



**Aplicação SCADA ATIVA e Banco
de Dados Oracle via comandos
ODBC**

Configuração do "Database" Oracle

i. Insert, Search, Update e Delete com a função ODBC no ATIVA-SCADA Utilizando Oracle

1. Abra o DCA (Database Configuration Assistant) Oracle no menu iniciar, conforme figura1:

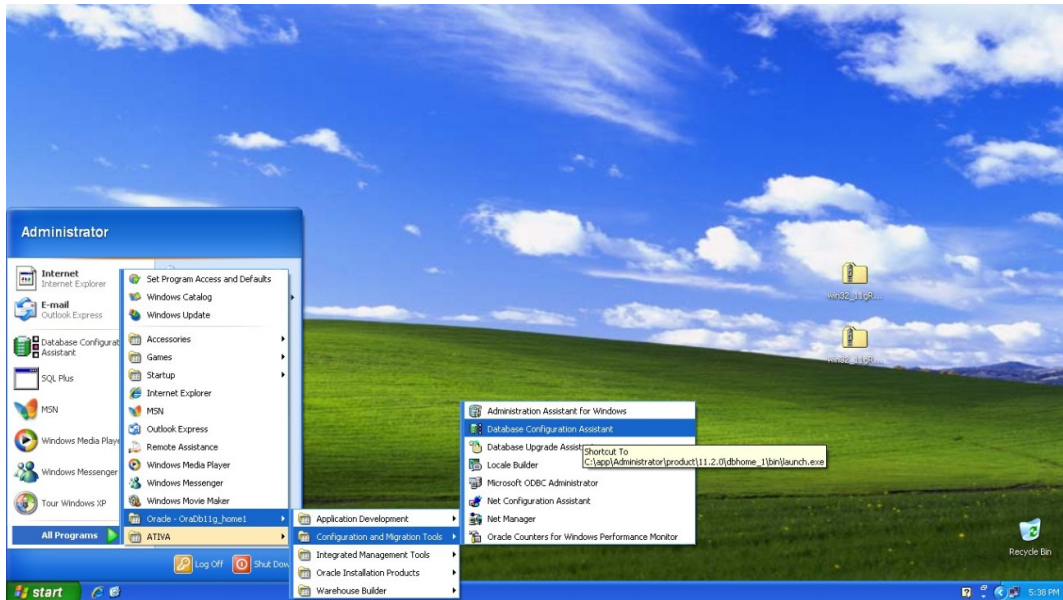


Figura 1- Database Configuration Assistant

2. Siga o passo a passo das imagens abaixo:

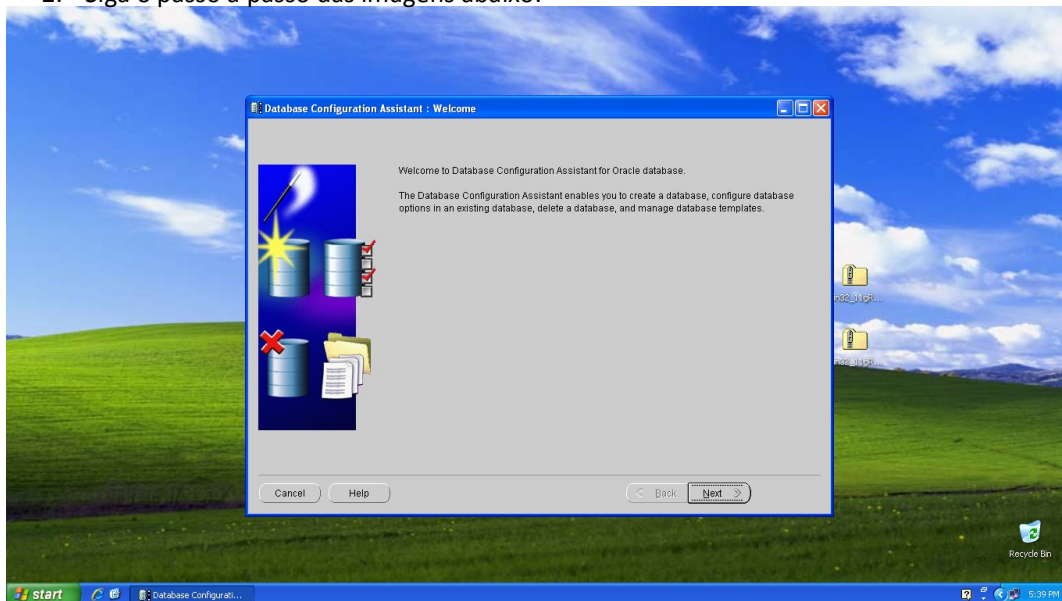


Figura 2

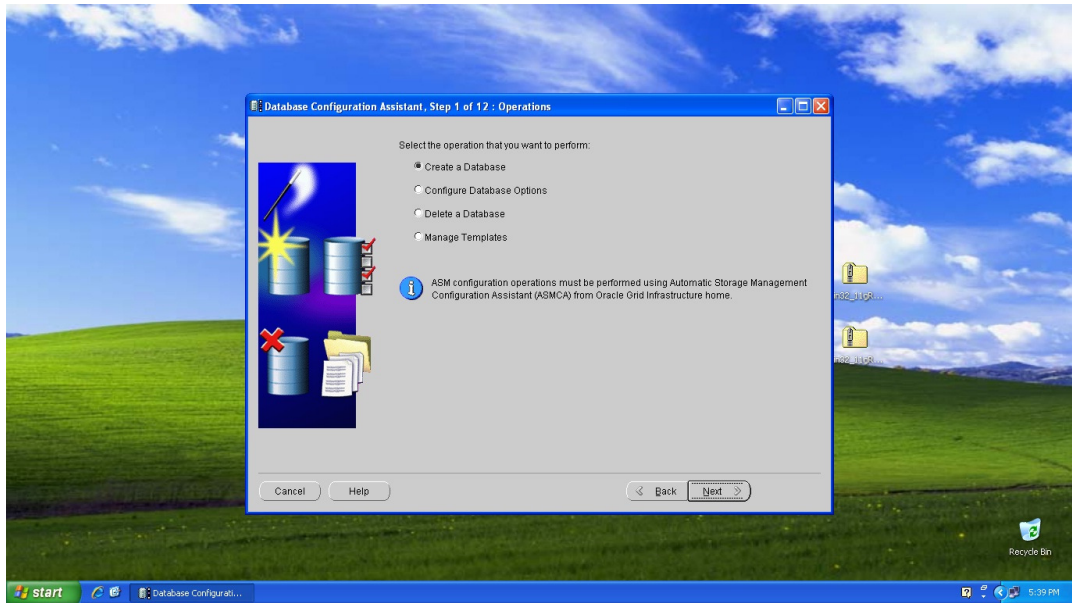


Figura 3

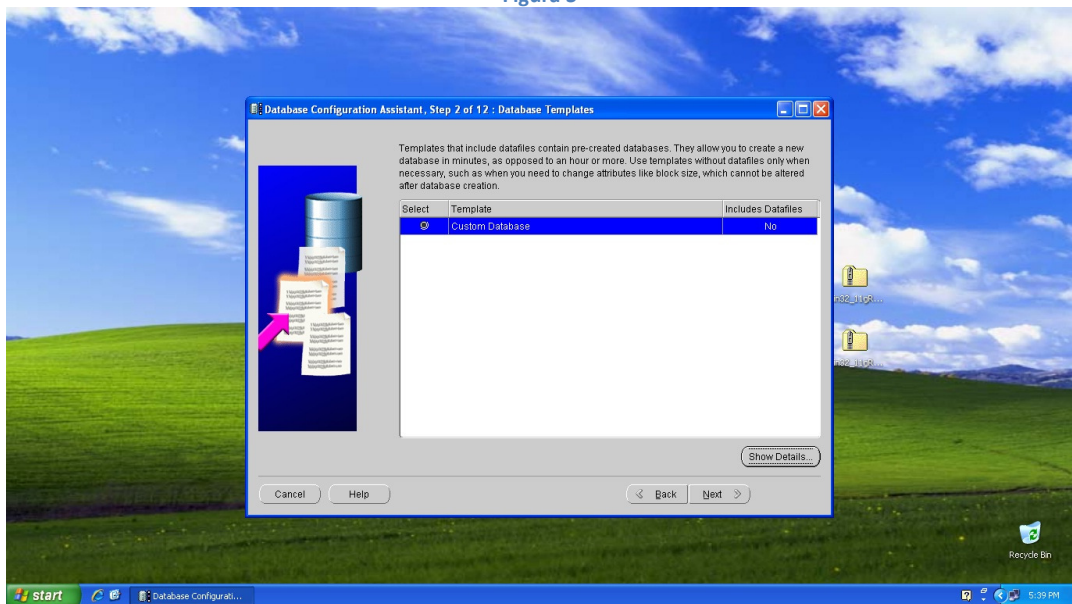


Figura 4

3. Coloque o nome do Banco de dados, neste caso ativa:

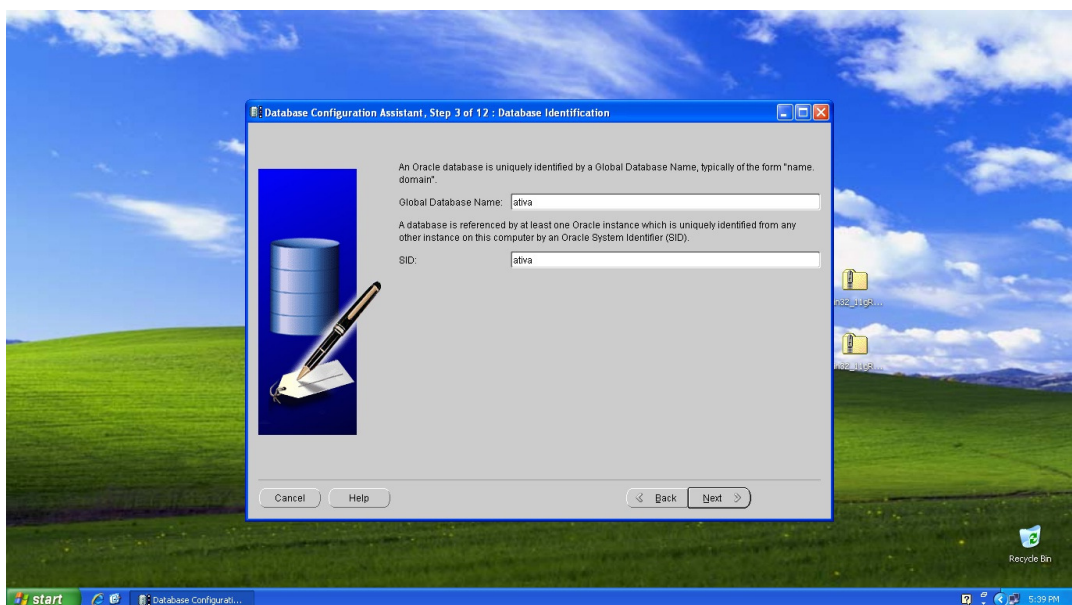


Figura 5

4. Siga o passo a passo das imagens abaixo:

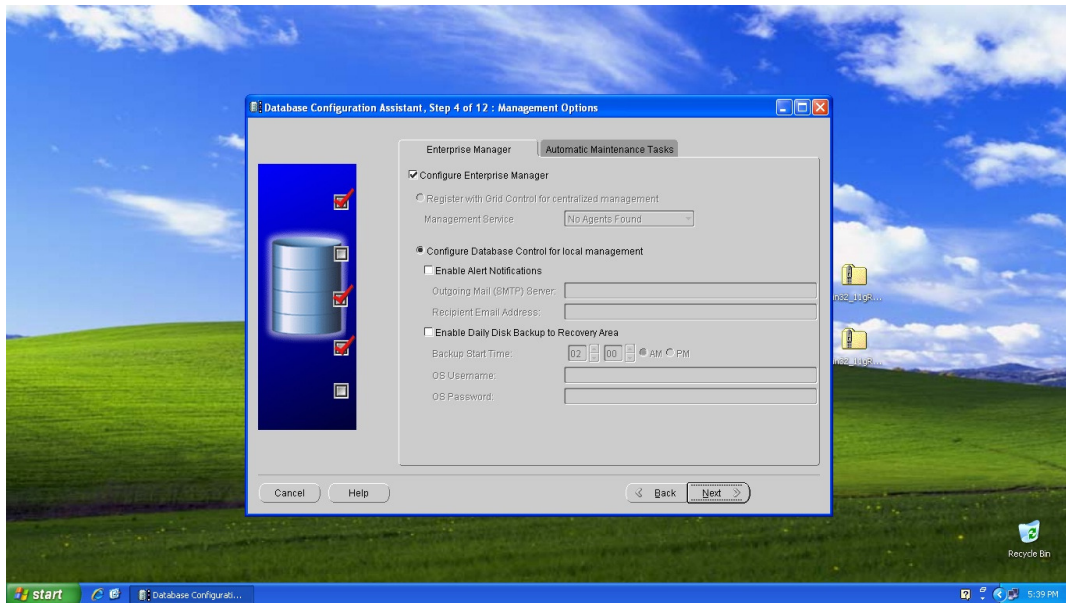


Figura 6

5. Coloque as senhas dos usuários padrões, guarde bem a senha utilizada, pode ser utilizada a mesma para todos, neste caso ativa:

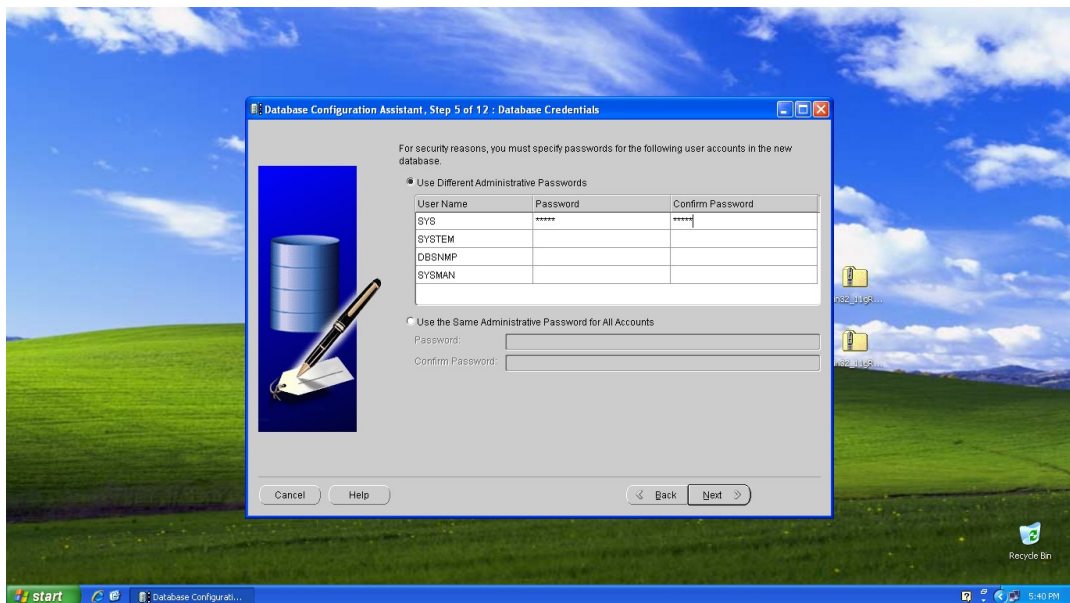


Figura 7

6. Siga o passo a passo das imagens abaixo:

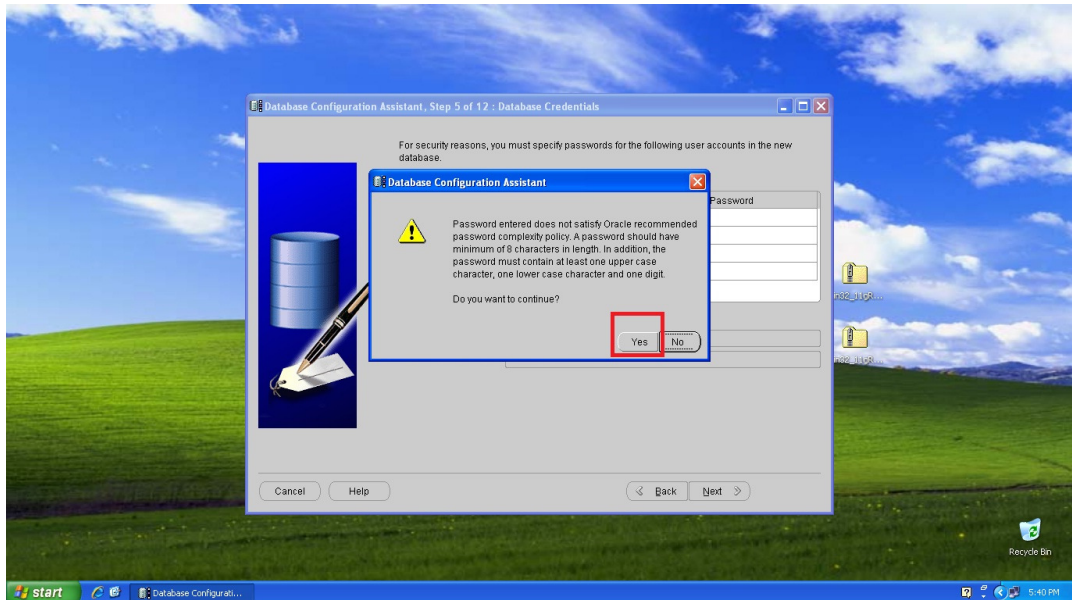


Figura 8

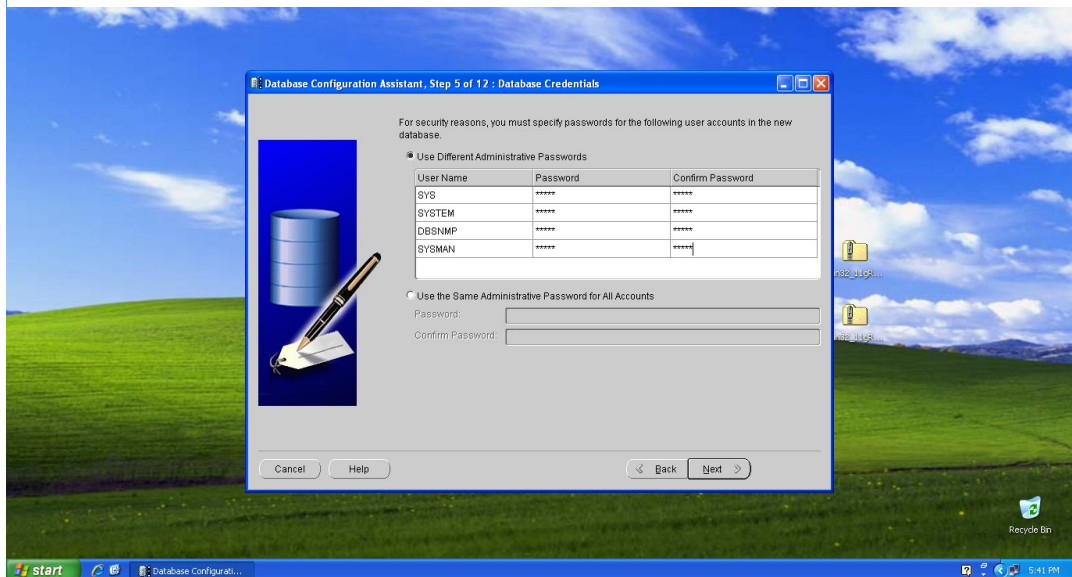


Figura 9

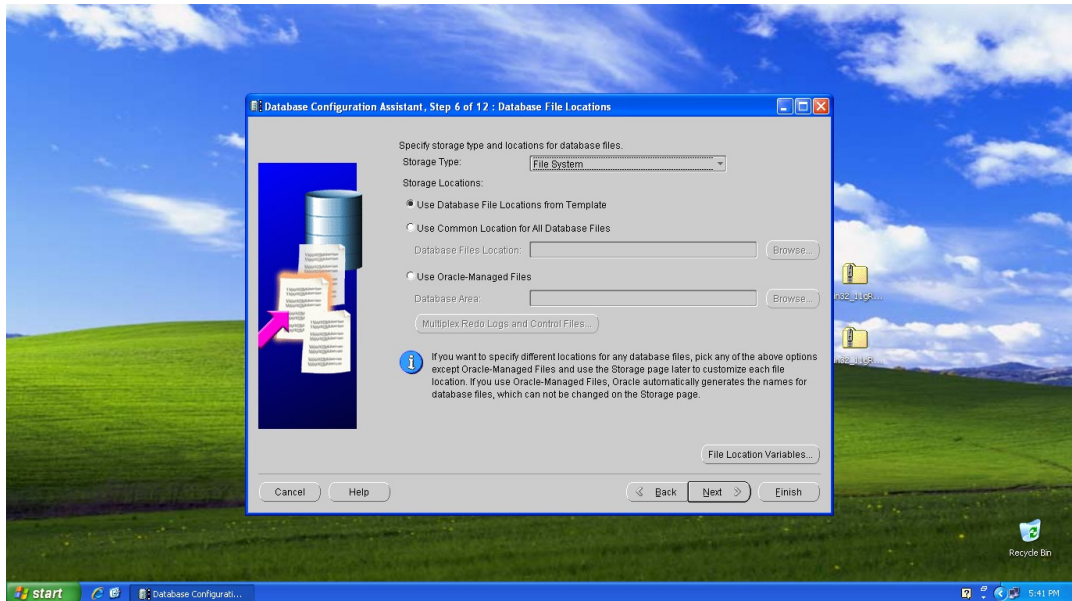


Figura 10

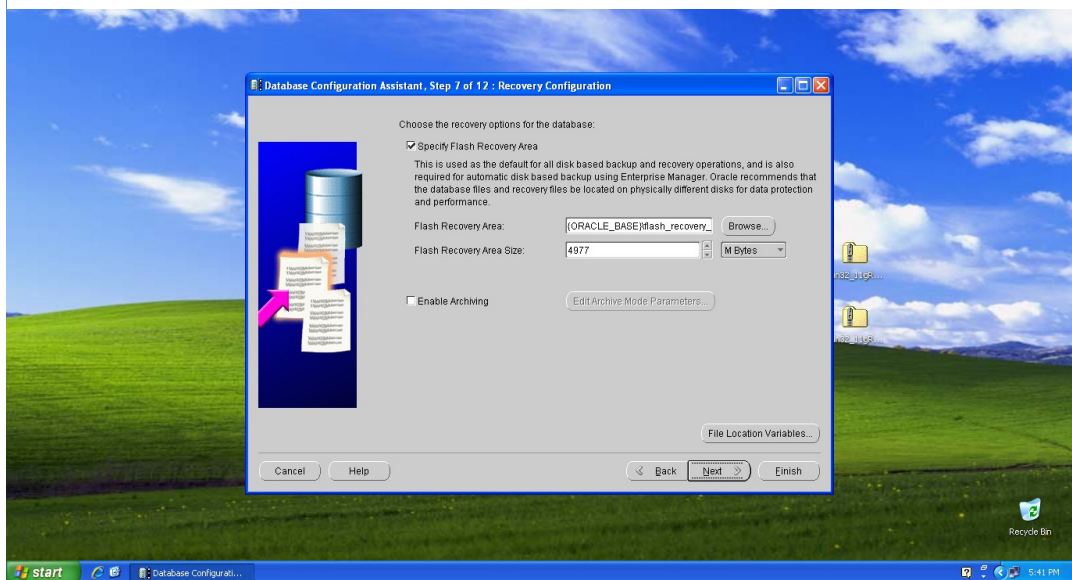


Figura 11

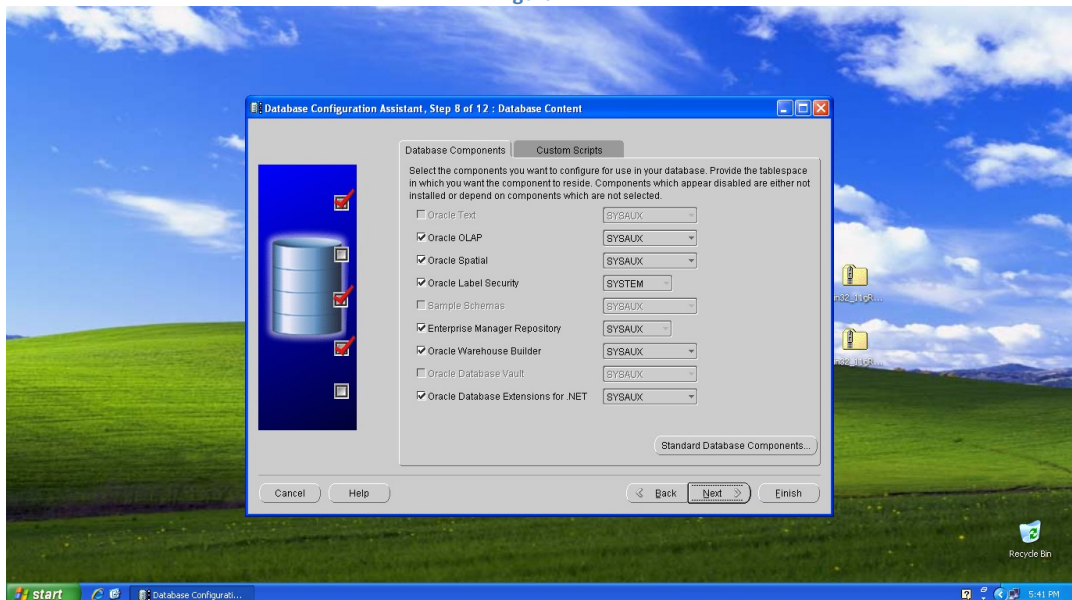


Figura 12

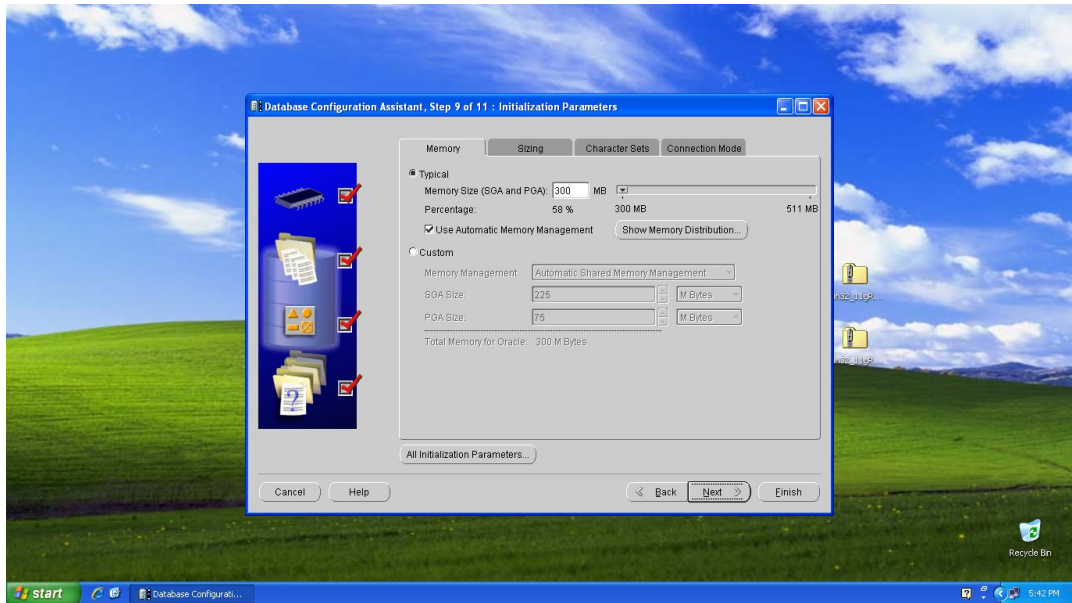


Figura 13

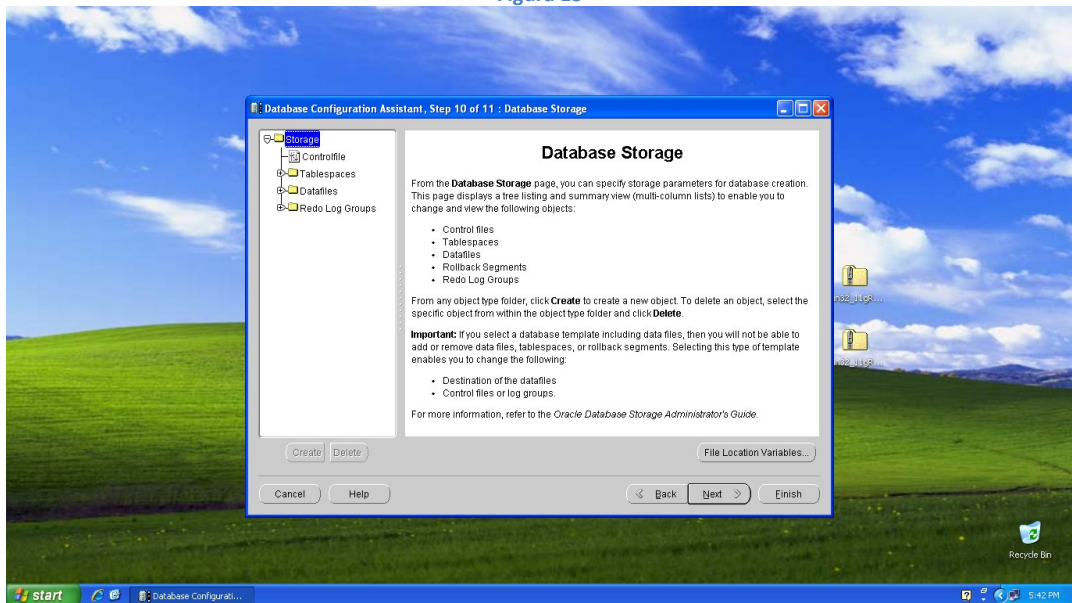


Figura 14

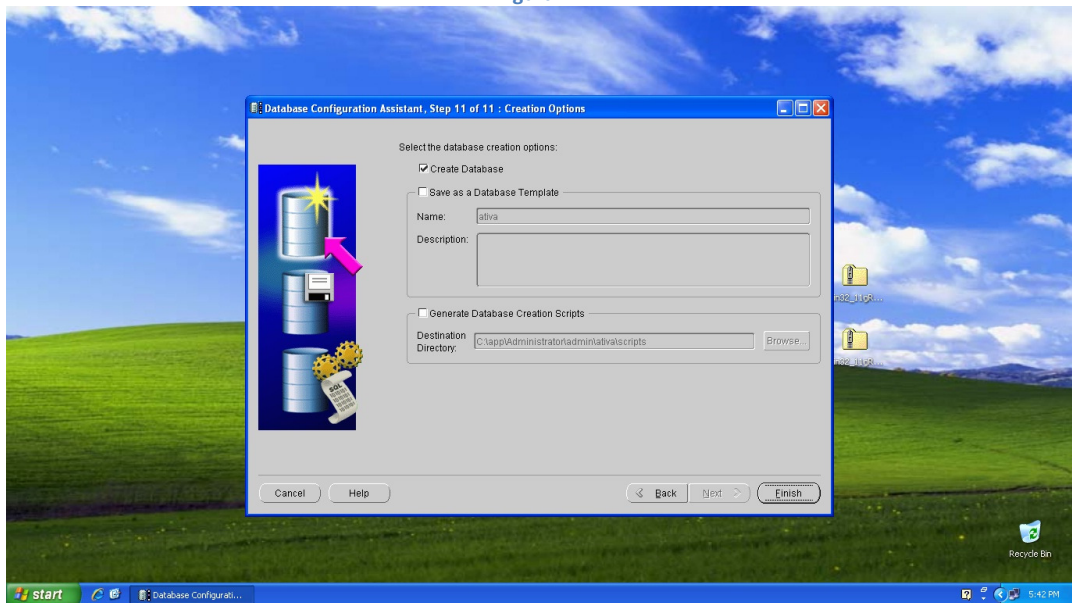


Figura 15

