# DISCOVERER REPORTS



## DISCOVERER ADMIN EDITION:

- **It is one of the editions in discoverer which is used to hide the complexity of database from the business users so that they can have business solutions quickly and accurately.**
- **Here we can setup EUL under which we can maintain multiple business area under every business area we can maintain multiple folders.**

## EUL (End User Layer):

- **It is an intermediatory layer for oracle data base and discoverer. To work with discoverer one EUL is mandatory. At every starting point of time, while entering into discoverer admin edition it will ask you to create EUL.**
- **We can create multiple EUL's from tool➔EUL manager.**
- **We can maintain multiple business area's under any EUL**

## Business area:

- **To categorize the different module report at one place we can create multiple business areas.**
- **Steps to create new business area.**
- **Goto insert➔business area from database➔next**
- **Select user name➔click on next==>**
- **Expand user name➔click on table➔move it to selected area➔next**
- **Next➔give business area name➔finish**

- **Renaming and deleting business areas.**

## Folders:

- **Under business area we can maintain folders like simple folder, custom folder, complex folder**
- **Creation of simple folder:**
    Select the business area➔right click➔new folder from database➔next➔select custom user➔expand it➔move your view to selected area➔finish
- **Creation of custom folder:**
    For one reporting we can use this folder
    Select the business area➔right click➔new custom folder➔enter your select statement➔provide the name➔ ok
    Diff b/w simple and custom is sql symbol
- **Creation of complex folder:**
    We can create complex folder based on multiple simple/custom folders.
    Generally used to create join conditions.

## Folder management:

## Security:

We will give specific business area access to users.
Tools➔security.

## Hierarchies:

- **Discoverer will have two hierarchies**
- **Date hierarchy and item hierarchy**
- **Discoverer will divide the date field into below format: year, quarter, month, day. We can achieve this through simple folder only.**
- **For custom folders we not able to generate hierarchies. To achieve through custom folder we can use extract function to derive quater, year, date, week etc. or else we can use to_date and to_char functions.**

## Item clause:

- **By using item clause, we can display the list of values to the parameters. We can create item clause in discoverer admin edition**
- **Select the folder➔expand it➔select the item➔right click➔new item clause➔next➔next.**
- **Provide the item clause name. ok.**
- **Whenever the lov are retrieving we can approach this method.**
- **If we click on lov it will give this error message.**

"cannot retrieve a list of values from this item, because the query has timed out. To change the time out value. Select options under tool menu, then use the query governor tab."

**Note:**

If we change the time also. No accurate result. Other way is create one separate folder based on the distincted values. Create item clause on top of it. Goto original folder➜select the column➜right click➜attach the item clause.

**DISCOVERER DESKTOP EDITION:**

**Tools:**
1. Conditions
2. Sort
3. Totals
   a. Subtotal:
      Check the check box of "subtotal at each change in"
      Select the column
      Change the label to subtotal
      Here you can insert item name also to change dynamic title
      Ok
   b. Grand total:
      Check the check box of "grand total at the bottom"
4. Percentage
5. Calculations (like a formula column)
6. Parameters

**Format:**
Select on the data to which you want to change format
Right click➜format data or format heading

**Group sort:**
To avoid repetition values in particular column we can use this feature. We can display one single time.
Select column name➜right click➜group sort.

**Sheet**
Sheet➜ Edit title➜you can insert page nos, date, time, work book title etc.,

**Format**

    Exceptions (like conditional fromatting)

**Multiple work sheets:**

    We can create multiple work sheets in the same workbooks these work sheets may be created on same folders from same business area or other business area or other folder from other business area or same business area.

Sheet➜new sheet

To modify: goto sheet➜edit sheet.

**Item class:**

    We already discussed in the admin edition.

**Sql inspector:**

    Desktop edition

    Goto view➜sql inspector

    We can find the query

**Scheduling:**

    Whenever the report is taking much time to execute we can use this option

    File➜schedule

    Select the workbook and mention time, date and frequency

    We can also manage the scheduling by using scheduling manager

    File➜manage workbooks➜schedule manager

**Export:**

    We can export the entire o/p into excel sheet by using 'X' symbol in the tool bar. But with this we can export the result from one work sheet.

    To export all the work sheet from the work book

    Goto file➜export➜choose the no.of work sheets➜ok.

**Sharing:**

    Goto file➜manage work book➜sharing➜select available users or responsibility

    Move it to shared area. Click on ok.

