## HO12: Processamento e Otimização de Consulta

#### **Query 1**

SELECT A.CPF, A.Nome, B.Nome

FROM Funcionarios as A, Clientes as B, Aluguel as C, Funcionarios as D

WHERE A.CPF=B.CPF

AND B.CPF=C.CPF\_Cliente

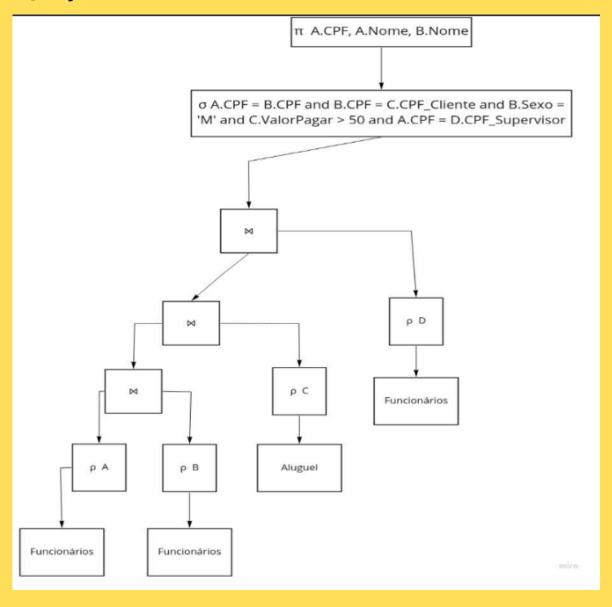
AND B.Sexo='M'

AND C.ValorPagar>50

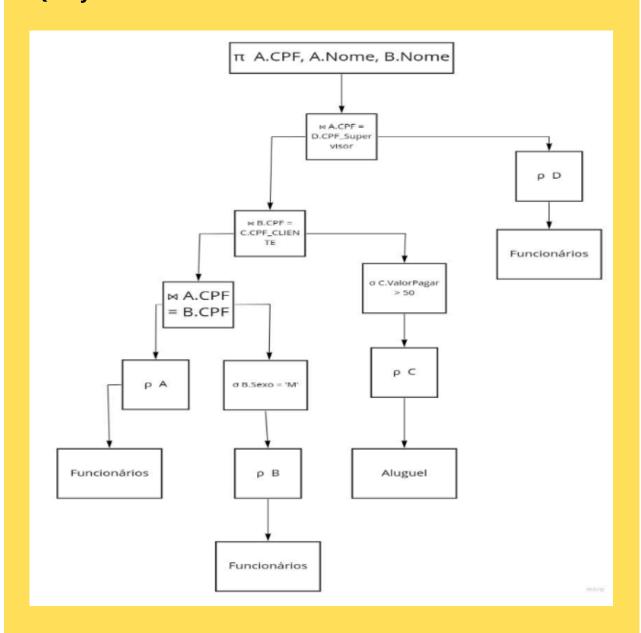
AND A.CPF=D.CPF\_Supervisor

 $\pi$  A.Nome, C.Nome  $\sigma$  A.Codigo = B.CodFilme and B.CodAtor = C.Codigo and A.Genero = 'Aventura' and A.Codigo = D.CodFilme and D.PrecoDiaria > 10 ( (  $\rho$  A Filmes  $\rho$  B AtoresEmFilmes )  $\rho$  C Atores )  $\rho$  D Midias )