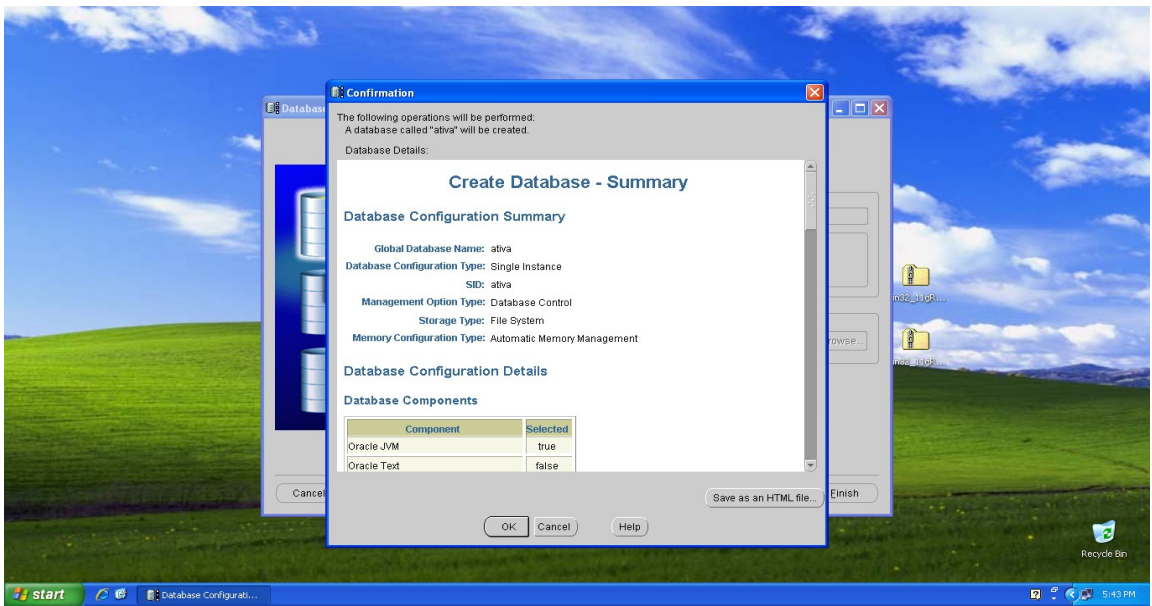


Figura 16

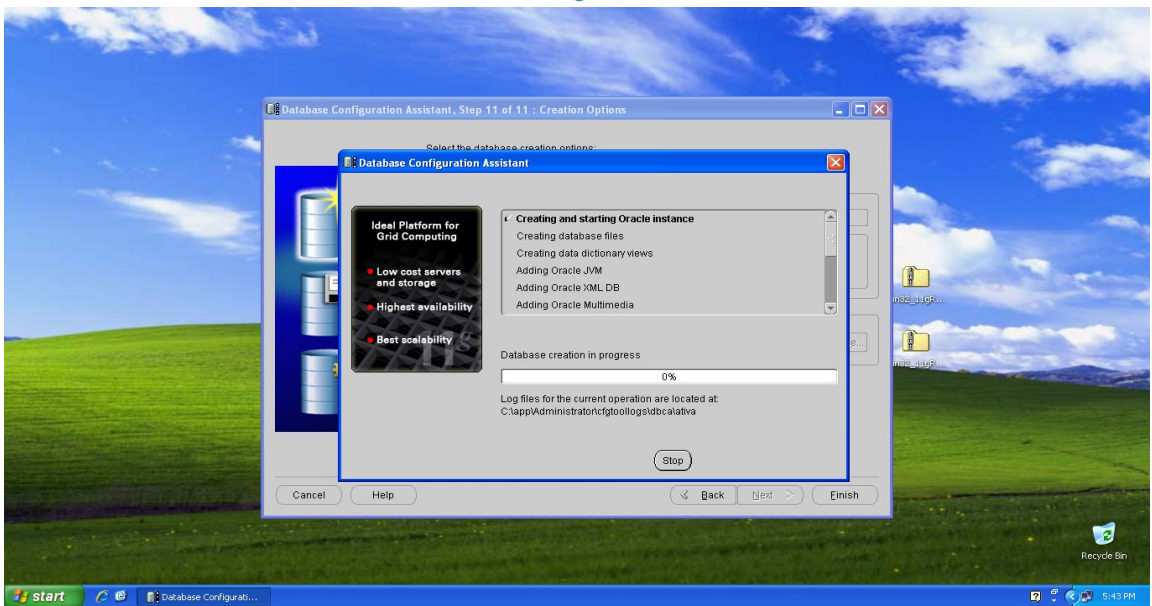


Figura 17

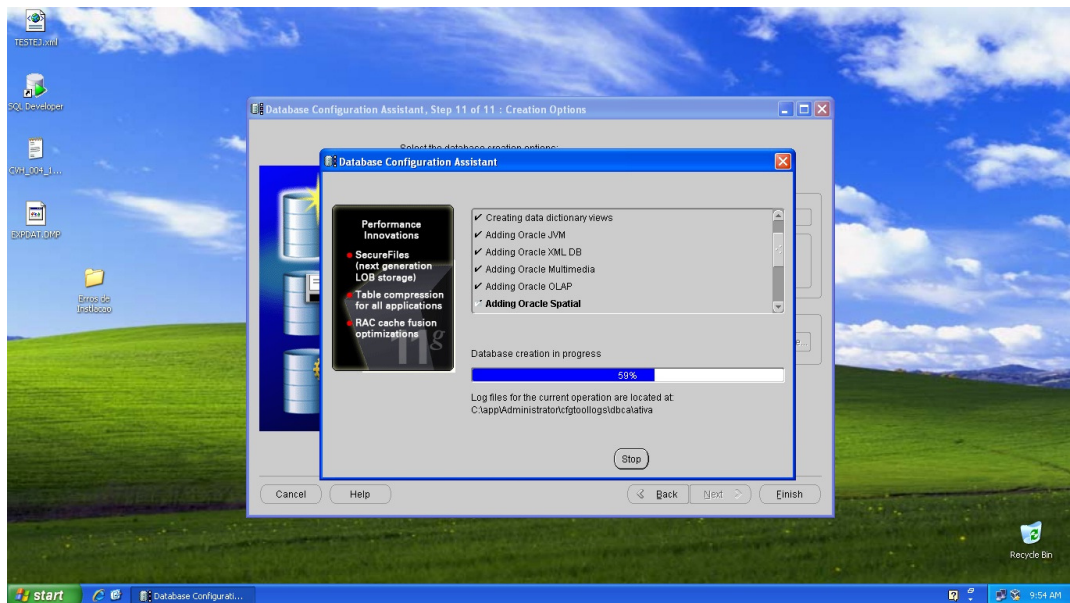


Figura 18

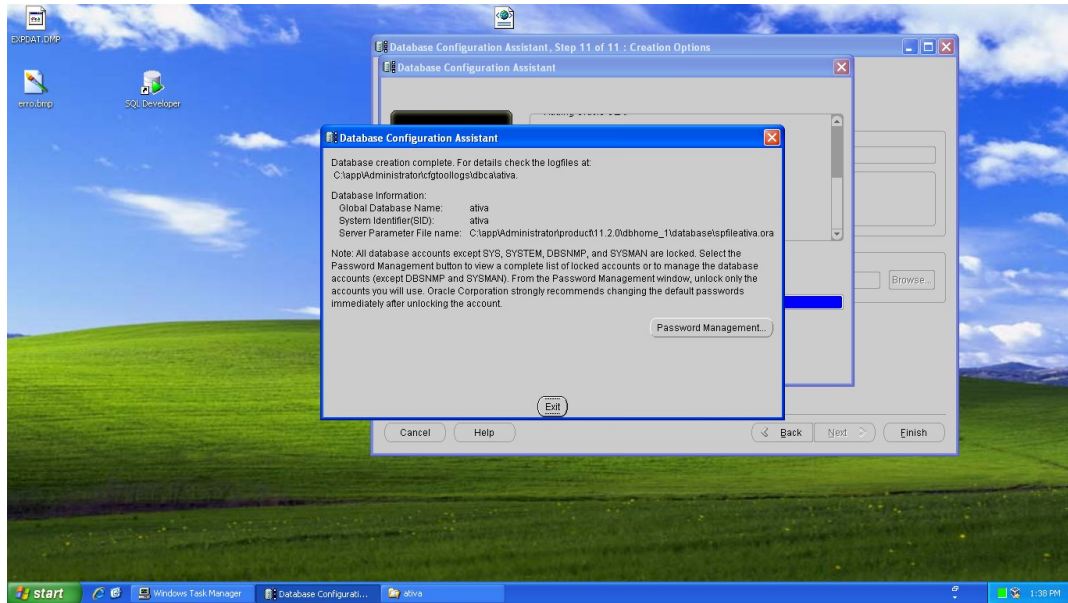


Figura 19 - Database Criado com Sucesso

7. Verifique se os usuários SYSTEM e SYS estão sem o "Tick":

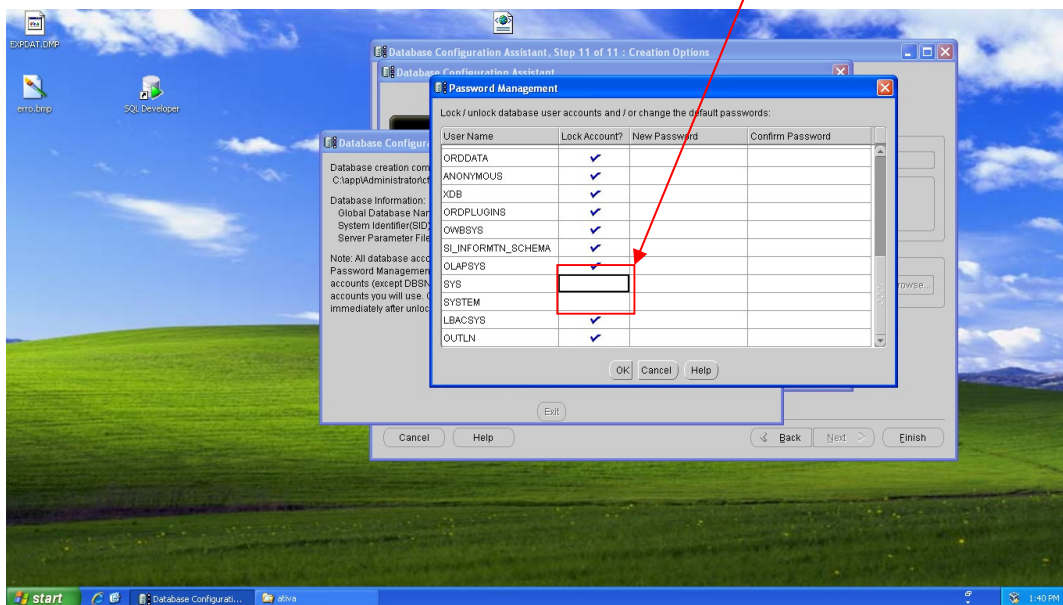


Figura 20

8. Após a conclusão da criação do Database, vá ao painel de controle: iniciar → painel de controle → Ferramentas Administrativas → Data Sources (ODBC), e siga as imagens abaixo:

