

INTRODUCTION TO MASTER-DETAIL REPORT USING ELEMENT LINK:

- When you create a **master-detail report**, you often need to combine data from two or more queries (e.g., an order and its line items). The **Element Link** allows you to link these queries by specifying the relationship between elements in the master query and those in the detail query.
- For example, in an order report, the **master query** might retrieve general order information, while the **detail query** retrieves the line items for each order. The **Element Link** ensures that each order is displayed with its respective line items in the report.

**Element Link** is used to establish a **master-detail relationship** between different queries within a report, it works like join.

| Key Differences Between Element Link and Group Link: |  |  |
|--|--|--|
| Feature  | Element Link   | Group Link   |
| Primary Use  | Links <b>two different data sets (queries)</b> together (master-detail).                         | Groups rows <b>within a single query</b> based on a shared field.                            |
| Data Relationship                                    | <b>Master-detail</b> or <b>one-to-many</b> relationship (e.g., one order with many order items). | <b>Grouping</b> rows by a common attribute (e.g., group sales by <code>customer_id</code> ). |
| Query Involvement                                    | Involves <b>two queries</b> with common fields to link them (e.g., <code>order_id</code> ).      | Operates within a <b>single query</b> , grouping rows based on specific field values.        |
| Typical Use Case                                     | Used when you need to display <b>related data</b> (e.g., order items for each order).            | Used when you want to <b>organize data</b> by groups (e.g., sales by customer).              |
| Output Structure                                     | Results in <b>master-detail output</b> , where detail rows are displayed under each master row.  | Results in <b>grouped data</b> , where rows with the same field values are shown together.   |

- **Element Link** is used to establish a **master-detail relationship** between two different queries based on common fields (e.g., `order_id` in the master and detail queries).
- **Group Link** is used to **group data** within a single query based on common values of a field (e.g., grouping rows by `customer_id` ).

## CREATING MASTER-DETAIL REPORT USING ELEMENT LINK:

### 1. CREATE DATA SET:

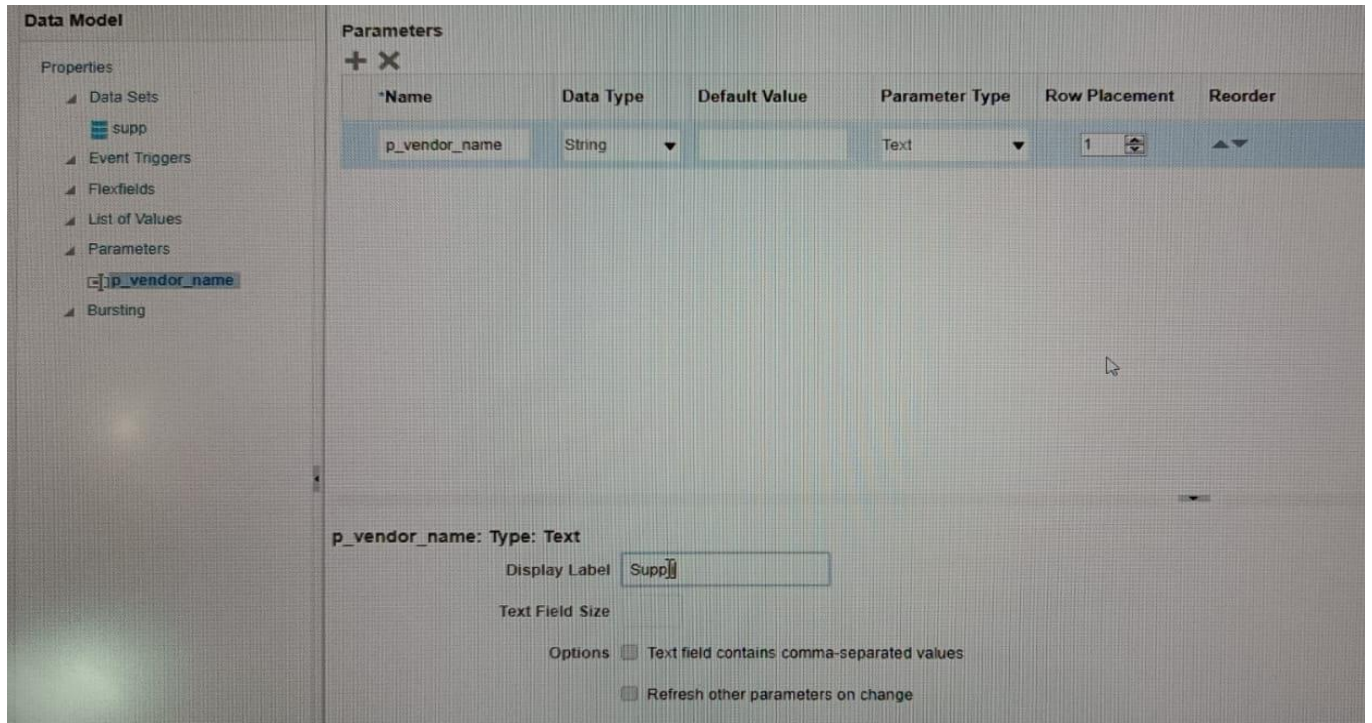
The screenshot shows the 'New Data Set - SQL Query' dialog box. It has a title bar with a question mark and a close button. The dialog contains the following fields:

- \* Name: supp
- \* Data Source: ApplicationDB\_FSCM (with a refresh icon)
- \* Type of SQL: Standard SQL (with a dropdown arrow)
- \* SQL Query: A text area containing the following SQL query:

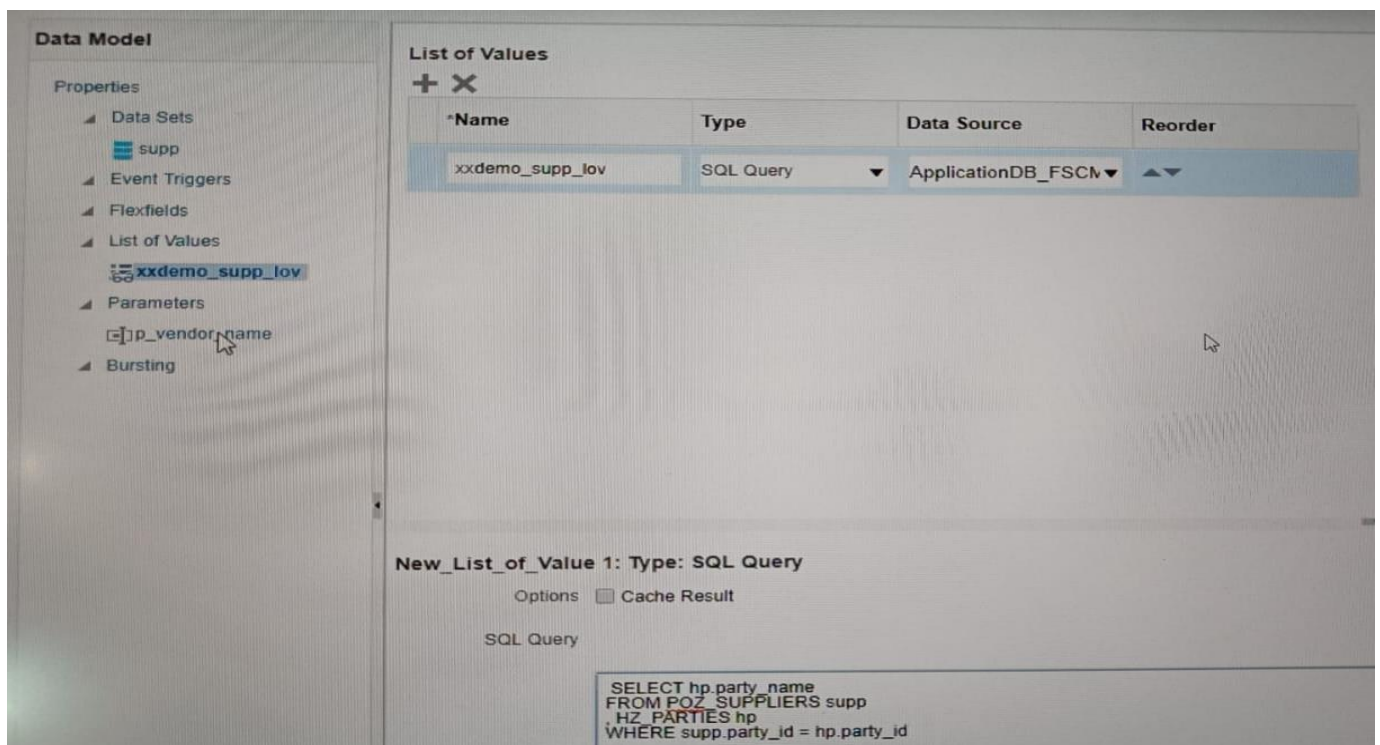
```
SELECT supp.vendor_id  
      , supp.vendor_type_lookup_code  
      , hp.party_name  
FROM POZ_SUPPLIERS supp  
      , HZ PARTIES hp  
WHERE supp.party_id = hp.party_id  
AND hp.party_name = 'p_vendor_name'
```
- Query Builder: A button to the right of the SQL query text area.
- Buttons at the bottom: Generate Explain Plan (with a refresh icon), Cancel.

