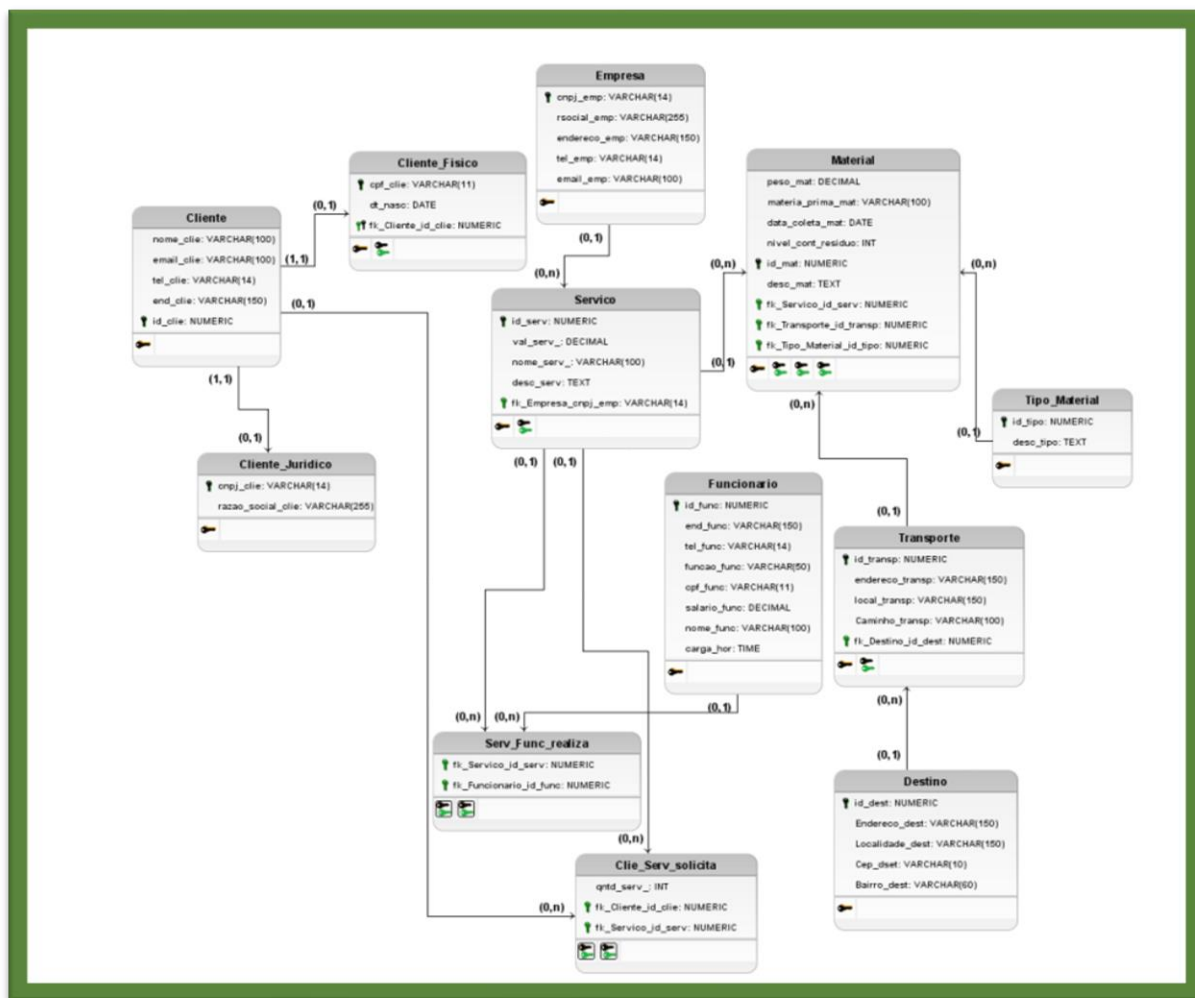
# Etec de Guarulhos - BD

## MLR & MF

### Grupo C

Renan Rithelli Correia Rocha	Hihê de Lima Oliveira
Gabriel Lima de Souza	Kauã Andrade Pacheco
Nicolas Rodrigues Sanckek	Bryan Ferreira Barboza
João Pedro Castro Barboza	Kauã Sabino
Wendell de Sousa Ferreira	Pedro Henrique Marques de Oliveira
Enrico Ribeiro Bueno	João Pedro Alencar

## MLR - Modelo Lógico Relacional



## MF - Modelo Físico

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### cliente

id_clie	N	5	PK
nome_clie	A	30	NN
email_clie	A	40	
tel_clie	C	14	
endereco_clie	A	30	

### cliente\_juridico

cnpj_clie	C	14	PK
rsocial_clie	A	50	

### cliente\_fisico

cpf_clie	C	11	PK
id_clie			FK

### empresa

cnpj_emp	C	14	PK
rsocial_emp	A	50	NN
email_emp	A	40	
tel_emp	C	14	
endereco_emp	A	30	

