**VIEWS IN DATA DICTIONARY:**  
 **Views :**  
Each application has their own database tables. If you want to display the part of the data from each table then we fetch required data from each table and merge the data and display the data.  
  
If is is a regular activity then it is better to create a View.  
Views are logical databases.  
View doesn't contains the data, at run time only view contains the data.  
  
There are 4 types of Views;  
       1. Projection View  
       2. Database View  
       3. Help View  
       4. Maintenance View  
  
Projection View:   
  
If you want to display the part of the data from a single table and if it is a regular activity then its better to create Projection view.

Steps to create Projection View:  
1. Execute SE11.  
2. Select the radio button "View".  
3. Provide the Projection view name ( Eg: ZPV\_KNB1 ) and click on Create.

[Graphical user interface

Description automatically generated](https://1.bp.blogspot.com/-GVBOtjInza4/V-tU0s-QDzI/AAAAAAAABlc/pZnI2FUG15MZBgHVg_jgtm2JUWvHnh1BACLcB/s1600/projection%2Bview1.PNG)

4. Select the radio button "Projection view" and click on Copy.

[Graphical user interface, application

Description automatically generated](https://2.bp.blogspot.com/-3EO9QuJNsSU/V-tV5hto-yI/AAAAAAAABlk/zCH1bo_Zkms4XJbJSPxhimcqJvfdnpFMQCLcB/s1600/projection%2Bview2.PNG)

5. Provide the short description (Eg: view for customer master data)  
6. Provide basis table ( Eg: KNB1 ) and click on Table fields.

[Table

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7. Select the required fields and click on Enter then the added fields are shown as below.

[Graphical user interface, application, table

Description automatically generated](https://2.bp.blogspot.com/-0kay3A4dg8U/V-taOgXUl8I/AAAAAAAABl8/dAR1oNaU0J0b6DKlYp1QXD3-2KrCrKzFgCLcB/s1600/projection%2Bview4.PNG)

8. Save, Check and Activate.

View in Program:  
  
\*&---------------------------------------------------------------------\*  
\*& Report  ZPV\_IN\_PROGRAM  
\*&  
\*&---------------------------------------------------------------------\*  
  
REPORT  ZPV\_IN\_PROGRAM.  
  
\* Declare the data  
TYPES: BEGIN OF TY\_KNB1,  
              KUNNR TYPE KNB1-KUNNR,  
              BUKRS TYPE KNB1-BUKRS,  
              PERNR TYPE KNB1-PERNR,  
              AKONT TYPE KNB1-AKONT,  
              END OF TY\_KNB1.  
  
DATA : LS\_KNB1 TYPE TY\_KNB1,  
             LT\_KNB1 TYPE TABLE OF TY\_KNB1.  
  
\* Fetch the data from view  
SELECT KUNNR  
       BUKRS  
       PERNR  
       AKONT  
       FROM ZPV\_KNB                                     " From view  
       INTO TABLE LT\_KNB1.  
  
\* Display the data  
**LOOP** AT LT\_KNB1 INTO LS\_KNB1.  
  
  WRITE :/ LS\_KNB1-KUNNR,  
                   LS\_KNB1-BUKRS,  
                   LS\_KNB1-PERNR,  
                   LS\_KNB1-AKONT.  
  
  **ENDLOOP**.  
  
Output:

[Table

Description automatically generated](https://2.bp.blogspot.com/-S1xK7hhl4k8/V-tw17KdhdI/AAAAAAAABnU/RBlhwRSVwmsf6S5kQh5FtZvQDJQGW2wAgCLcB/s1600/projection%2Bview5.PNG)

Database View:  
  
If you want to display the part of data from more than one table then we fetch the data from each table and merge the data and display the data. If it is a regular activity then its better to create the database view.  
  
Database view pick the data from both the tables if and only if there is one or more than one entry is available in right hand side table with corresponding left hand side table.  
  
Steps to create Database View:  
  
1. Execute SE11.  
2. Select the radio button "View".  
3. Provide the View name ( Eg: ZVS\_DBV ) and click on Create.

[Graphical user interface

Description automatically generated](https://3.bp.blogspot.com/-2v6QIqByhV0/V-tkKrfqaDI/AAAAAAAABmM/o9VHy9OWjqEYBnC8CgvDKLrgCAzTmSJ6QCLcB/s1600/database%2Bview.PNG)

4. Select radio button "Database view" and click on Copy.

[Graphical user interface, text, application

Description automatically generated](https://1.bp.blogspot.com/-n4E0nTVZ7g8/V-tkd1IVMlI/AAAAAAAABmQ/0X1NS6aFPC0a_HNWoUTY8Aq0TZTRtcHggCLcB/s1600/database%2Bview1.PNG)

5. Provide short description ( Eg: Database view for company and customer tables ).  
6. Provide participated database tables in the left side. ( Eg: T001, KNB1 ).

