**Day-08**

**19-03-2025**

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**How to Interact with Oracle Database software using GUI:**

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GUI ==> Graphical User Interface

-> Two options:

 1) SQL Developer

 2) Toad

SQL Developer Setup:

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-> To use SQL developer we need to download and install.

-> To download the SQL developer:

 i) open the browser

 ii) search about "SQL developer download"

 iii) click on "SQL developer downloads"

Instead all the above steps, use the below link to navigate into downloads page of "SQL developer".

 "https://www.oracle.com/in/database/sqldeveloper/technologies/download/"

 iv) use this option: "Windows 64-bit with JDK 17 included" for the downloading.

 click on the corresponding link.

 v) Start download

-> After the downloading:

 i) Extract the ZIP folder into normal folder

 Select the downloaded folder

 right click of mouse

 extract all

 ii) After the extraction:

 open the sql developer folder

 run the file "sqldeveloper.exe" by double click on it.

-> After the start of GUI application:

 1) click on create new connection option (+)

 2) Enter "DBA\_ADMIN" as a name

 3) enter "system" as user name

 4) enter "system" as password"

 5) click on "connect"

**Q: Is SQL Interpreter dependent language or Compiler based language?**

Compiler

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Java program

 using notepad

 write the java program

 save notepad file into java file (.java)

 start cmd

 cd to navigate the file location

 javac file-name.java

-> The compiler can translate the whole block of code into object code at a time.

While translation, the compiler can list all the errors which are particular to the corresponding block.

compile(){

 li1;

 li2;

 li3;

}

main(){

 lin1;

 lin2;

 lin3;

 lin4;

}

-> The compiler can execute the code block by block.

Interpreter

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-> The interpreter can execute the code line by line or statement by statement.

SQL Syntax:

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-> To create the table, we can use below syntax:

 create table <table-name>(

 column-name1 datatype,

 column-name2 datatype

 );

-> SQL can execute only one statement at a time.

So, we can say the SQL is an Interpreter dependent language.

**Datatypes in Oracle:**

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-> Datatypes means "in how many ways the data can represent in Oracle database software".

-> Different datatypes:

 1) Number type

 2) Text Type

 3) Date type

 4) Time stamp

 5) Special Datatypes