The screenshot shows the 'Add Parameter - supp' dialog box, which is a sub-dialog of the previous one. It has a title bar with a close button. The dialog contains the following elements:

- Global Level Functions: A section with a gear icon and a text box that says 'drop here for aggregate function'.
- Parameters List: A list of parameters with checkboxes and icons:
  - VENDOR\_ID: checked, with a refresh icon.
  - VENDOR\_TYPE\_LOOKUP\_CODE: unchecked, with a refresh icon.
  - PAF: unchecked, with a refresh icon.
- Text: 'Please select one or more bind variables to create corresponding parameters'.
- Selected Parameter: A checkbox next to 'p\_vendor\_name' is checked.
- Buttons at the bottom: OK, Cancel.

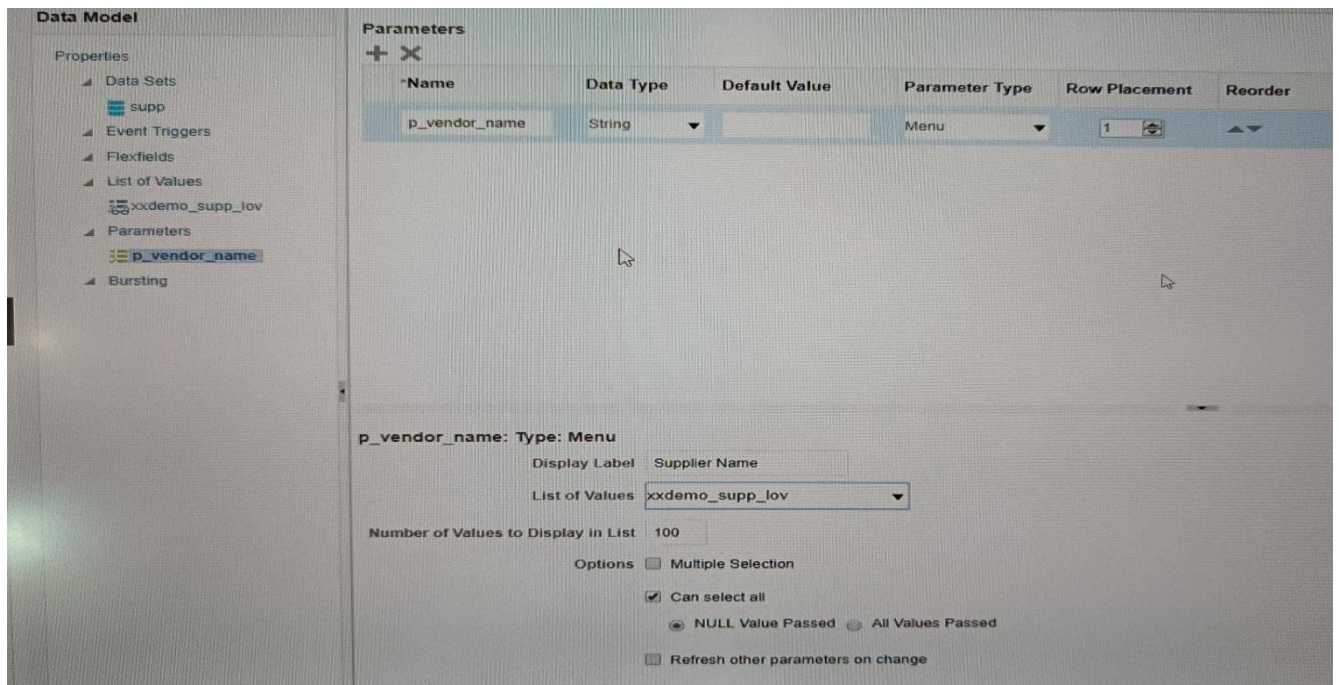