Data Source Name: ativa
TNS Service Name: ATIVA
User ID: SYSTEM
Senha: ativa

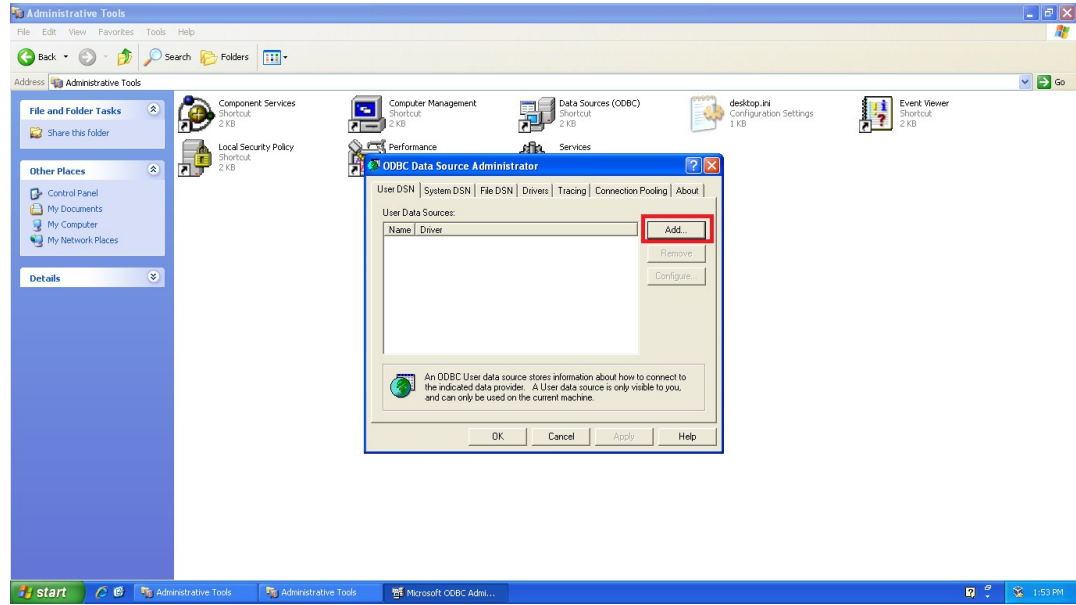


Figura 21 - Inserir ODBC Oracle

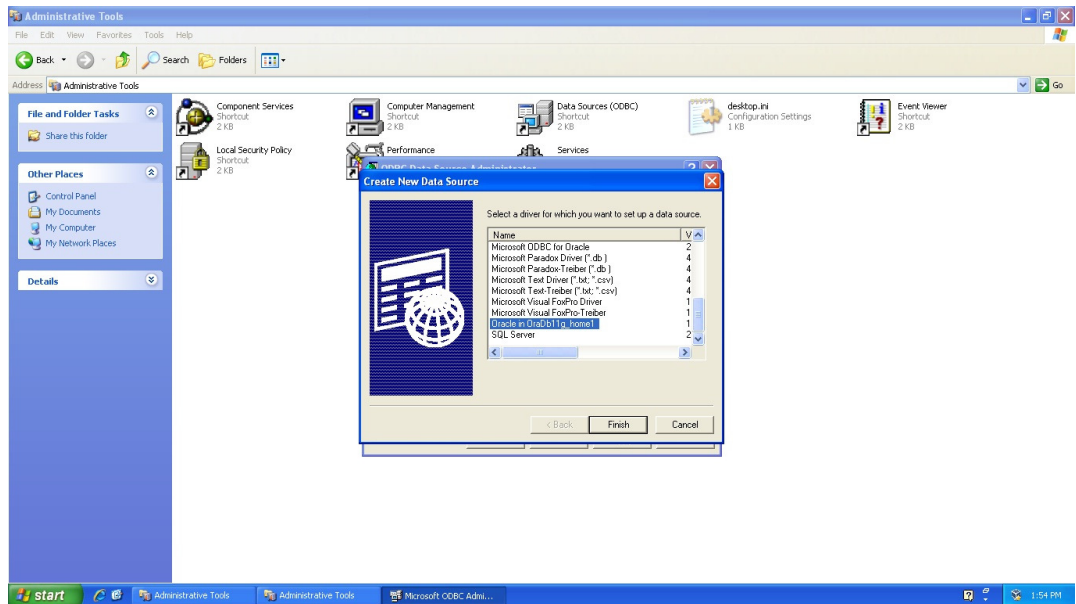


Figura 22 - Inserir ODBC Oracle

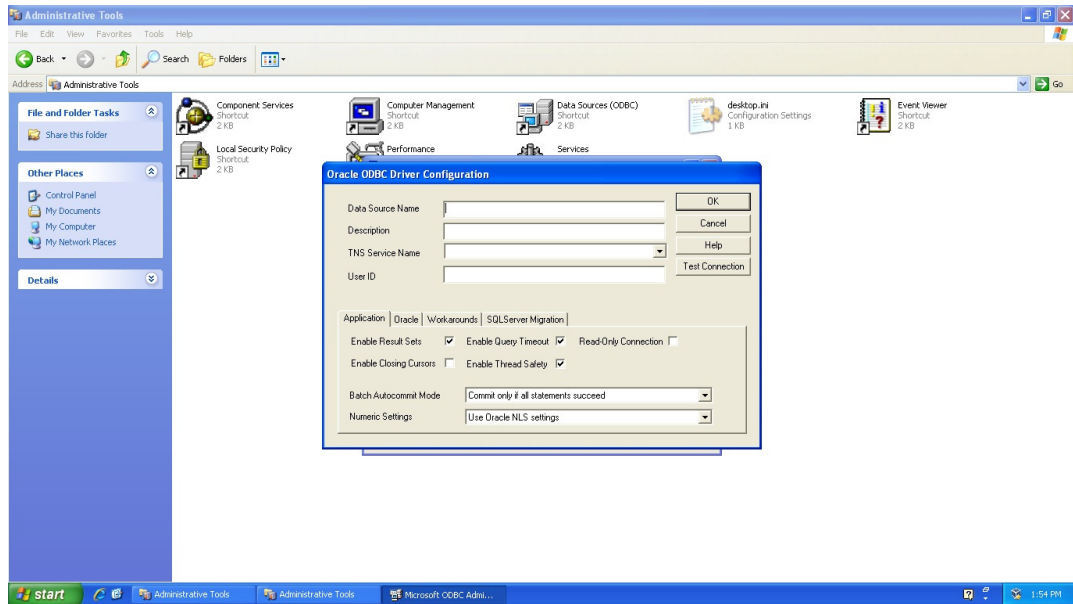


Figura 23 - Inserir ODBC Oracle

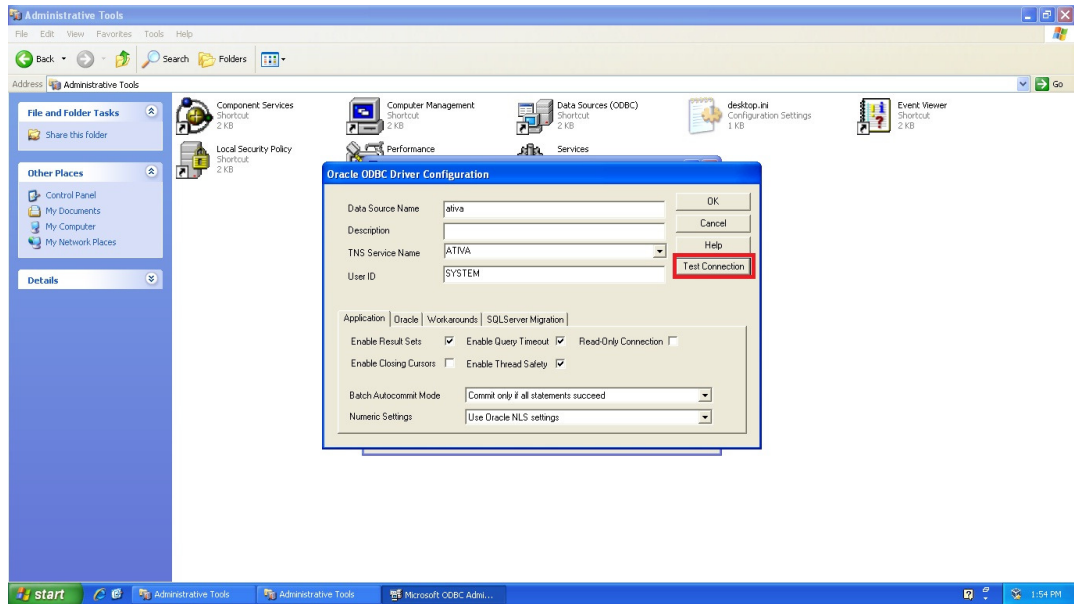


Figura 24 - Inserir ODBC Oracle

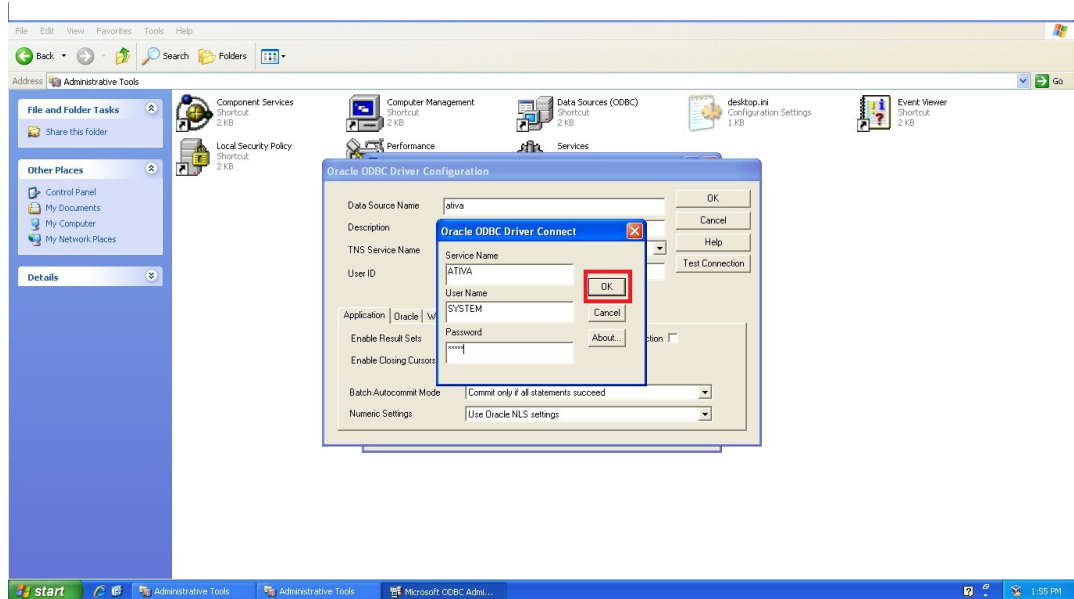


Figura 25 - Inserir ODBC Oracle

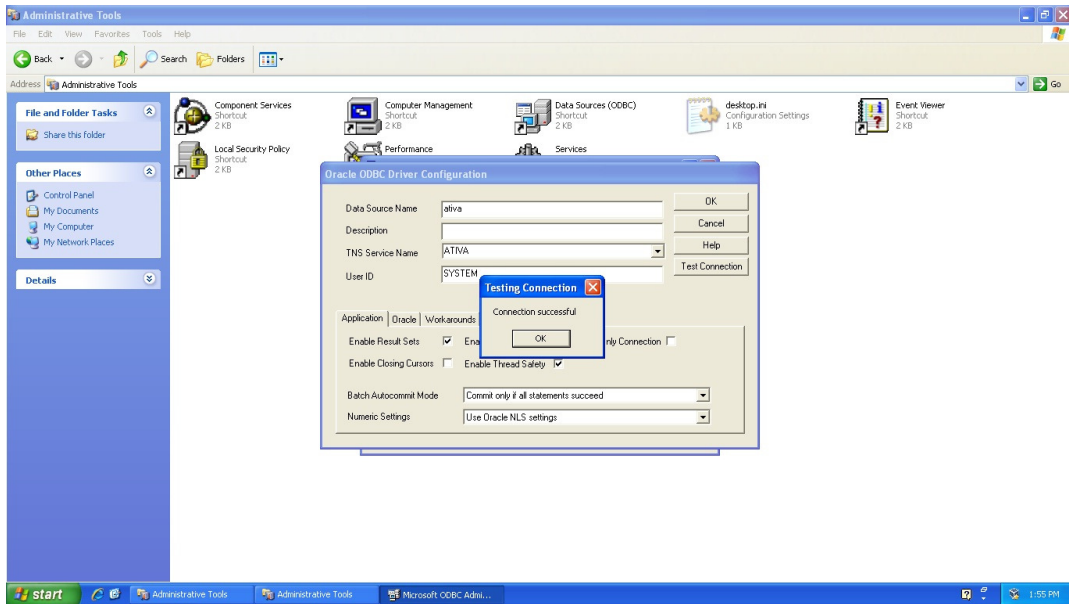


Figura 26 - Inserir ODBC Oracle

9. Execute o SQL Developer para criar suas tabelas:

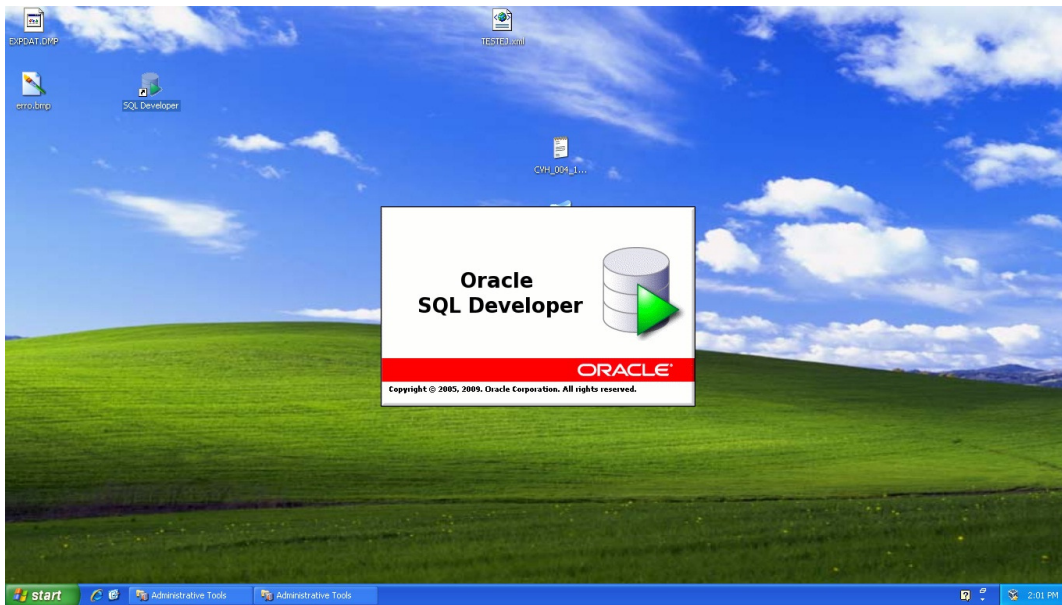


Figura 27

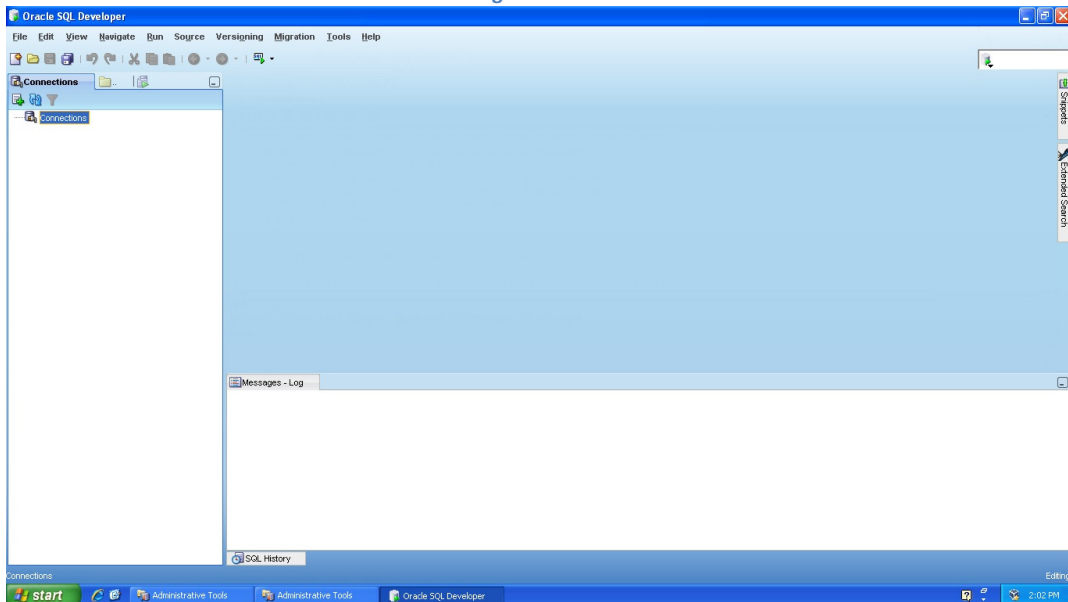


Figura 28

10. Crie uma nova conexão:

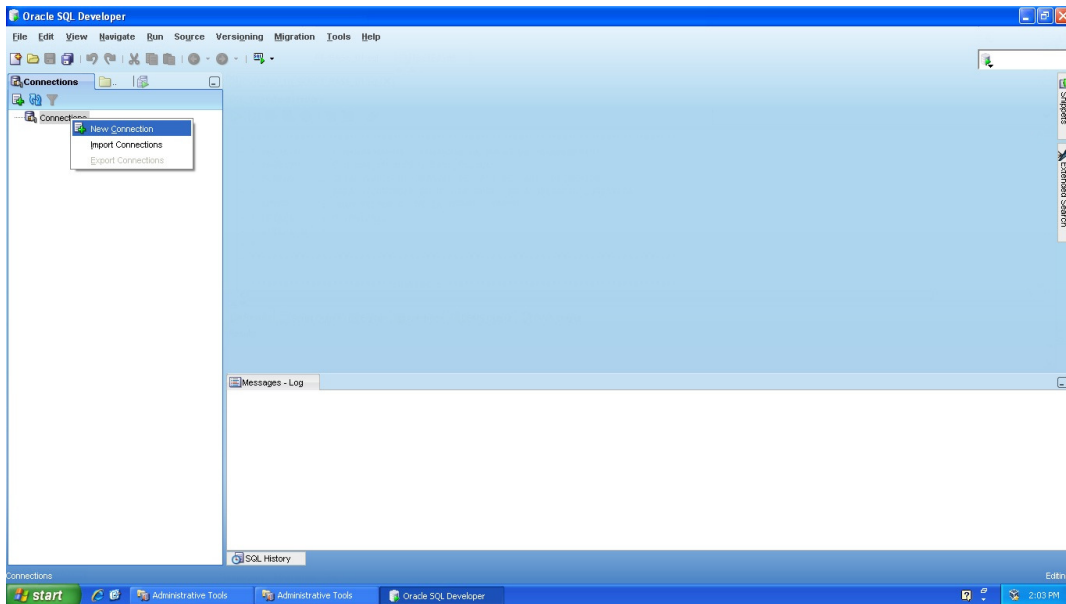


Figura 29 - Criar Nova Conexão

11. Coloque a senha configurada anteriormente:

Connection Name: ativa
Username: SYSTEM
Password: ativa
Service Name: ativa

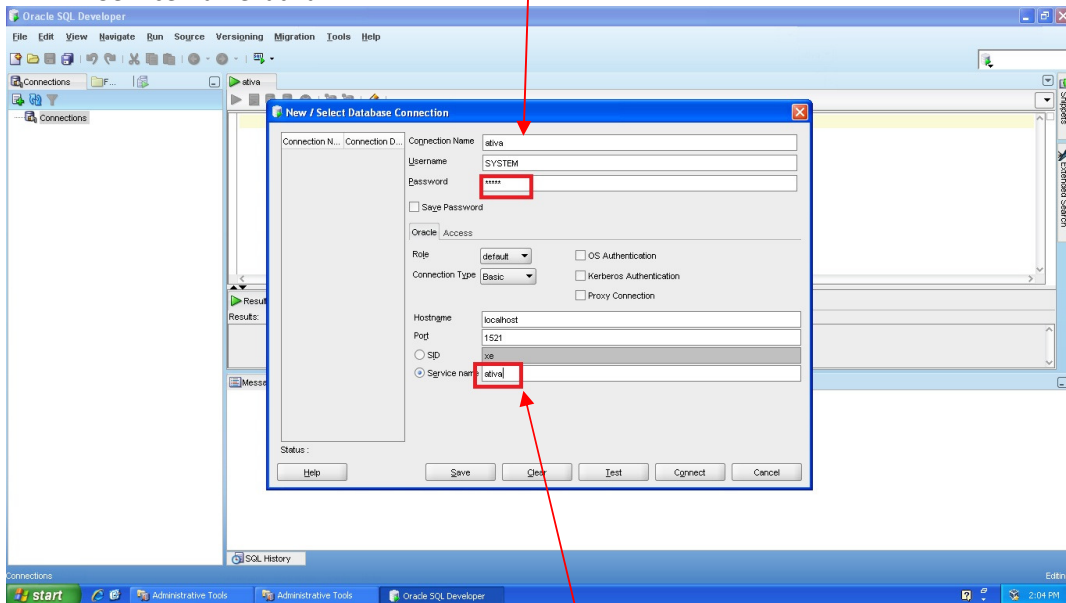


Figura 30

12. E o nome configurado no ODBC do Windows:

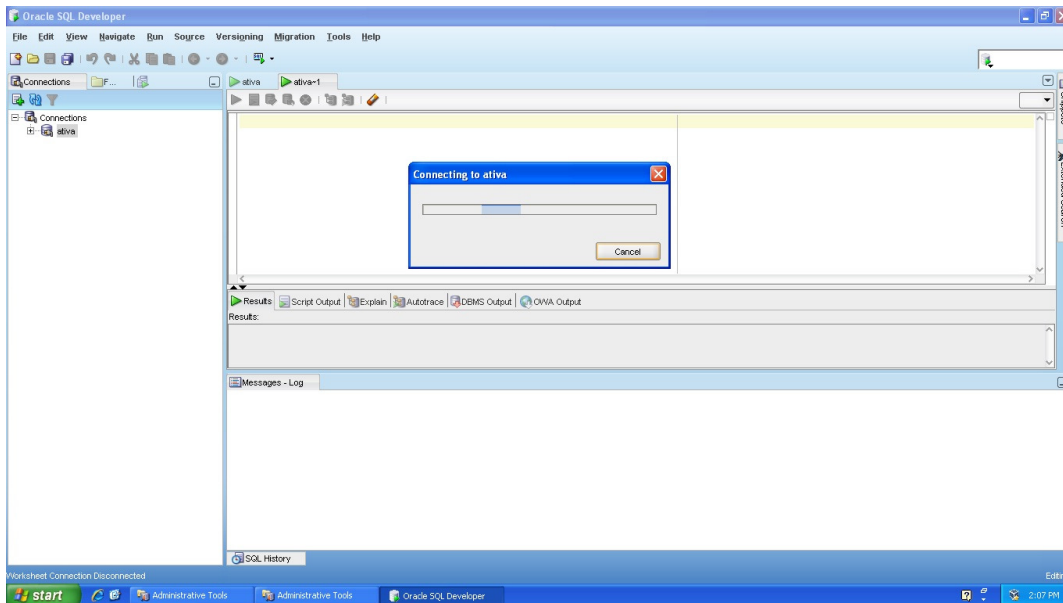


Figura 31 - Estabelecendo conexão com o Banco

13. Insira uma nova tabela:

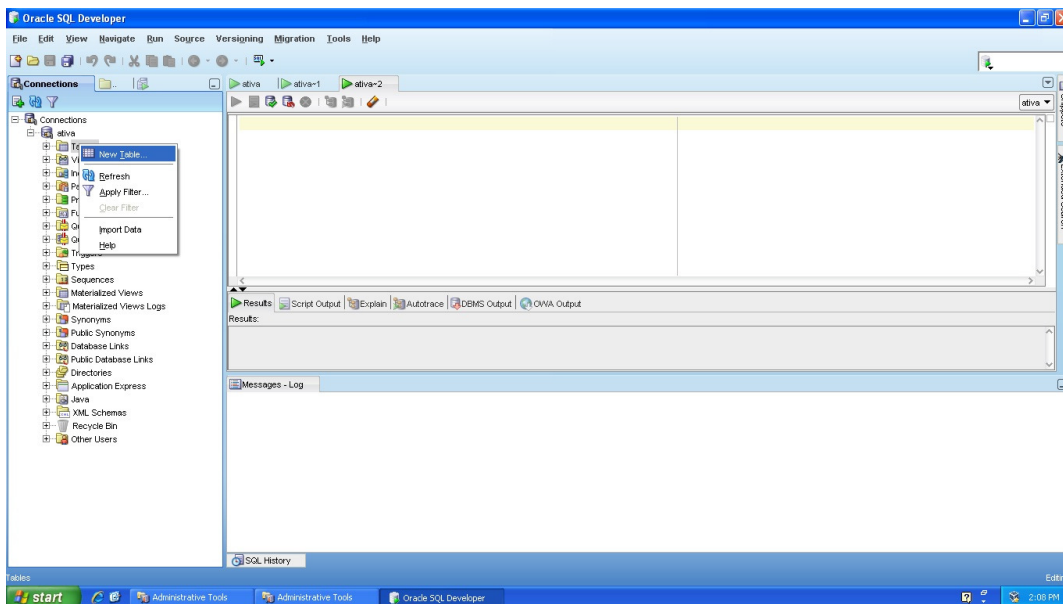


Figura 32 - Inserir Nova tabela

14. Coloque as Informações abaixo:

- Nomes das Colunas : im_ID, im_name, im_major
- Tipo : VARCHAR2

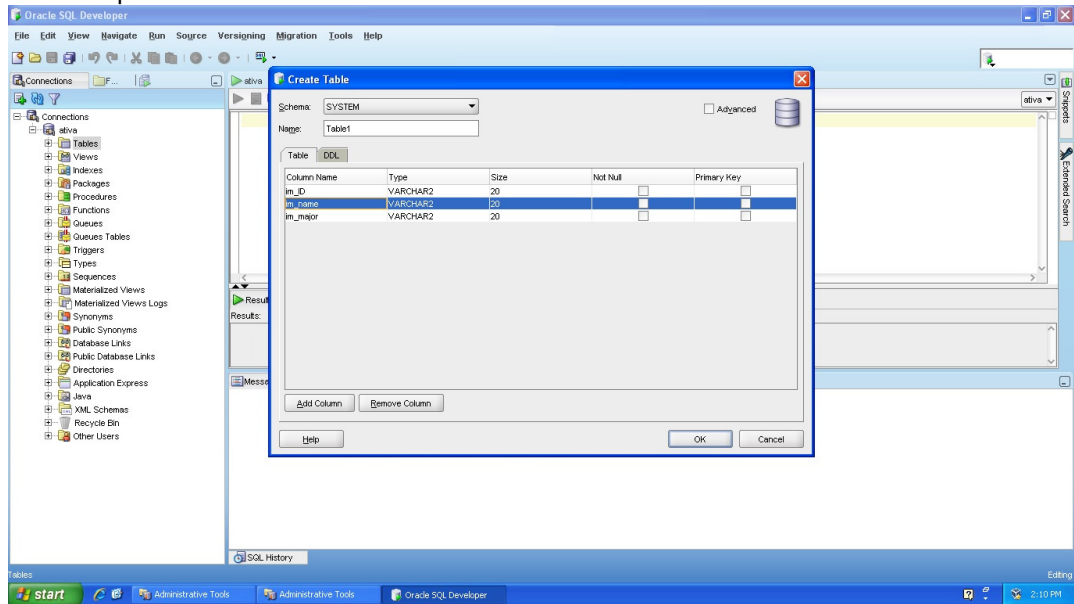


Figura 33

15. Altere os dados para: VARCHAR2(20 CHAR)

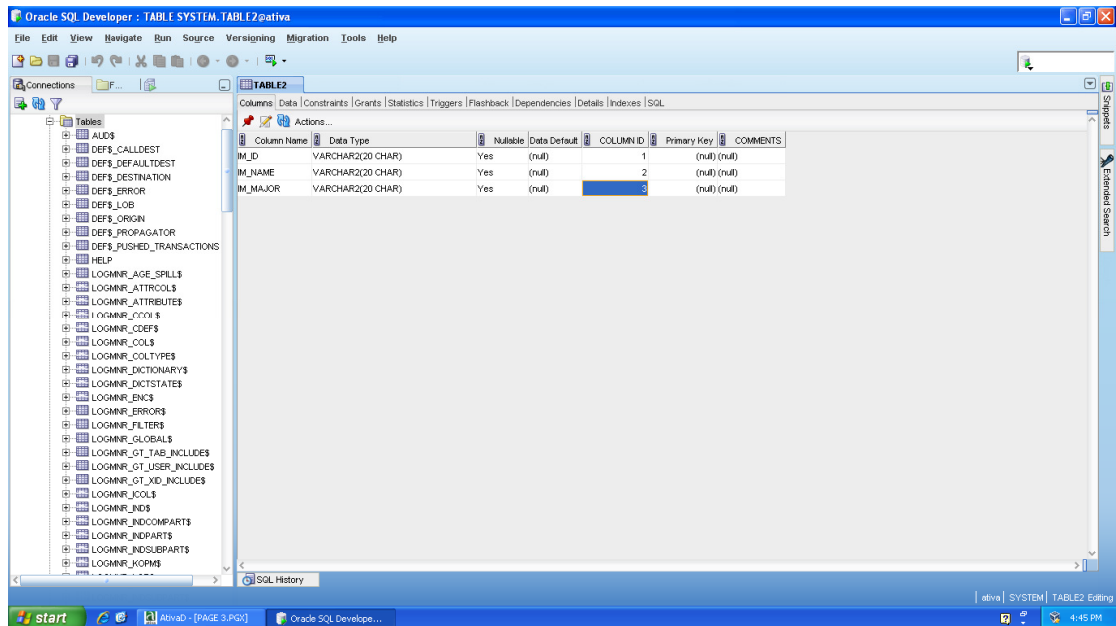


Figura 34

16. Abra "Table1" e insira linhas, em seguida, escreva em im_ID, im_name e im_major como imagens abaixo:

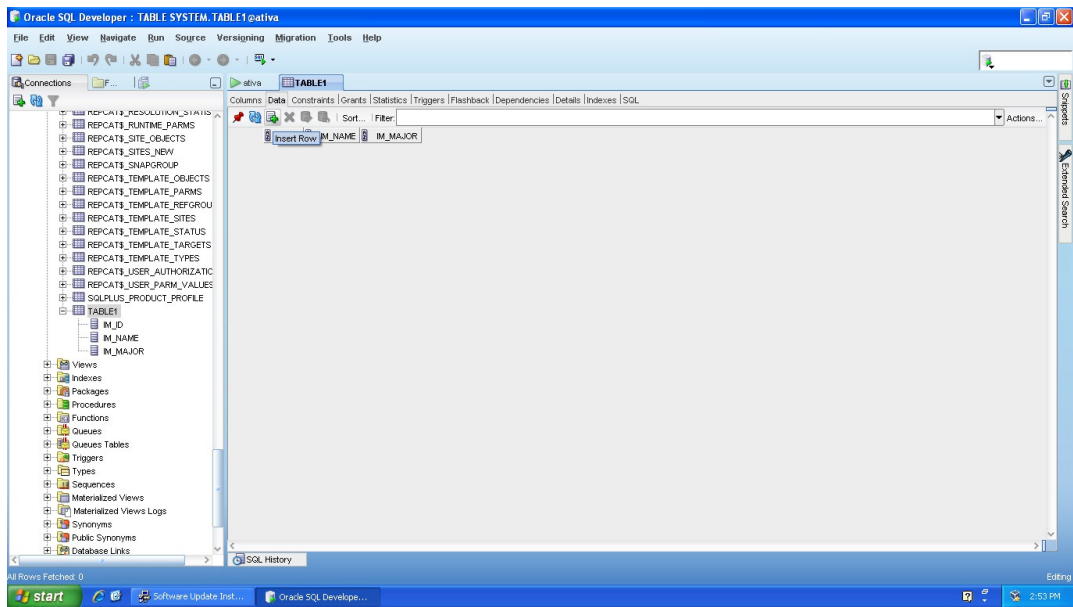


Figura 35

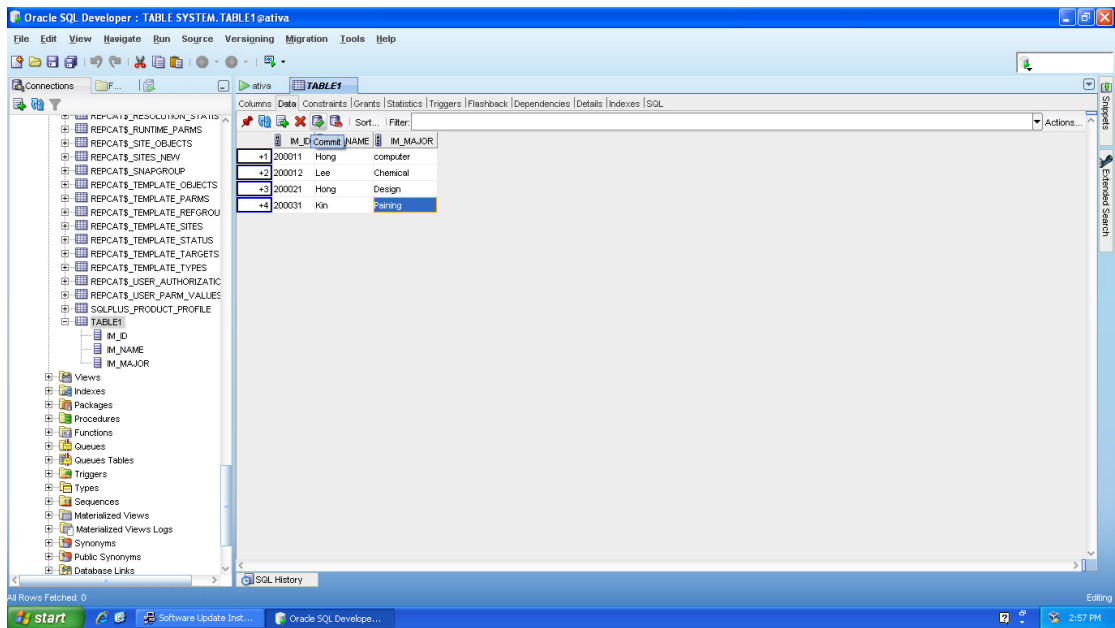


Figura 36