7. Select all the tables and click on Relationships.

[Table

Description automatically generated](https://1.bp.blogspot.com/-ukw6gLFGbvY/V-tn3QydpdI/AAAAAAAABmo/anjfGWJdCeAvCotfkiGCZLXjIptB9afvQCLcB/s1600/database%2Bview4.PNG)

8. Select the Check box and click on Copy.

[Graphical user interface, text, application

Description automatically generated with medium confidence](https://3.bp.blogspot.com/-Aoo-LDWBE3Q/V-toQLxhCtI/AAAAAAAABms/WCYCQxWt4ocJH2VeVP0Buw5pdTzGOm_HACLcB/s1600/database%2Bview5.PNG)

9. Click on View fields tab and click on Table fields button.

[Table

Description automatically generated](https://1.bp.blogspot.com/-9J5HD0H2Oeo/V-to6bdoZdI/AAAAAAAABmw/h2OHIFssCe8moyVElcHjwOkU1XNY_M_MACLcB/s1600/database%2Bview6.PNG)

10. Select each table and click on choose.  
11. Select the required fields from each table and click on Copy. Now the view contains the following fields.

[Graphical user interface, application, table

Description automatically generated](https://2.bp.blogspot.com/-KUj1gdwTBpE/V-trC1BS1VI/AAAAAAAABnA/XONOxS6Mdq4nHJVU-QphBehB9rjok-g5ACLcB/s1600/database%2Bview7.PNG)

12. Save, Check and Activate.

Database view in Program:  
  
\*&---------------------------------------------------------------------\*  
\*& Report  ZDBV\_IN\_PROGRAM  
\*&  
\*&---------------------------------------------------------------------\*  
  
REPORT  ZDBV\_IN\_PROGRAM.  
  
\* Data Declaration  
TYPES: BEGIN OF TY\_FINAL,  
              BUKRS TYPE T001-BUKRS,  
              BUTXT TYPE T001-BUTXT,  
              KUNNR TYPE KNB1-KUNNR,  
              ERDAT TYPE KNB1-ERDAT,  
              END OF TY\_FINAL.  
  
DATA : LS\_FINAL TYPE TY\_FINAL,  
             LT\_FINAL TYPE TABLE OF TY\_FINAL.  
  
\* Fetch the data from view  
SELECT BUKRS   
                BUTXT   
                KUNNR   
                ERDAT  
    FROM ZVS\_DBV                     " From Database view                   
    INTO TABLE LT\_FINAL.  
  
\* Display the data  
 **LOOP** AT LT\_FINAL INTO LS\_FINAL.  
  
    WRITE: / LS\_FINAL-BUKRS,  
                     LS\_FINAL-BUTXT,  
                     LS\_FINAL-KUNNR,  
                     LS\_FINAL-ERDAT.  
  
    **ENDLOOP**.  
  
Output:  
[Table

Description automatically generated](https://1.bp.blogspot.com/-8dZCHrF21ik/V-twtzoxIAI/AAAAAAAABnQ/FWW3N5hh24srG4bbd-sJ2nDEeYsNl7xVQCLcB/s1600/database%2Bview8.PNG)

Help View:   
  
Help view fetch the data from left hand side table even though there in no match found in right hand side table. Help view is possible for only two database tables.  
  
Help view is always used in selection method of elementary search help.  
  
Steps to create Help view:  
  
1. Execute SE11.  
2. Select the radio button " View ".  
3. Provide the view name ( Eg: ZDB\_HVIEW ) and click on Create.