### serviço

id_serv	N	5	PK
cnpj_emp			FK
nome_serv	A	20	NN
val_serv	N	12,2	
desc_serv	A		

**solicita\_clie\_serv**

id_clie			FK
id_serv			FK
quantidade	N	8	NN

**funcionario**

id_clie	N	5	PK
nome_func	A	30	NN
cpf_func	C	11	NN
email_func	A	30	
tel_func	C	14	
endereco_func	A	30	
salario_func	N	10,2	
funcao_func	A	20	
carga_hor	A	15	

**realiza\_serv\_func**

id_serv			FK
id_func			FK

**destino**

id_dest	N	5	PK
endereco_dest	A	30	
cep_dest	C	8	NN
localidade_dest	A	30	
bairro_dest	A	20	

**transporte**

id_transp	N	5	PK
id_dest			FK
endereco_transp	A	30	
local_transp	A	30	
caminho_transp	A	50	

### tipo\_material

id_tipo	N	5	PK
desc_tipo	A		

### material

id_mat	N	5	PK
id_serv			FK
id_transp			FK
id_tipo			FK
peso_mat	N	5,2	
materia_prima	A	25	
data_coleta	D		
desc_mat	A		

## MF - Schema SQL

**create table cliente ( id\_clie numeric(5)**

**constraint clie\_id\_pk primary key,**

**nome\_clie varchar(30)**

**constraint clie\_nome\_nn not null,**

**email\_clie varchar(40),**

**tel\_clie char(14),**

**endereco\_clie varchar(30)**

**);**

**create table cliente\_juridico ( cnpj\_clie char(14)**

**constraint clientejuridico\_cnpj\_pk primary key,**

**rsocial\_clie varchar(50)**

**);**

```
create table cliente_fisico ( cpf_clie char(11)

    constraint clientefisico_cpf_pk primary key,

    id_clie

    clientefisico_id_fk references cliente

);
```

```
create table empresa ( cnpj_emp char(14)

    constraint emp_cnpj_pk primary key,

    rsocial_emp varchar(50)

    constraint emp_rsocial_nn not null,

    email_emp varchar(40),

    tel_emp char(14),

    endereco_emp varchar(30)

);
```

```
create table servico ( id_serv numeric(5)

    constraint serv_id_pk primary key,

    cnpj_emp

    constraint serv_cnpj_fk references empresa,

    nome_serv varchar(20)

    constraint serv_nome_nn not null,

    val_serv numeric(12,2),

    desc_serv text

);
```

```
create table solicita_clie_serv ( id_clie

    constraint soli_idclie_fk references cliente,

    id_serv

    constraint soli_idserv_fk references servico,

    quantidade numeric(8)

    constraint soli_quant_nn not null
```

);

**create table funcionario ( id\_func numeric(5)**

constraint func\_id\_pk primary key,  
nome\_func varchar(30)  
constraint func\_nome\_nn not null,  
cpf\_func char(11)  
constraint func\_cpf\_nn not null,  
email\_func varchar(30),  
tel\_func char(14),  
endereco\_func varchar(30),  
salario\_func numeric(10,2),  
funcao\_func varchar(20),  
carga\_hor varchar(15)  
);

**create table realiza\_serv\_func ( id\_serv**

constraint real\_idserv\_fk references servico,  
id\_func  
constraint real\_idfunc\_fk references funcionario  
);

**create table destino ( id\_dest numeric(5)**

constraint dest\_id\_pk primary key,  
endereco\_dest varchar(30),  
cep\_dest char(8)  
constraint dest\_cep\_nn not null,  
localidade\_dest varchar(30),  
bairro\_dest varchar(20)  
);

```
create table transporte ( id_transp numeric(5)
```

```
    constraint transp_id_pk primary key,
```

```
    id_dest
```

```
    constraint transp_iddest_fk references destino,
```

```
    endereco_transp varchar(30),
```

```
    local_transp varchar(30),
```

```
    caminho_transp varchar(50)
```

```
);
```

```
create table tipo_material ( id_tipo numeric(5)
```

```
    constraint tipo_id_pk primary key,
```

```
    desc_tipo text
```

```
);
```

```
create table material ( id_mat numeric(5)
```

```
    constraint mat_id_pk primary key,
```

```
    id_serv
```

```
    constraint mat_idserv_fk references servico,
```

```
    id_transp
```

```
    constraint mat_idtransp_fk references transporte,
```

```
    id_tipo
```

```
    constraint mat_idtipo_fk references tipo_material,
```

```
    peso_mat numeric(5,2),
```

```
    materia_prima varchar(25),
```

```
    data_coleta date,
```

```
    desc_mat text
```

```
);
```

## MF - Query SQL

---

select \* from cliente;

select \* from cliente\_juridico;

select \* from cliente\_fisico;

select \* from empresa;

select \* from servico;

select \* from solicita\_clie\_serv;

select \* from funcionario;

select \* from realiza\_serv\_func;

select \* from destino;

select \* from transporte;

select \* from tipo\_material;

select \* from material;