**Creation of work book by using page detail:**

    To see the grouped result without passing the parameters, we can use the approach.

    Click on new work book➜select page detail table➜select the business area➜select

The columns finish
Drag and drop the required columns into pages item section
It is also useful to compare tabular style.

**Creation of work book by using cross tab:**
It is also called drill down approach
With this approach we can see the hierarchical representation of data.
Click on new work book➔select the cross tab➔choose the business area and its
folder➔ select column names➔ finish.

Drag and drop the columns at the left hand side other than data points
To hide the columns name from the o/p, we use the collapse feature.
Right click on the column name, collapse.

To introduce the column name again, we can use the drill feature.
Select the column name drill-drill to select item.
Select the column name click on ok.

**QUERIES:**

1. **What is discoverer? How to create discoverer reports?**
   a. **Discoverer is reporting tool which is used to display records**
      **Version: 4i, 6i, 9i, 10g, 11g**
      **Discoverer editions: admin, desktop, viewer, plus**
2. **What is item class?**
      a. **By using item clause, we can display the list of values to the parameters. We can
         create item clause in discoverer admin edition**
         **Select the folder➔expand it➔select the item➔right click➔new item
         clause➔next➔next.**
         **Provide the item clause name**
         **Ok.**
3. **Discoverer base tables?**
      a.
4. **What is business area?**
      a. **To categorize the different module report at one place we can create multiple
         business area**
5. **How to create parameter in discoverer?**
      a. **To create parameter in discoverer**
         **Goto tools➔parameters➔click on new**

**Provide prompt, name, description.**

6. **How many types of folders in discoverer?**
   a. **Under business area we can maintain folders like simple folder, custom folder, complex folder**
   b. **Creation of simple folder:**
      **Select the business area➜right click➜new folder from database➜next➜select custom user**
   c. **Creation of custom folder:**
      **For one reporting we can use this folder**
      **Select the business area➜right click➜new custom folder➜enter your select statement➜provide the name➜ ok**
      **Diff b/w simple and custom is sql symbol**
   d. **Creation of complex folder:**
      **We can create complex folder based on multiple simple/custom folders**