17. Abra o AtivaD, crie tags e configure o ODBC conforme segue:

Tag : ID, IDSEARCH, NAME e MAJOR

Tipe : String

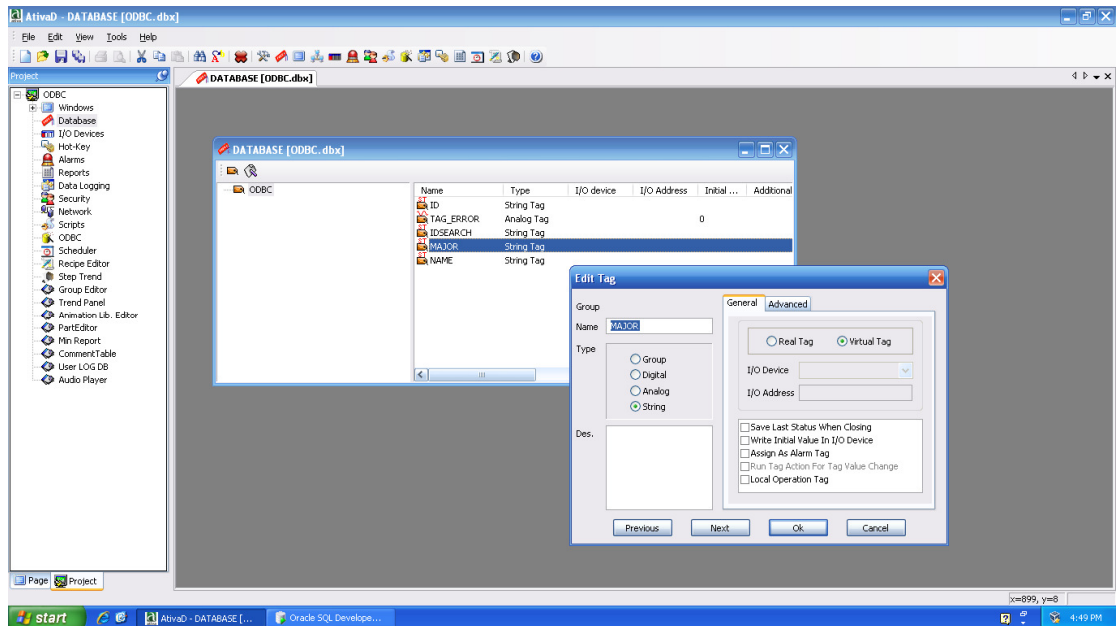


Figura 37

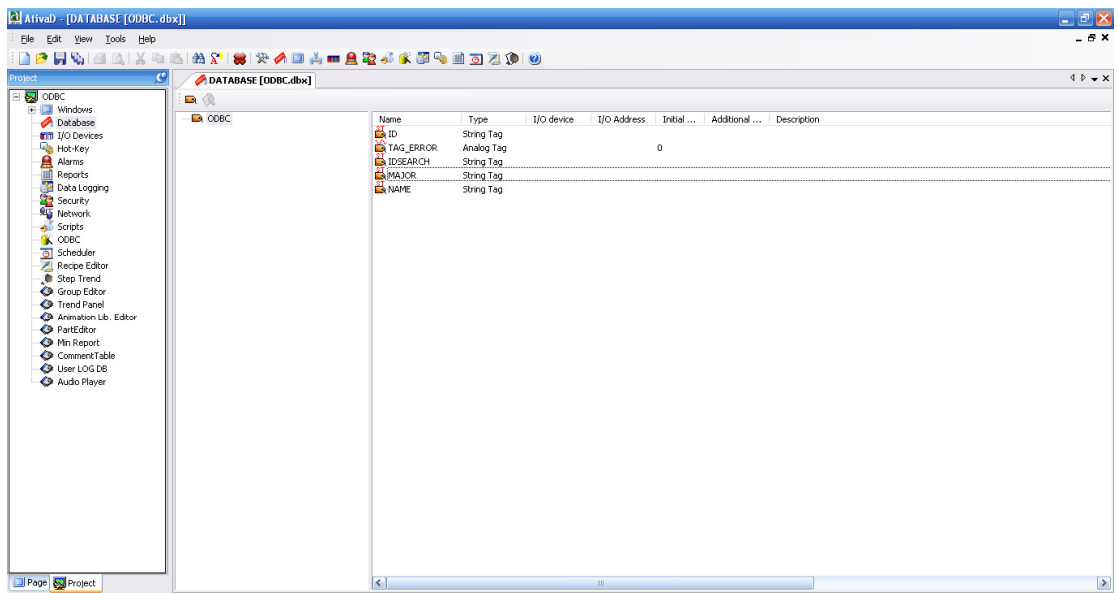


Figura 38

18. Click [Tools] _ [ODBC]

19. Click no ícone [New DBMS] e escreva o nome da conexão criada no ODBC: “ativa”:

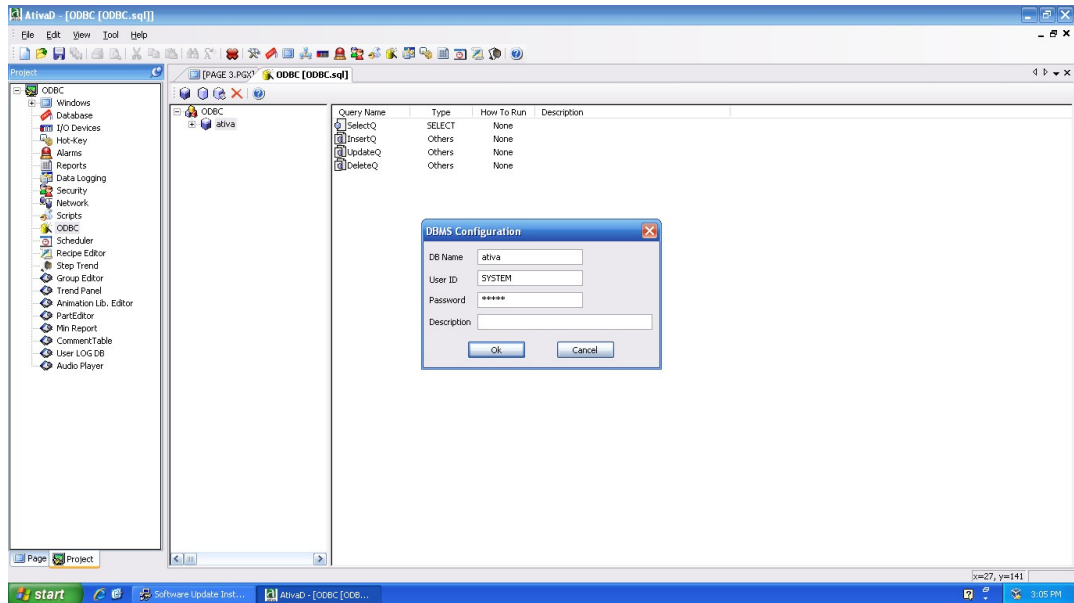


Figura 39

20. Click no ícone [New Query] e configure os seguintes dados:

- Query Name : SelectQ
- Query Type : SELECT Statement
- How to Run Query : Run By Command Function
- Click “Create SQL”

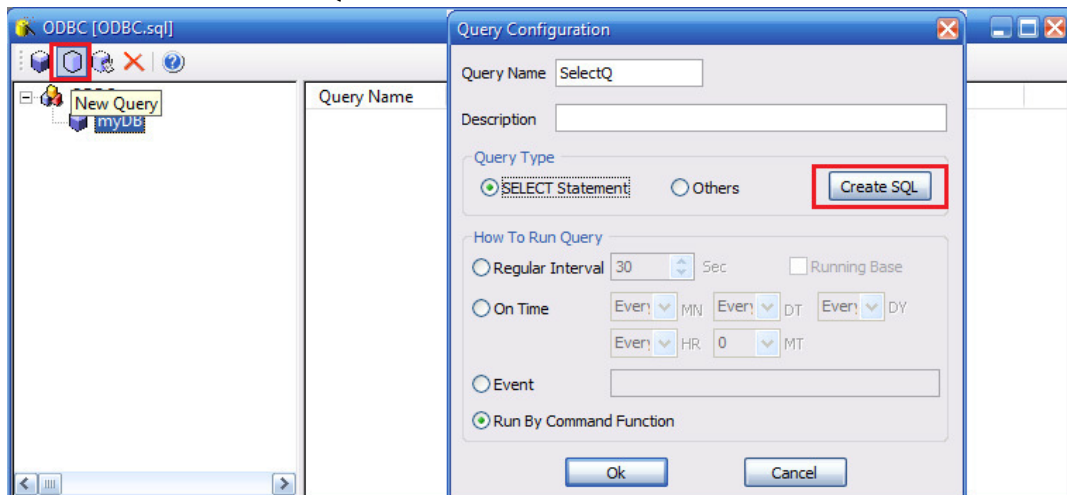


Figura 40

21. Click em [New Field] e registre 3 campos com os nomes, conforme segue:

- Field Name: im_ID
Tag Name: ID
Data Type: LONGVARCHAR
- Field Name: im_name
Tag Name: NAME
Data Type: LONGVARCHAR
- Field Name: im_major
Tag Name: MAJOR
Data Type: LONGVARCHAR