#### **Query 1 Arvore Não Otimizada**



#### **Query 1 Arvore Otimizada**



#### Query 2

SELECT A.Nome, C.Nome

FROM Filmes as A, AtoresEmFilmes as B, Atores as C, Midias as D

WHERE A.Codigo=B.CodFilme

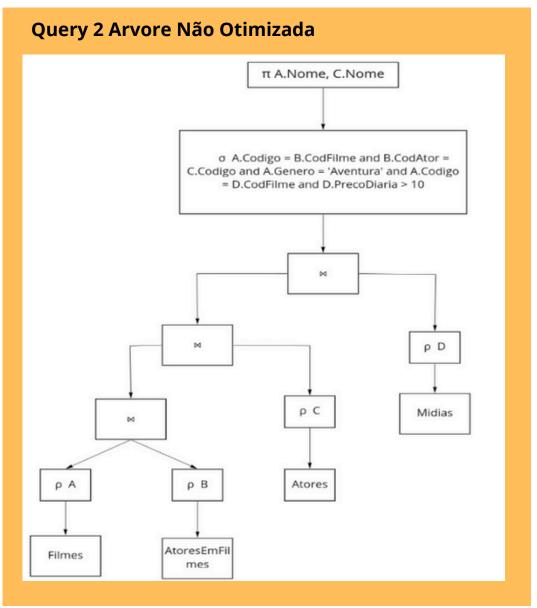
AND B.CodAtor=C.Codigo

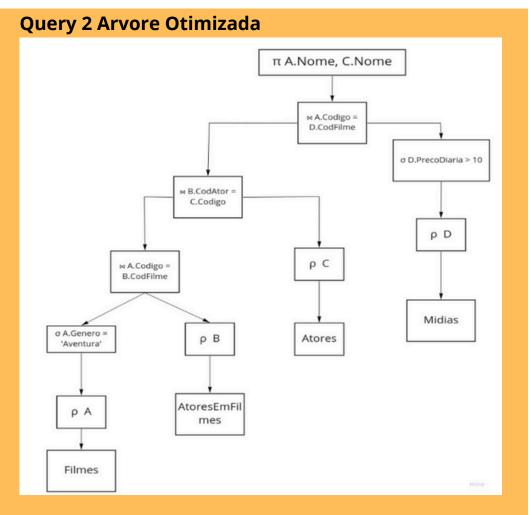
AND A.Genero='Aventura'

AND A.Codigo=D.CodFilme

AND D.PrecoDiaria>10

 $\pi$  A.Nome, C.Nome  $\sigma$  A.Codigo = B.CodFilme and B.CodAtor = C.Codigo and A.Genero = 'Aventura' and A.Codigo = D.CodFilme and D.PrecoDiaria > 10 ( (  $\rho$  A Filmes  $~\rho$  B AtoresEmFilmes )  $~\rho$  C Atores )  $~\rho$  D Midias )





#### **Query 3**

SELECT A.CPF, A.Nome, B.Nome

FROM Funcionarios as A, Clientes as B, Aluguel as C, Pagamentos as D

WHERE A.CPF=B.CPF

AND C.ValorPagar>100

AND B.CPF=C.CPF\_Cliente

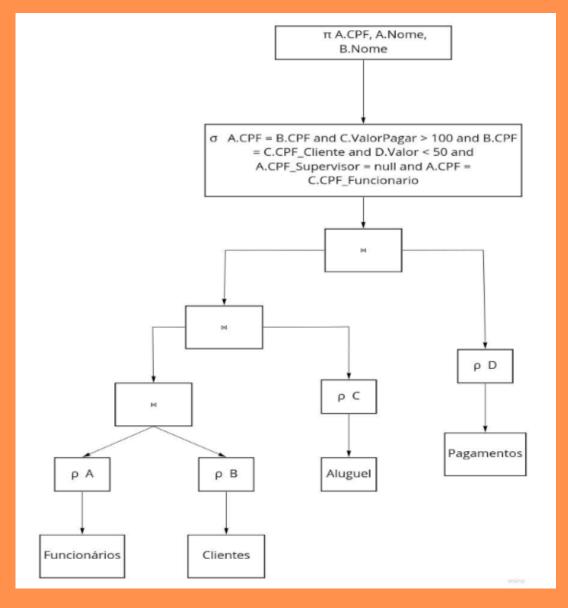
AND D.Valor<50

AND A.CPF\_Supervisor IS NULL

AND A.CPF=C.CPF\_Funcionario

 $\pi$  A.CPF, A.Nome, B.Nome  $\sigma$  A.CPF = B.CPF and C.ValorPagar > 100 and B.CPF = C.CPF\_Cliente and D.Valor < 50 and A.CPF\_Supervisor = null and A.CPF = C.CPF\_Funcionario ((( $\rho$  A Funcionarios  $\rho$  B Clientes)  $\rho$  C Aluguel)  $\rho$  D Pagamentos)

### **Query 3 Arvore Não Otimizada**



# **Query 3 Arvore Otimizada**