7. **What is query governor in discoverer?**
   **Query governer:**
   **The Query Governor options help you set limits on the amount of time a query should take to complete. Use these options to limit the time you wait for Discoverer to run a query. The options set time and size limits on data as it is being retrieved from the database.**
   **Warn me if predicted time exceeds:**
   **When requesting data for a worksheet, Discoverer estimates the time required to complete the query. Select this option if you want a message to warn that the query will take a long time to complete. The message appears only if the estimated completion time exceeds the period you specify, in MM:SS format, for this option.**
   **Prevent queries from running longer than:**
   **Select this option to limit the time a query runs before it is cancelled. A warning message informs you if the query exceeds the set time, then Discoverer cancels the query. Normally, this option is selected if server performance is an issue because long running queries might affect server performance.**
   **Limit retrieved query data to:**
   **This option sets the maximum number of rows to retrieve for a query. If the database contains more than that number of rows for the query, a message informs you that not all data is retrieved and, consequently, the displayed data might not be complete.**
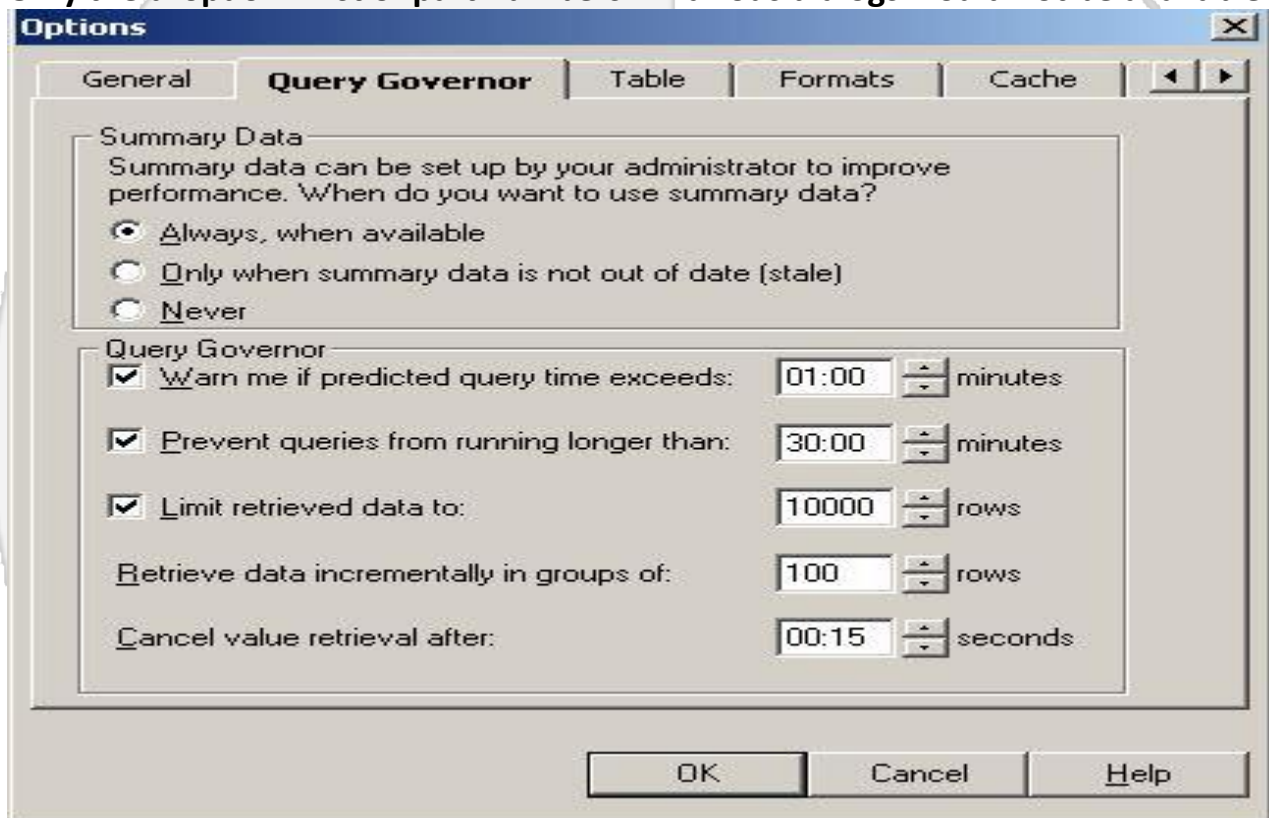   **Retrieve data incrementally in group of:**
   **Set this option when the database contains large tables with many rows that might take a long time to retrieve. With an entry made here Discoverer retrieves rows of data in increments rather than all at the same time. The smaller the number of rows to retrieve as a group, the faster the initial retrieval. The default size of the data group**

is 100 rows, which equates to the first 10 pages of data at 10 rows per page. You can set the number of rows per page under the Worksheets heading options.

**Cancel list of values retrieval after:**

Some large lists of values take a long time to retrieve from the database, such as a list of 20,000 part numbers. If you don't want to wait for Discoverer to retrieve these larger lists of values, enter the amount of time for Discoverer to retrieve lists before canceling. This option does not cancel Discoverer's retrieval of the actual data for a query. In the case of the part numbers, for example, all the data about the parts in stock, price per part, sales figures and so on, is displayed in the appropriate tables. Only the dropdown list of part numbers in various dialogs would not be available



**Question:** In Discoverer, I get the error "Not all rows have been retrieved. Data may be inaccurate". What can I do to remove this error?

**Answer:** To remove this error you must turn off the Discoverer query governor. For this you have two options, turn off the query governor to allow larger queries system wide or you can turn it off for just one query.