## 2.CREATE LOV FOR ABOVE PARAM:

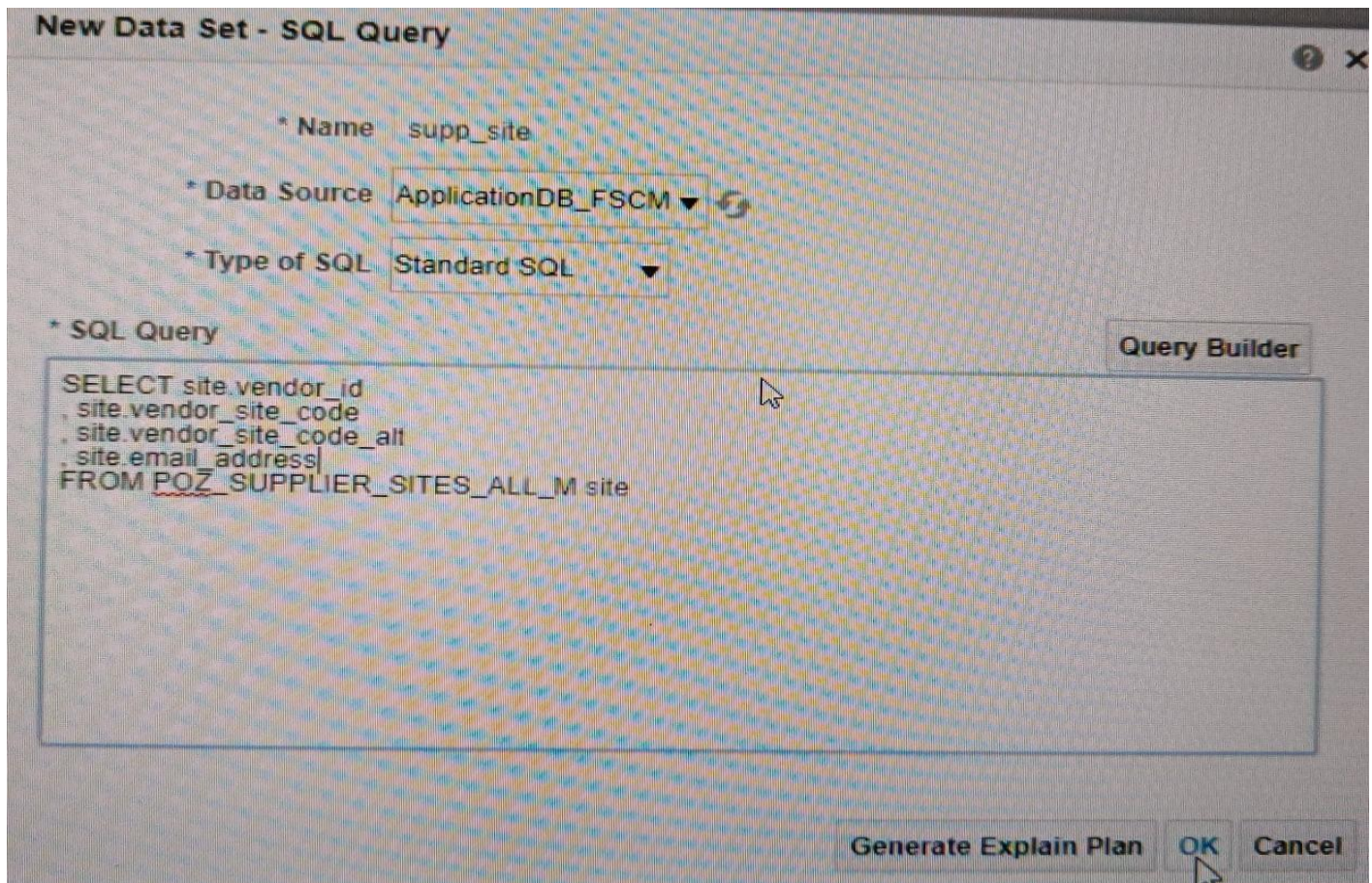


## ASSIGN THE LOV TO PARAM:



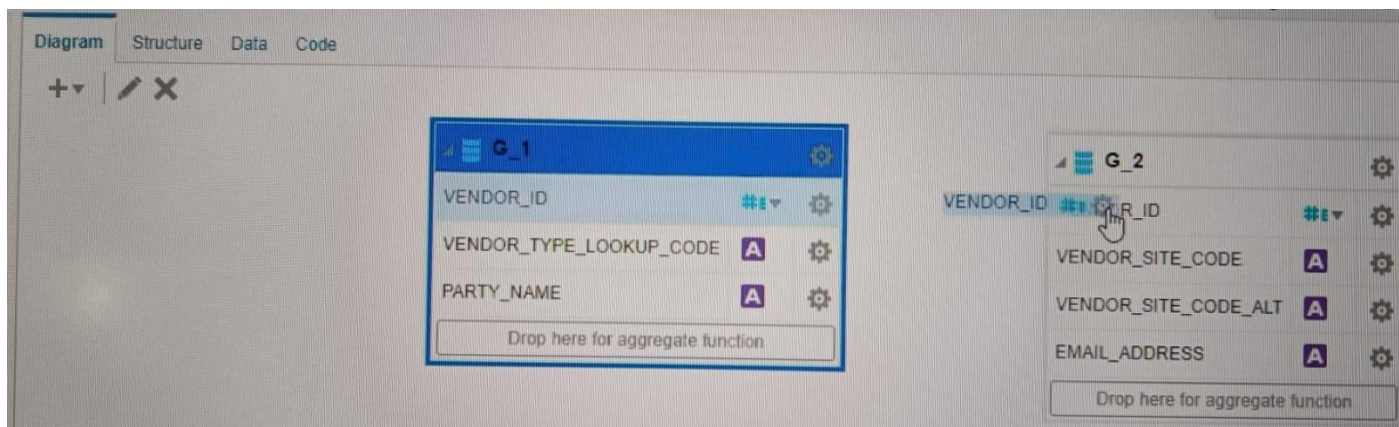


3. NOW CREATE ANOTHER DATA SET WHICH CONTAINS ANOTHER QUERY:



4. NOW JOIN BOTH THE TABLE USING ELEMENT LINK (DRAG & DROP):





NOW SAVE THE DATA MODEL IN CLOUD & THEN VIEW DATA:

Diagram Structure **Data** Code Manage Private Data Sources

Supplier Name: Dell Inc.