[Graphical user interface

Description automatically generated](https://3.bp.blogspot.com/-3Wo7rRM8prk/V-t-PSvuURI/AAAAAAAABnk/EpkdqyhQsIUoOkVyGpDJ1zkg0rBZGOjxQCLcB/s1600/help%2Bview1.PNG)

4. Select the radio button "Help view" and click on Copy.

[Graphical user interface, text, application

Description automatically generated](https://4.bp.blogspot.com/-PmuMcmb8Vsc/V-t-bjTKmCI/AAAAAAAABno/R0tBweQIntMZT_5hLYTXBI9Uweu_FwGTQCLcB/s1600/help%2Bview2.PNG)

5. Provide short description ( Eg: Help view for comp and cust ).  
6. Provide the right hand side table ( Eg: KNB1 ) and click on Relationships button.

[Graphical user interface, application, table

Description automatically generated](https://1.bp.blogspot.com/-6E9c3ZxVcew/V-uQkZC6T6I/AAAAAAAABn4/9NzqGvS02P0Z7ej7xbsl8BQGcmK1m2hgQCLcB/s1600/help%2Bview3.PNG)

7. Select our required relationship checkbox and click on Copy.

[Table

Description automatically generated with medium confidence](https://4.bp.blogspot.com/-OqYdnEondBI/V-uSQgAsnvI/AAAAAAAABoA/t_hbI8QiVCIUkrIGg-BE7JWSgJDr-iTVgCLcB/s1600/help%2Bview4.PNG)

8. Click on View Fields tab.

[Graphical user interface, application, table, Excel

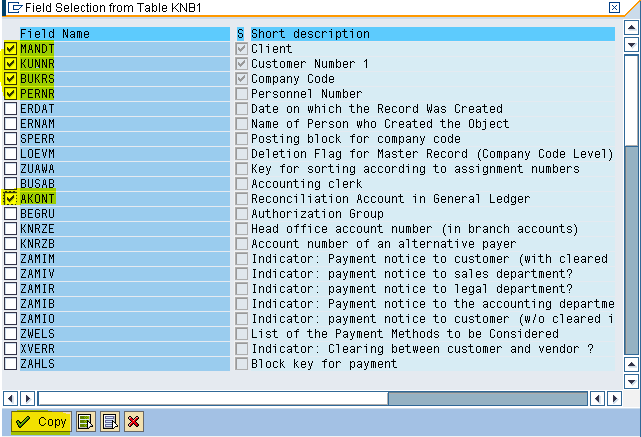
Description automatically generated](https://1.bp.blogspot.com/-z7Xaq2O4AJo/V-uSfvrDeKI/AAAAAAAABoE/pQeEc-n0d1M7cUq4_PRZMm_5wzl4vwqHwCLcB/s1600/help%2Bview5.PNG)

9. Click on Table fields button.

[Table

Description automatically generated](https://2.bp.blogspot.com/-l024i4QskG0/V-uSpys7s1I/AAAAAAAABoM/zzlBMd1pegkgJoUMesAc4aieOtJpoCbFwCLcB/s1600/help%2Bview6.PNG)

10. Select the each table and click on choose. Select the required fields from table and click on Copy.

[](https://3.bp.blogspot.com/-s1Edq6zfY-g/V-uS2afS6uI/AAAAAAAABoQ/0ri4EsFFJAk40f46eENYvD6Ese9-9QPZgCLcB/s1600/help%2Bview7.PNG)

[Graphical user interface

Description automatically generated with low confidence](https://2.bp.blogspot.com/-LAK0EIxd-fg/V-uS-DZ_BNI/AAAAAAAABoU/z4Mlj_nP1qID4HghQg7QPgZhgRf_buWpQCLcB/s1600/help%2Bview8.PNG)

11. Save, Check and Activate.

Maintenance View:  
  
Maintenance view is used to update the data in the participated database tables. The participated tables must have primary key and foreign key relationship.  
  
Based on the tables we create the maintenance view. Whenever we perform the insert, update and delete operations on the view then data will be updated in their respective database tables.  
  
Working with Foreign Key Relationship:  
  
Foreign key is a field in the table that is connected to another table via foreign key relationship.  
  
This is used to validate the data being entered in one table ( Foreign key table ) by checking against list of possible values in another table ( Check table ).  
  
Now Create the two tables as below.  
  
Table : ZEMP\_DETAILS  
  
1. Execute SE11.  
2. Select the radio button " Database table "  
2. Provide the table name ( Eg: ZEMP\_DETAILS ) and click on Create.