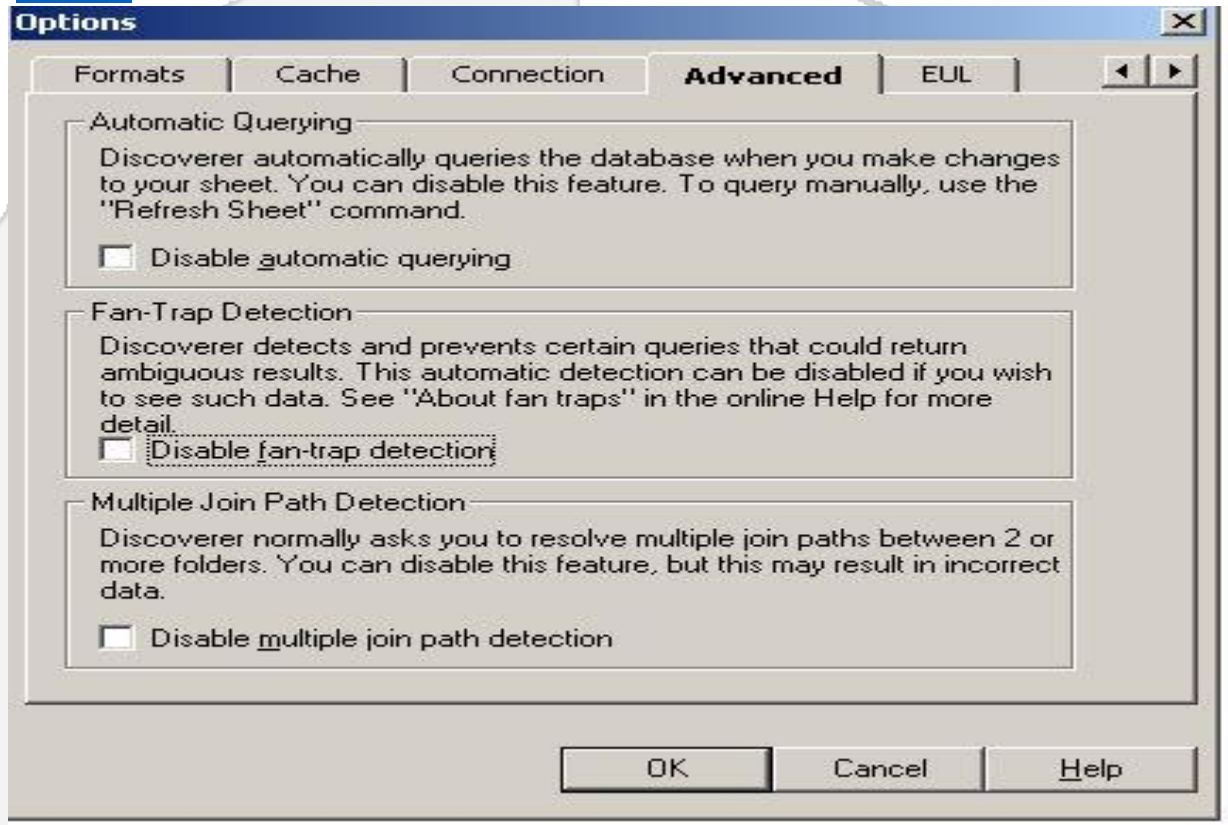To change the Discoverer default to allow larger queries system wide:

**Tools->Options->Query Governor**

**To turn off the query governor for just this one query, or to get all rows for particular Discoverer workbook:**

**Tools->Retrieve all rows**

## 8. What is fan trap in discoverer?
   a. See pdf



## 9. Discoverer registration steps
The following are the steps to **register a discoverer report in Oracle Apps**. Make sure you followed each and every one correctly.

1. Login to Application Developer-->Function

2. Enter Function , User Function Name, Description(Optional) in Description Tab.

E.g
- Function: TEST_DISCO
- User Function Name: Discoverer Report
- Description: Discoverer Report

3. In Properties Tab
- Select Type "SSWA plsql function"
- Maintenance Mode Support – None
- Context Dependence – Responsibility

4. In Form Tab
Parameters --> Enter the Workbook name created previously

E.g
- workbook=TEST_WORKBOOK
- In case you want to give some parameters then you can use:
  workbook=<workbook_name>&parameters=<Parameter_name1>
  ~<value1>*<Parameter_name2>~<value2>*<Parameter _name3>~<value3>*

**Example**
workbook=<workbook_name>&Parameters=age~26*salary~ 1000*
5. In Web HTML Tab

Enter HTML Call - OracleOasis.RunDiscoverer

6. Now you can add this Function in any existing or new Menu

Also Note that Discoverer Report cannot be invoked when you've direct login into Oracle Applications through http://<url>:<port number>/dev60cgi/f60cgi
You need to access through logging in from the browser web page. Otherwise it will give an Error.

7. Now navigate to Responsibility which contain the Menu to which you added this function.

8. Click the Function Name to Display the report.

**10. What is EUL? Significance of EUL?**

    **a. End user layer:**

        **i. It is an intermediatory layer for oracle data base and discoverer. To work with discoverer one EUL is mandatory. At every starting point of time, while entering into discoverer admin edition it will ask you to create EUL.**

        **ii. We can create multiple EUL's from tool➔EUL manager.**

        **iii. We can maintain multiple business area's under any EUL**

**11. If discoverer takes too much time what is your approach?**

    **a. We use scheduling feature**

**12. Diff b/w cross validation and security rules?**