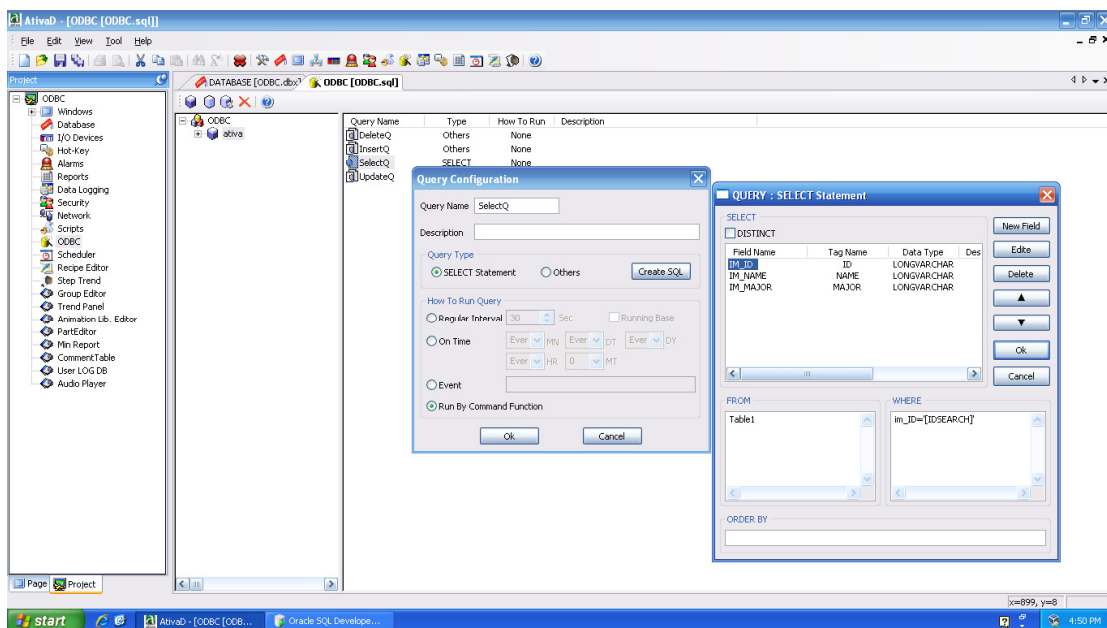


Figura 41

22. Escreva "Table1" em [FROM] e "im_ID='[IDSEARCH]'" em [WHERE]



Figura 42

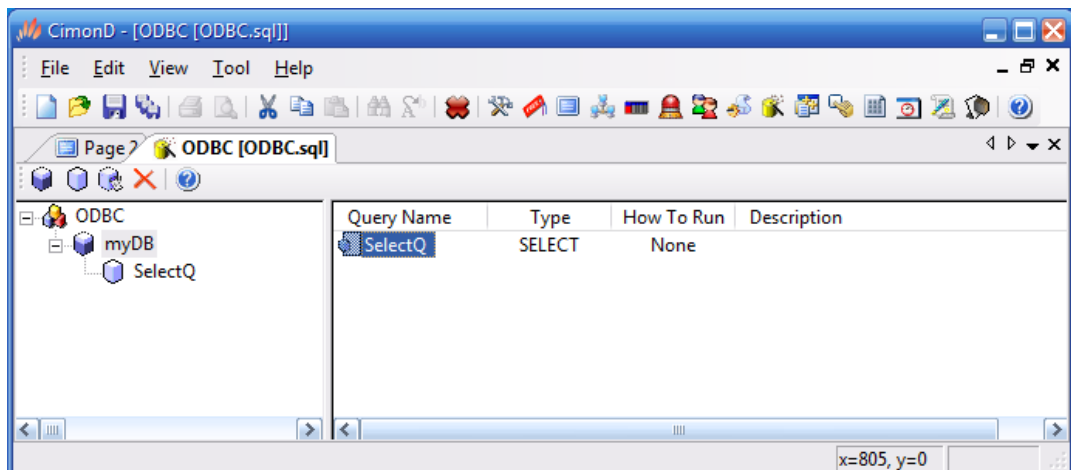


Figura 43 - "SelectQ" em [Nome da Consulta]

23. Click no icone [New Query] e configure:

Query Name : InsertQ

Query Type : Others

How to Run Query : Run By Command Function

_ Click em “Create SQL”

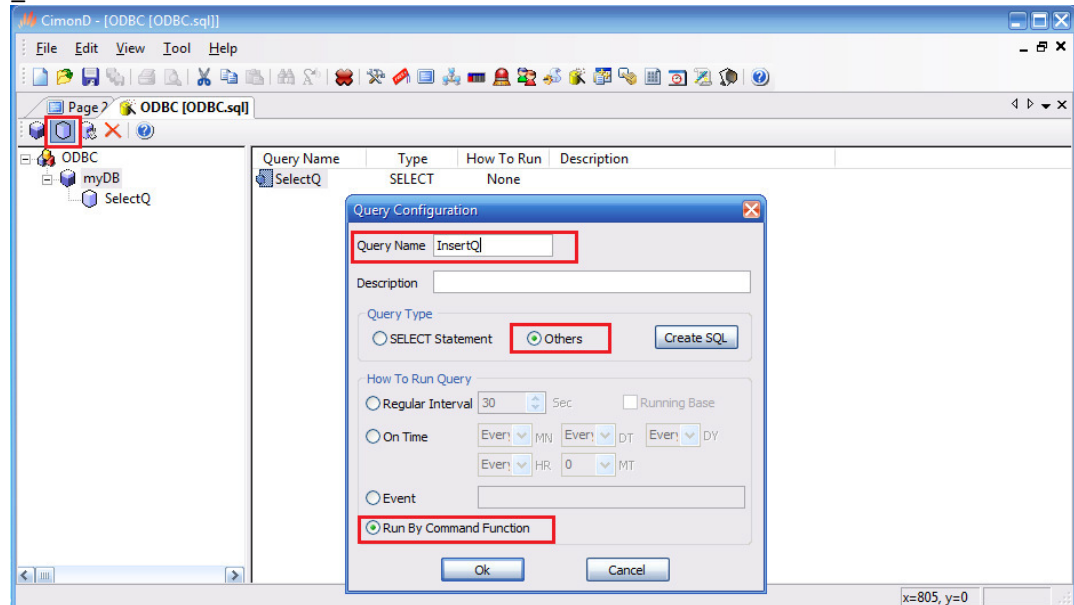


Figura 44

24. Click em [New Field] e registre 3 campos com os nomes, conforme segue:

- Tag Name: ID
Data Type: LONGVARCHAR
- Tag Name: NAME
Data Type: LONGVARCHAR
- Tag Name: MAJOR
Data Type: VARCHAR2

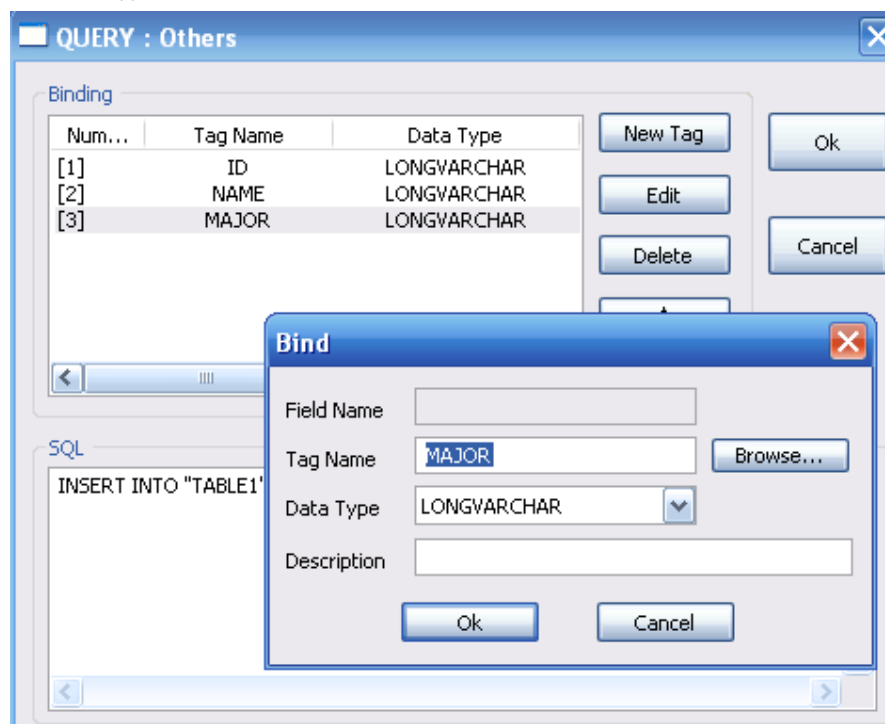


Figura 45

25. Escreva: "Insert Into Table1(im_ID, im_name, im_major) Values('[1]', '[2]', '[3]')" e click em "OK".

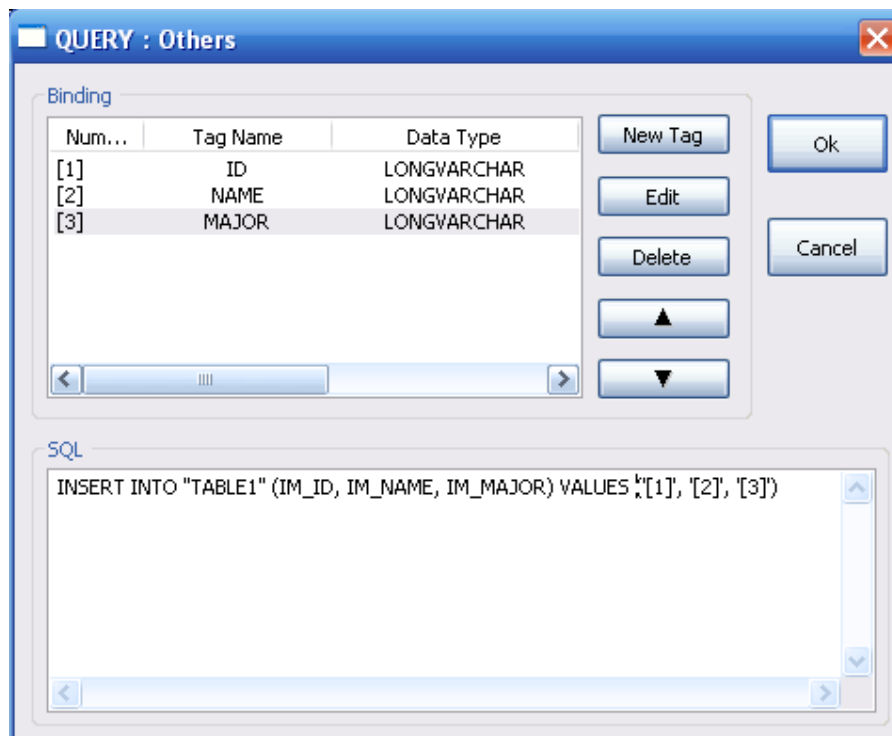


Figura 46

26. Click em [New Query] e configure:

Query Name : UpdateQ
Query Type : Others
How to Run Query : Run By Command Function
_ Click "Create SQL"

27. Click em [New Field] e registre 3 campos com os nomes, conforme segue:

- Tag Name: ID
Data Type: LONGVARCHAR
- Tag Name: NAME
Data Type: LONGVARCHAR
- Tag Name: MAJOR
Data Type: LONGVARCHAR

_ Escreva "Update Table1 Set im_name= '[2]', im_major='[3]', Where m_ID='[1]'" em SQL e click "OK".

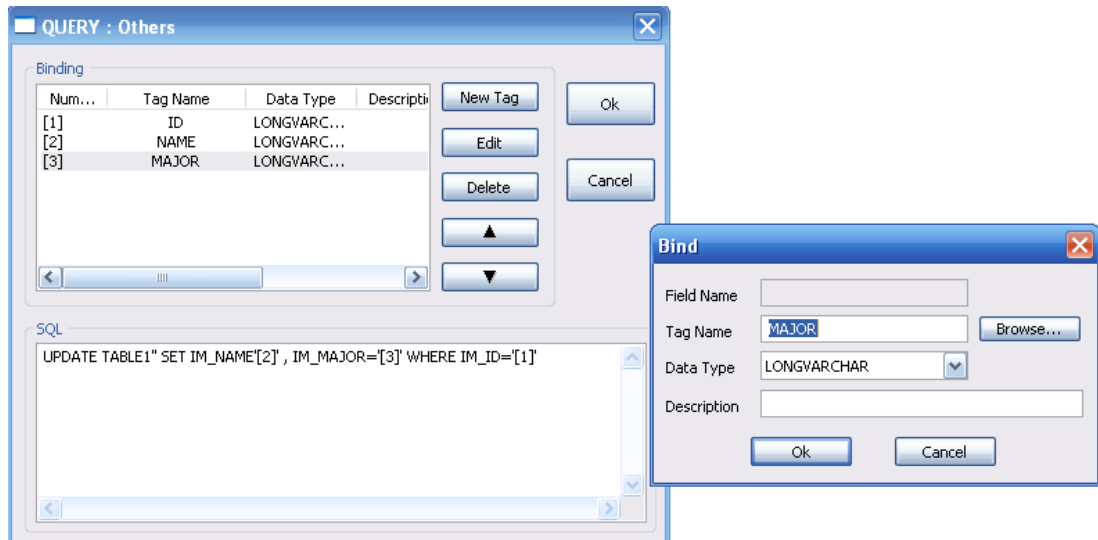


Figura 47

28. Click em [New Query] e configure:

- Query Name : DeleteQ
- Query Type : Others
- How to Run Query : Run By Command Function
- Click "Create SQL"

29. Click em [New Field] o campo com o nome, conforme segue:

Tag Name: ID

Data Type: VARCHAR2

Escreva "Delete From Table1 Where im_ID='[1]'" em SQL e click "OK"