[Graphical user interface, application

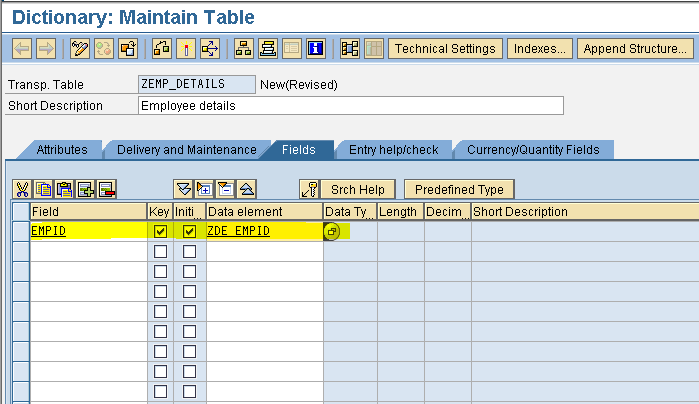
Description automatically generated](https://4.bp.blogspot.com/-uL4ylaaUSBk/V-uzZ7eJp-I/AAAAAAAABps/xp8xX8d8tA4zwFndm-i9KB5myL1dLpN_ACLcB/s1600/Foreign%2Bkey%2Brelationship1.PNG)

3. Provide short description ( Eg: Employee details ).  
4. Provide delivery class ( Eg: A ) and data browser ( Eg: Display / Maintenance Allowed ) and click on Fields tab.

[Graphical user interface

Description automatically generated with low confidence](https://3.bp.blogspot.com/-ucI1RgE0_UY/V-u01nOzJiI/AAAAAAAABp4/MWg5Os-1KTsL2dJHqFGD-YMZ4qRVH8HwACLcB/s1600/Foreign%2Bkey%2Brelationship2.PNG)

5. Provide field ( Eg: EMPID ) and data element ( Eg: ZDE\_EMPID )

[](https://1.bp.blogspot.com/-SDN88Ly21fE/V-u1_rqmm4I/AAAAAAAABp8/p6uLSJfrzGcnnvtpNXTaVdt7br0efvt6QCLcB/s1600/Foreign%2Bkey%2Brelationship3.PNG)

6. Double click on data element. Click on Yes. Save. Enter. Click on Yes.  
7. Provide short description ( Eg: Employee Id ) and provide the domain name ( Eg: ZDM\_EMPID ).

[Graphical user interface

Description automatically generated](https://4.bp.blogspot.com/-VqJvXGAnD4o/V-u29ritUhI/AAAAAAAABqE/D5DYGAcqB4McM3qbkLuUOnci6rO85-IRgCLcB/s1600/Foreign%2Bkey%2Brelationship4.PNG)

8. Double click on domain. Click on Yes. Save. Click on Yes.  
9. Provide the short description ( Eg: Employee Id ), Data type ( Eg: CHAR ) and No. of Characters ( Eg: 10 ).

[Graphical user interface, text, application, email

Description automatically generated](https://1.bp.blogspot.com/-DlZb4WD_nyY/V-u6YTsAaMI/AAAAAAAABqU/9wFMne4TlQYBrqnQqaXY8Pebx9xSaO5RACLcB/s1600/Foreign%2Bkey%2Brelationship5.PNG)

10. Save, Check and Activate the domain. Click on Back.  
11. Save, Check and Activate the data element. Click on Back.  
12. Similarly provide the other field details   
      ( Field name : EMPNAME,   
         Data Element : ZDE\_EMPNAME,   
         Domain : ZDM\_EMPNAME,   
         Data type : CHAR,  
         No. of Characters : 20 ).  
  
      ( Field name : EMPCITY,  
        Data Element : ZDE\_EMPCITY,  
        Domain : ZDM\_EMPCITY,  
        Data type : CHAR,  
        No. of Characters : 20 ).  
  
13. Now the table is having the fields as below.

[Table

Description automatically generated](https://1.bp.blogspot.com/-augI2H6cjI4/V-u80sa9m3I/AAAAAAAABqg/MHgMUuW5rM0oV7fqGUy0nownGA2qhe4rQCLcB/s1600/Foreign%2Bkey%2Brelationship6.PNG)

14. Click on Technical settings in the application tool bar.   
15. Provide Data class ( Eg: APPL0 ) and Size category ( Eg: 0 ).