Rows: 200 View Export Save As Sample Data View Engine Log

Tree View | **Table View**

An Image Oracle BI Publisher Date: Nov 13, Page 1 Of 1

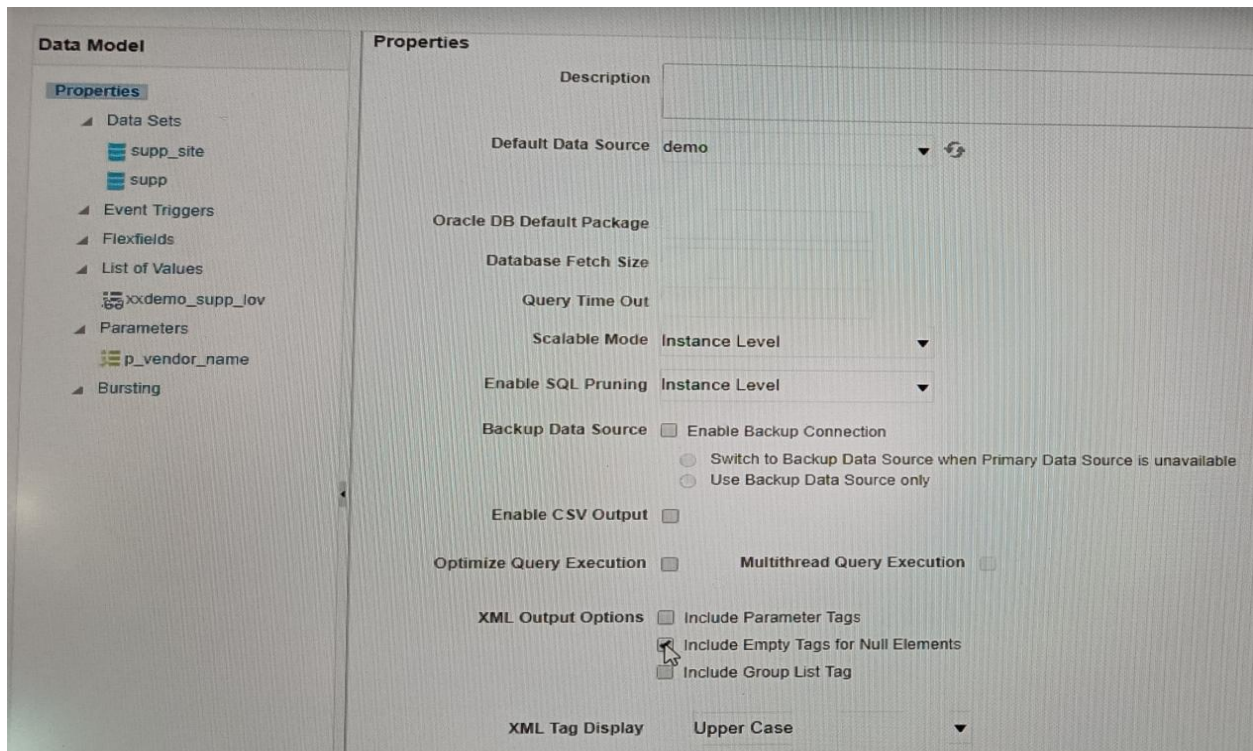
| VENDOR_ID       | VENDOR_TYPE_LOOKUP_CODE | PARTY_NAME |
|-----------------|-------------------------|------------|
| 300000047414679 |                         | Dell Inc.  |

| VENDOR_ID       | VENDOR_SITE_CODE | VENDOR_SITE_CODE_ALT | EMAIL_A |
|-----------------|------------------|----------------------|---------|
| 300000047414679 | Dell US1         |                      |         |
| 300000047414679 | Dell UK          |                      |         |
| 300000047414679 | Dell France      |                      |         |
| 300000047414679 | Dell (China)     |                      |         |
| 300000047414679 | Dell Australia   |                      |         |
| 300000047414679 | Dell Japan       |                      |         |
| 300000047414679 | Dell Italy       |                      |         |
| 300000047414679 | Dell Netherland  |                      |         |
| 300000047414679 | Dell Sweden      |                      |         |
| 300000047414679 | Dell Prog US     |                      |         |
| 300000047414679 | Dell Healthcare  |                      |         |
| 300000047414679 | Dell Univ US     |                      |         |
| 300000047414679 | Dell FinSvcs US  |                      |         |
| 300000047414679 | Dell FinSvcs UK  |                      |         |
| 300000047414679 | Dell US INS      |                      |         |

