**FACULDADES INTEGRADAS DE ARARAQUARA**

**BACHARELADO EM SISTEMAS DE INFORMAÇÃO**

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**GUILHERME DIEGO ALBINO FRANCISCO**

**PROJETO DE BANCO DE DADOS.**

**ARARAQUARA – SP.**

**2018**

Sumário

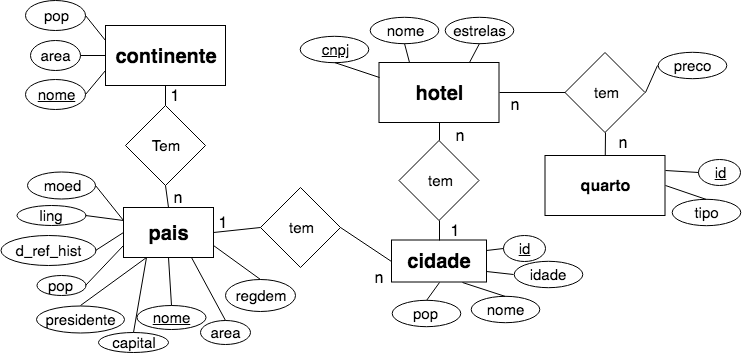
[1. Mer: 3](#_Toc510022678)

[2. Modelo relacional: 3](#_Toc510022679)

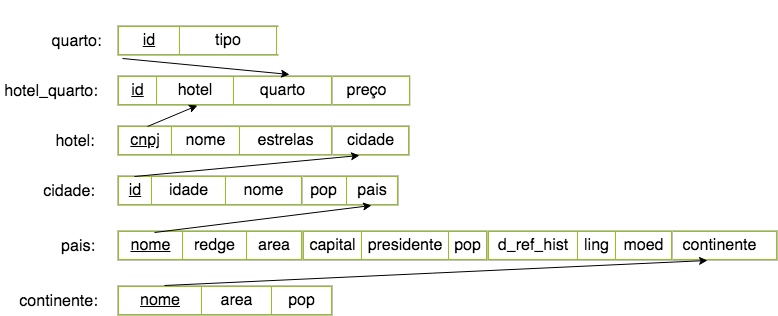
[3. Criação das tabelas ou “create table”: 3](#_Toc510022680)

[4. Consultas ou “Queries”: 5](#_Toc510022681)

# Mer:



# Modelo relacional:



# Criação das tabelas ou “create table”:

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| |  | | --- | | create table continente ( | |  | nome varchar (60) NOT NULL PRIMARY KEY, | |  | area bigint NOT NULL, | |  | pop bigint NOT NULL, | |  | ); | |  |  | |  | create table pais ( | |  | nome varchar (60) NOT NULL PRIMARY KEY, | |  | area bigint NOT NULL, | |  | pop bigint NOT NULL, | |  | moed varchar (110) NOT NULL, | |  | ling varchar (110) NOT NULL, | |  | d\_ref\_hist date NOT NULL, | |  | presidente varchar (110) NOT NULL, | |  | capital varchar (110) NOT NULL, | |  | regdem varchar (110) NOT NULL, | |  | continente\_id varchar (60) NOT NULL REFERENCES continente(nome) | |  | ); | |  |  | |  | create table cidade ( | |  | id integer IDENTITY(1,1) NOT NULL PRIMARY KEY, | |  | idade date NOT NULL, | |  | nome varchar (110) NOT NULL, | |  | pop integer NOT NULL, | |  | descricao text, | |  | pais\_id varchar (60) NOT NULL REFERENCES pais(nome), | |  | ); | |  |  | |  | create table hotel ( | |  | cnpj integer NOT NULL PRIMARY KEY, | |  | nome varchar (110) NOT NULL, | |  | estrelas integer NOT NULL, | |  | cidade\_id integer NOT NULL REFERENCES cidade(id) | |  | ); | |  |  | |  | create table quarto ( | |  | id integer IDENTITY(1,1) NOT NULL PRIMARY KEY, | |  | tipo varchar (110) NOT NULL, | |  | ); | |  |  | |  | create table hotel\_quarto ( | |  | id integer IDENTITY(1,1) NOT NULL PRIMARY KEY, | |  | preco decimal NOT NULL, | |  | hotel\_id integer NOT NULL REFERENCES hotel(cnpj), | |  | quarto\_id integer NOT NULL REFERENCES quarto(id) | |  | ) | |

# Consultas ou “Queries”:

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| |  | | --- | | -- Quais os paises cadastrados no BD? | |  | SELECT \* FROM pais | |  |  | |  | -- Nomes dos continentes | |  | SELECT nome FROM continente | |  |  | |  | -- Continentes dos Paises Cadastrados no DB | |  | SELECT continente\_id FROM pais | |  | GROUP BY continente\_id | |  |  | |  | -- Qual é a Capital da Finlândia? | |  | SELECT capital FROM pais p | |  | WHERE p.nome = "Finlândia" | |  |  | |  | -- Paises Asiaticos que obterem a independecia depois de 1950? | |  | SELECT d\_ref\_hist, nome FROM pais p | |  | WHERE p.continente\_id = "Asia" | |  | AND p.d\_ref\_hist > '1950' | |  | ORDER BY p.d\_ref\_hist | |  |  | |  | -- Paises falando a lingua portuguesa na africa? | |  | SELECT \* FROM pais p | |  | WHERE p.ling = "Português" | |  | ORDER BY p.nome | |  |  | |  | -- Quais as cidades Brasileiras? | |  | SELECT \* FROM cidade c | |  | WHERE c.pais\_id = "Brasil" | |  | ORDER BY c.nome | |  |  | |  | -- Qual é a população mundial? | |  | SELECT SUM(pop) as populacao\_mundial | |  | FROM continente | |  |  | |  | -- Número das cidades chamadas "São Luís" no mundo? | |  | SELECT COUNT(\*) as cidades\_sao\_luis FROM cidade c | |  | WHERE c.nome LIKE "%São Luís%" | |  |  | |  | -- Em qual pais se encontra o hotel mais barato? | |  | SELECT TOP 1 p.nome as nome\_do\_pais\_com\_hotel\_mais\_barato FROM hotel\_quarto hq | |  | INNER JOIN hotel h ON hq.hotel\_id = h.cnpj | |  | INNER JOIN cidade c ON h.cidade\_id = c.id | |  | INNER JOIN pais p ON c.pais\_id = p.nome | |  | ORDER BY preco | |