[Graphical user interface, text, application, email

Description automatically generated](https://1.bp.blogspot.com/-iyWvt0M3Yhg/V-u9r6aTPmI/AAAAAAAABqo/LpQyFv0J4hk7txuTyQSS-xXygMw4I9rBwCLcB/s1600/Foreign%2Bkey%2Brelationship7.PNG)

15. Save and Click on Back.  
16. Save, Check and Activate the table.  
17. Save the following data in the table.

[Table

Description automatically generated](https://4.bp.blogspot.com/-1JFaJfvO_S8/V-ybB3qCuGI/AAAAAAAABq4/VpK08OMgcaUrmhy5XnrT-Q8IlKHgOoyCACLcB/s1600/Foreign%2Bkey%2Brelationship8.PNG)

Table : ZEMP\_SALARY  
  
1. Execute SE11.   
2. Select the radio button " Database table ".  
3. Provide the database table name ( Eg: ZEMP\_SALARY ) and click on Create.

[Graphical user interface, application

Description automatically generated](https://3.bp.blogspot.com/-jcEFATwCqbM/V-ybp0xAp6I/AAAAAAAABq8/uo26ONrSwEck0A9_IuX5P1ydGeCCDLOIgCEw/s1600/Foreign%2Bkey%2Brelationship10.PNG)

4. Provide short description ( Eg: Employee Salary ).  
5. Provide Delivery class ( Eg: A ) and data browser ( Eg: Display / Maintenance Allowed ) and click on Fields tab.

[Graphical user interface, text, application, email

Description automatically generated](https://4.bp.blogspot.com/-MP85IoWdTdI/V-ydSo6i-fI/AAAAAAAABrQ/mbIDPT8JlHEWa-YOjrHhfIw_uLh3sKn2wCLcB/s1600/Foreign%2Bkey%2Brelationship11.PNG)

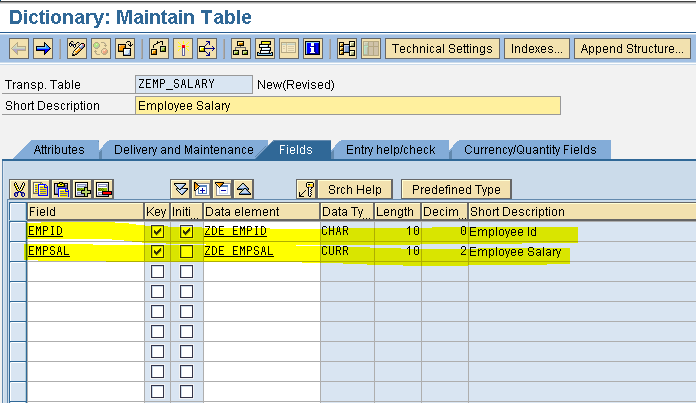
6. Provide Field ( Eg: EMPID ) and Data element ( Eg: ZDE\_EMPID ) and double click on data element. Click on Yes. Save. Enter.  
( Note: The domain name of the link field in the both the tables should be same ).

7. Similarly for EMPSAL field provide the following details.  
    ( Field name : EMPSAL  
      Data element : ZDE\_EMPSAL  
      Domain : ZDM\_EMPSAL  
      Data type : CURR ).  
8. For currency field we need to provide the reference key field so, click on click on Currency/Quantity fields tab and provide the details as follows.

[Graphical user interface, application, table

Description automatically generated](https://4.bp.blogspot.com/-IqPgvu9RekA/V-ykyq6XSCI/AAAAAAAABrg/BuO5Of81xLMPzsJb7VBU-CZ1R-4nP6tfgCLcB/s1600/Foreign%2Bkey%2Brelationship12.PNG)

9. Now the fields in the table are as follows.

[](https://1.bp.blogspot.com/-Mm7F4zI1hME/V-ylMuh7KII/AAAAAAAABrk/4gN6o30IzEozWT3ABSznixNrCCSSZLSbACLcB/s1600/Foreign%2Bkey%2Brelationship13.PNG)

10. Click on Technical settings in the application tool bar and provide the Data class ( Eg: APPL0 ) and Size category ( Eg: 0 ).

[Graphical user interface, text, application, email

Description automatically generated](https://3.bp.blogspot.com/-Ig8Rxzel_E8/V-ypMVFXZhI/AAAAAAAABsA/7H4csicZirQ4c7ZFjueH2aHfpxaCOFc9gCLcB/s1600/Foreign%2Bkey%2Brelationship15.PNG)

11. Click on save. Click on back.  
12. Select the field for which we want to provide the foreign key relationship ( Eg: EMPID ) and Click on Foreign keys ( Key symbol ) button.  
13. Provide the check table name ( Eg: ZEMP\_DETAILS ) and click on Generate proposal. It automatically establish the foreign key relation. Click on Copy.