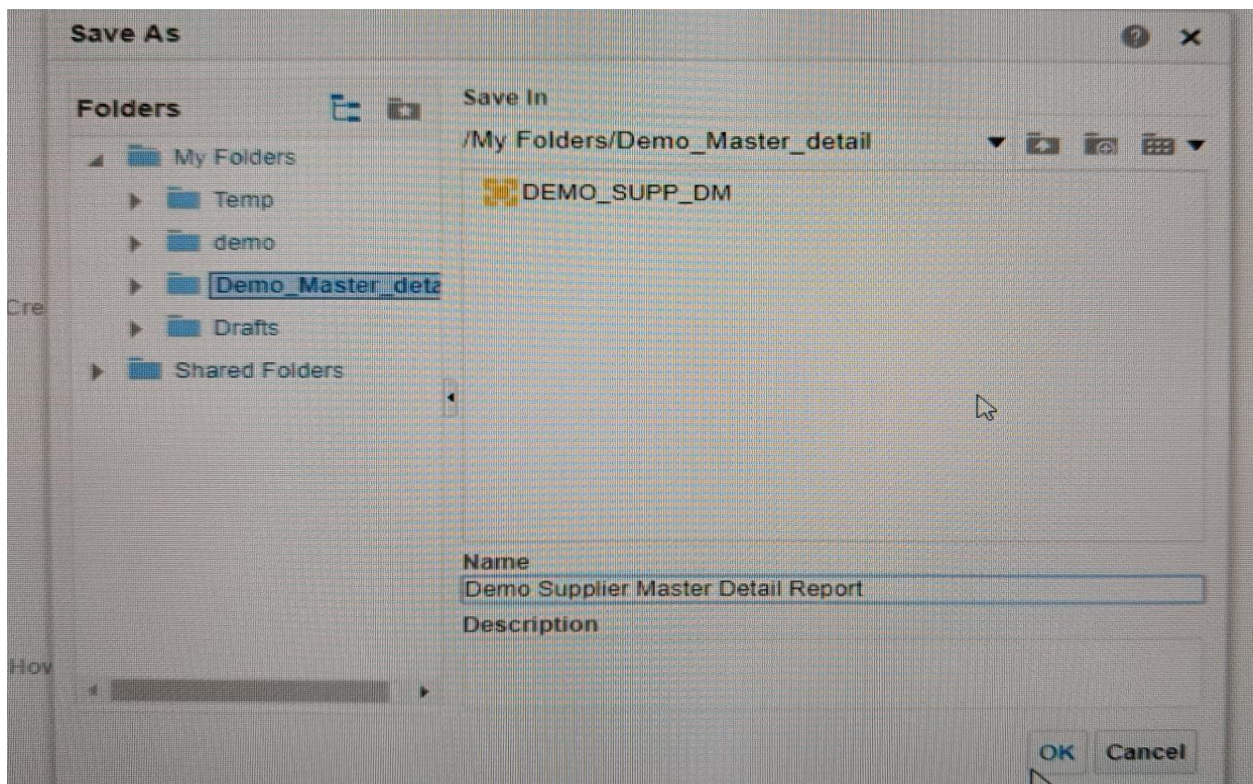
**5. NOW CHANGE THE PROPERTIES:**

CLICK ON PROPERTIES>



NOW 'SAVE AS SAMPLE DATA' TO CREATE REPORT.

6.CREATE REPORT:





NOW UPLOAD THE RTF TEMPLATE:

Supplier Details:

Supplier Name: PARTY\_NAME

Supplier Type: VENDOR\_TYPE\_LOOKUP\_CODE

Supplier Site Details:

| VENDOR_SITE_CODE   | VENDOR_SITE_CODE_ALT | EMAIL_ADDRESS   |
|--------------------|----------------------|-----------------|
| F VENDOR_SITE_CODE | VENDOR_SITE_CODE_ALT | EMAIL_ADDRESS E |

Upload Template File

\*Layout Name DEMO\_SUPP\_LAYOUT

\*Template File Choose File sample\_supp.rtf

\*Type RTF Template ▼

\*Locale English ▼

Upload Cancel

SAVE IT AND CLICK PROPERTIES>UNCHECK 'AUTO RUN'

Supplier Name Dell Inc. Apply

DEMO\_SUPP\_LAYOUT

Supplier Details:

Supplier Name: Dell Inc.

Supplier Type:

Supplier Site Details:

| VENDOR_SITE_CODE | VENDOR_SITE_CODE_ALT | EMAIL_ADDRESS |
|------------------|----------------------|---------------|
| Dell US1         |                      |               |
| Dell UK          |                      |               |
| Dell France      |                      |               |
| Dell (China)     |                      |               |
| Dell Australia   |                      |               |
| Dell Japan       |                      |               |
| Dell Italy       |                      |               |
| Dell Netherland  |                      |               |
| Dell Sweden      |                      |               |
| Dell Prog US     |                      |               |
| Dell Healthcare  |                      |               |
| Dell Univ US     |                      |               |
| Dell FinSvcs US  |                      |               |
| Dell FinSvcs UK  |                      |               |
| Dell US INS      |                      |               |