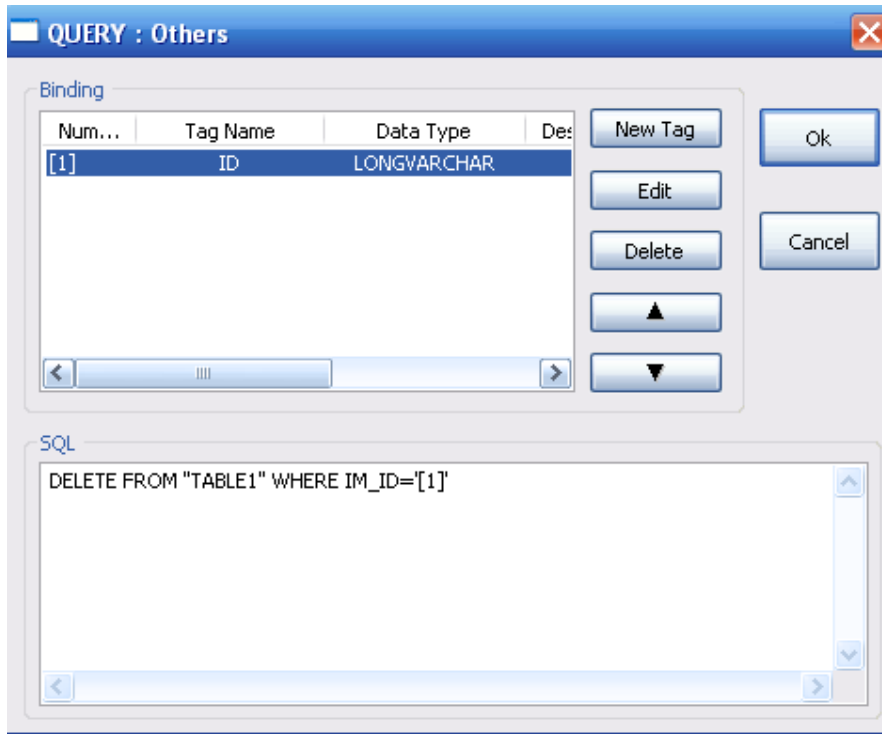


Figura 48

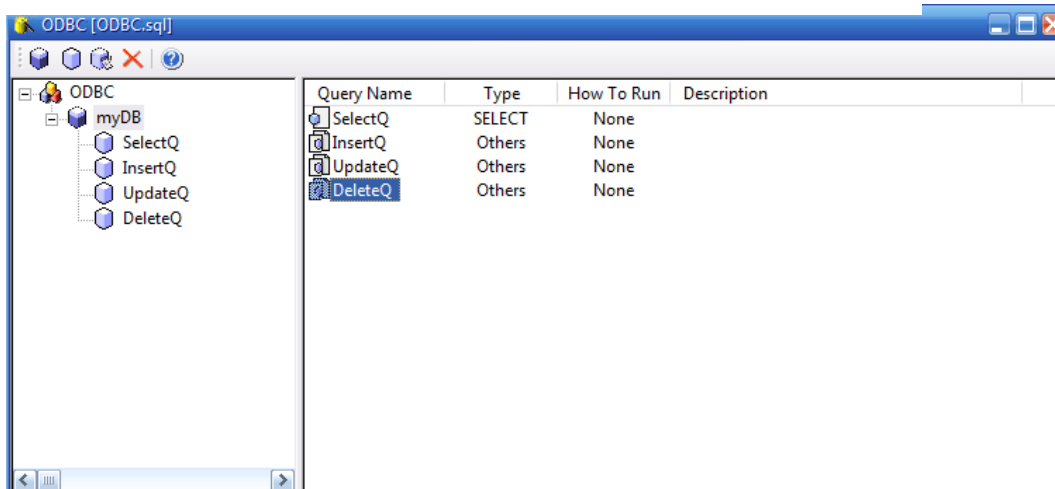


Figura 49 - Comandos configurados

Após a configuração ODBC, crie um Script para executar as funções Select, Insert, Update e Delete.

Click [Tools] [Script] e crie 4 scripts conforme segue:

Select Script;

```
Sub SelectS()  
  CSqlOpen("SelectQ")  
  CSqlClose("SelectQ")
```

End Sub

Insert Script;

```
Sub InsertS()  
  CSqlRun "InsertQ"
```

End Sub

Update Script;

```
Sub UpdateS()  
  CSqlRun "UpdateQ"
```

End Sub

Delete Script;

```
Sub DeleteS()  
  CSqlRun "DeleteQ"
```

End Sub

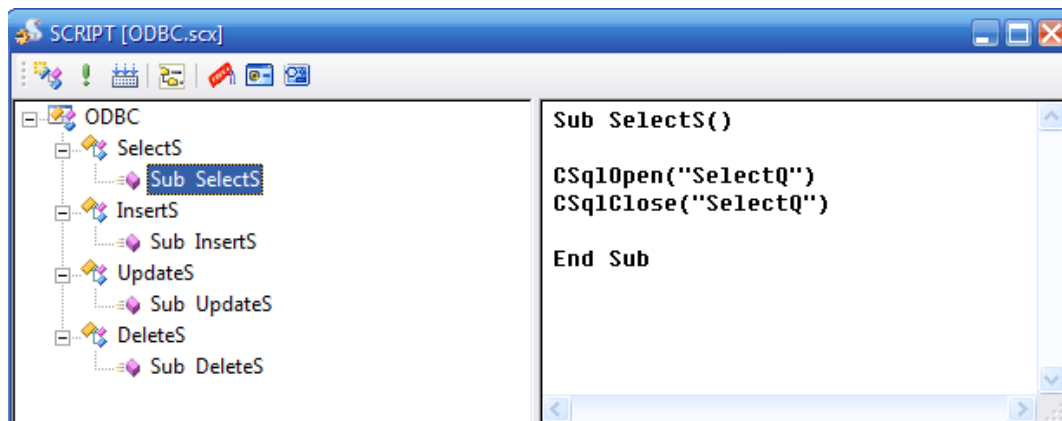


Figura 50

_ Crie 3 dynamic tags : ID, name e major (retangulo vermelho)
Config: EntryData
Action: Text

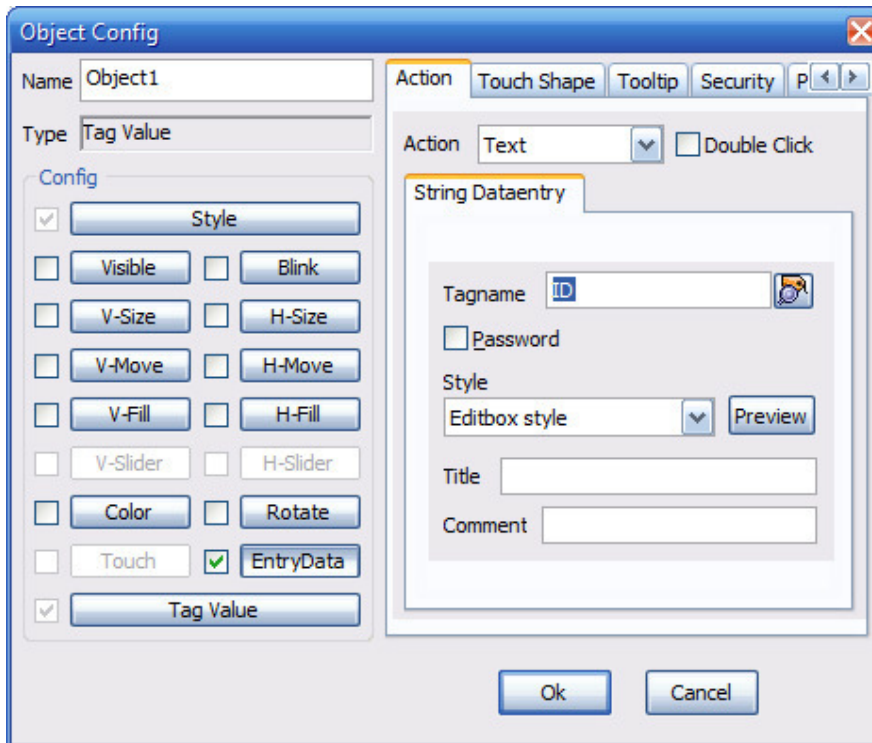


Figura 51

31. _ Crie 1 dynamic tag : IDSEARCH (retangulo amarelo)
Config: EntryData
Action: Text

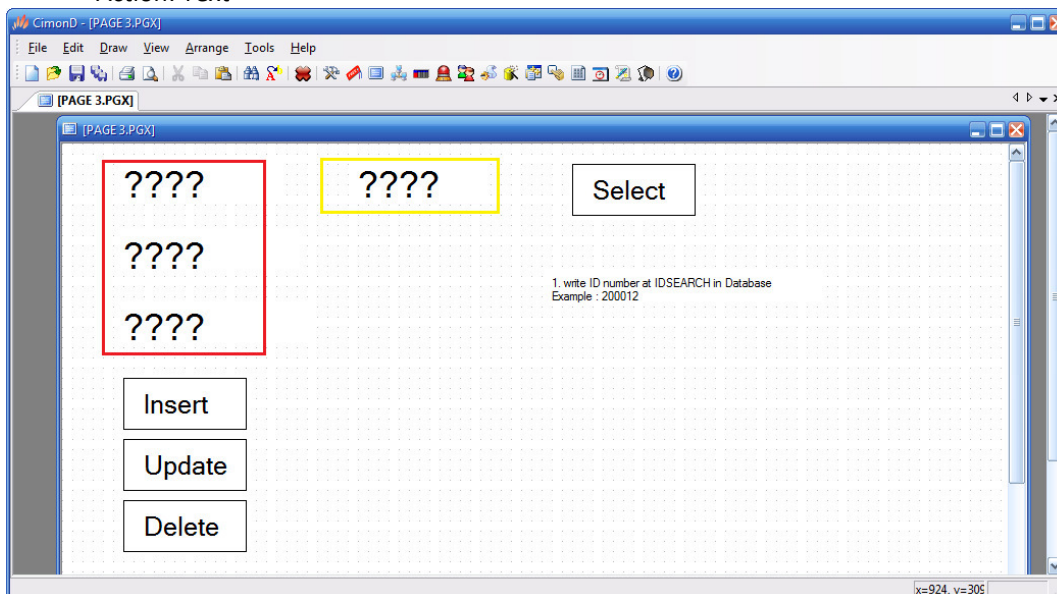


Figura 52

Crie 4 objetos de texto e retângulo : Insert, Update, Delete e Select

Config: Touch

Action: Command Expression

Command Down:

RunScript("InsertS")

RunScript("UpdateS")

RunScript("DeleteS")

RunScript("SelectS")

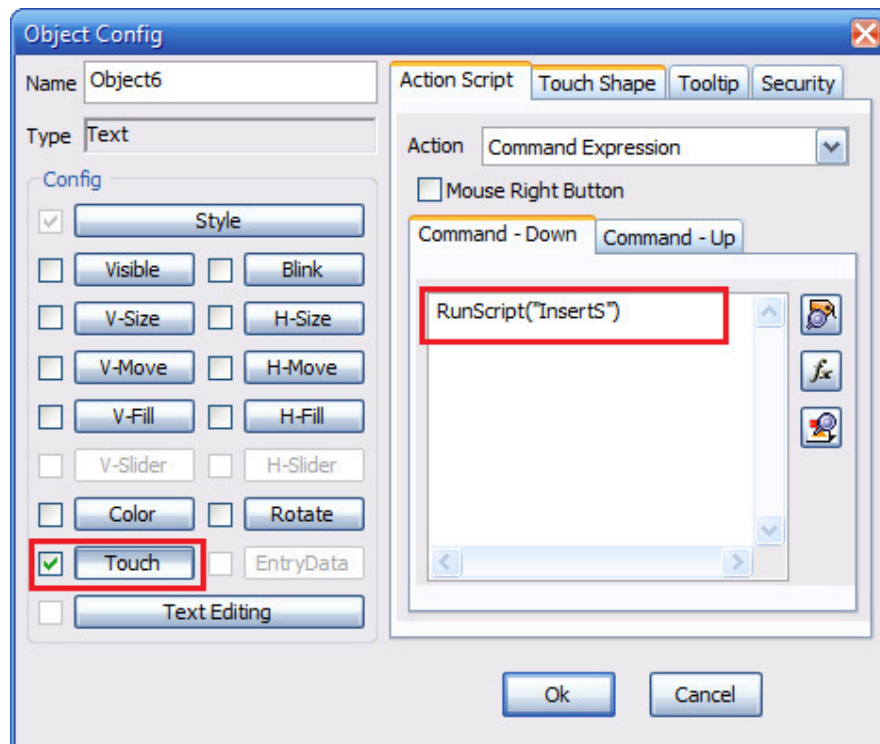


Figura 53

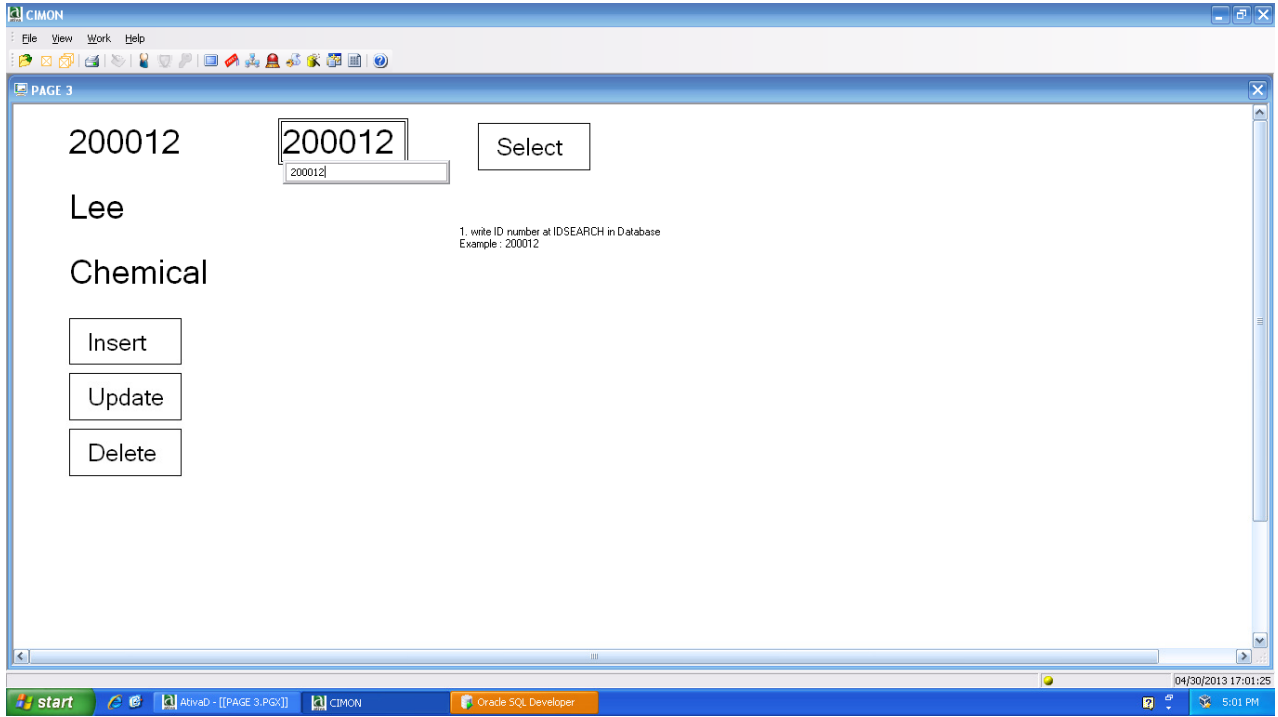


Figura 54