[Graphical user interface, table

Description automatically generated](https://3.bp.blogspot.com/-6qPFMxEM2RA/V-ym_PR7K-I/AAAAAAAABr0/rwxC6rSLjUsV5CXsbShCSbODTrn29IE7wCLcB/s1600/Foreign%2Bkey%2Brelationship14.PNG)

14. Save, Check and Activate the table.  
15. Save the following data in the table.

[Table

Description automatically generated](https://3.bp.blogspot.com/-r-q74Svfm2k/V-ybunC94uI/AAAAAAAABrM/AhL3X1JK_wMHfMK6Djc8P1yyIr_y9zcVwCEw/s1600/Foreign%2Bkey%2Brelationship9.PNG)

Steps to create Maintenance View:  
  
1. Execute SE11.  
2. Select the radio button " View ".  
3. Provide the View name ( Eg: ZEM\_VMAINTENANCE ) and click on Create.

[Graphical user interface

Description automatically generated](https://3.bp.blogspot.com/-GCouuUlC4IA/V-yqTfXFhnI/AAAAAAAABsI/gBykFzV8B4UQsPdfeKQ9ohXeG-qw8d-FACLcB/s1600/maintenance%2Bview.PNG)

4. Select the radio button " Maintenance view " and click on Copy.

[Graphical user interface, text, application

Description automatically generated](https://2.bp.blogspot.com/-cFn00ADpwJw/V-yqezR1HmI/AAAAAAAABsM/XGLFGcJhWwA0aUEXjBmbFBu-9zOyoebVwCLcB/s1600/maintenance%2Bview1.PNG)

5. Provide short description ( Eg: Employee Maintenance view ).  
6. Provide the foreign key table name ( Eg: ZEMP\_SALARY ) and click on Relationships button.

[Table

Description automatically generated](https://3.bp.blogspot.com/-Lz_fAvt6QiU/V-yrjuZzvrI/AAAAAAAABsU/jZWRFwAZ0e4XT3cbRCBPAE7BfOhC3l1UgCLcB/s1600/maintenance%2Bview2.PNG)

7. Now it display the all the available check tables of this table.  
8. Select the Check box and click on Copy.

[Graphical user interface, text, application

Description automatically generated](https://2.bp.blogspot.com/-eaG6vnirB1k/V-ysGWni9wI/AAAAAAAABsg/PXNxG9L64zgBPX8Oi0-El2r7LaftfHYCwCLcB/s1600/maintenance%2Bview3.PNG)

9. Click on View fields tab.  
10. Click on Table fields.  
11. Select the each table and select the required fields.  
12. Now the view contains the following fields.

[Table

Description automatically generated](https://4.bp.blogspot.com/-ama08YPscgI/V-ytZZ8FJ5I/AAAAAAAABss/Bti54oWBC8kAfQtwQPDRcgnAy97Y-r98wCLcB/s1600/maintenance%2Bview4.PNG)

13. Save, Check and Activate.  
14. In the menu bar click on Utilities. Select Table maintenance generator.

[Graphical user interface, table

Description automatically generated](https://2.bp.blogspot.com/-siQaMJ8PTfA/V-yt6-3zwmI/AAAAAAAABsw/CSX86na1nKUUkj_3aSBkZmGZnkhyczu0wCLcB/s1600/maintenance%2Bview5.PNG)

15. Select the Authorisation group ( Eg: &NC& ).  
16. Select the Function group as maintenance view name ( Eg: ZEM\_VMAINTENANCE ).  
17. Select the one step maintenance type.  
18. Provide the screen no ( Eg: 1111 ) and click on Create.

[Graphical user interface, text, application, email

Description automatically generated](https://4.bp.blogspot.com/-oJOzaoD3paQ/V-yvj_Yb6tI/AAAAAAAABtA/MqXA_chnTXolrRy-N8hiNBn_3Hm7g3-RgCLcB/s1600/maintenance%2Bview6.PNG)

19. Save. Click on Back.  
20. Activate the maintenance view.   
  
  
Steps to maintain the data in Maintenance view:  
  
1. Execute SM30.  
2. Provide the table/view name ( Eg: ZEM\_VMAINTENANCE ).  
3. Click on Maintain. Enter.  
4. Perform the insert, update, delete operations on data.