

JD Edwards EnterpriseOne Tools

Business View Design Guide

9.2

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Preface

Welcome to the JD Edwards EnterpriseOne documentation.

Documentation Accessibility

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Related Information

For additional information about JD Edwards EnterpriseOne applications, features, content, and training, visit the JD Edwards EnterpriseOne pages on the JD Edwards Resource Library located at:

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Conventions

The following text conventions are used in this document:

Convention	Meaning
Bold	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
<i>Italics</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
Monospace	Monospace type indicates commands within a paragraph, URLs, code examples, text that appears on a screen, or text that you enter.
> Oracle by Example	Indicates a link to an Oracle by Example (OBE). OBEs provide hands-on, step-by-step instructions, including screen captures that guide you through a process using your own environment. Access to OBEs requires a valid Oracle account.

1 Understanding Business Views

Understanding Business Views

A business view is a selection of data items from one or more tables. After you create a table, use Oracle's JD Edwards EnterpriseOne Business View Design to create a business view that contains only the data items that are required for the application. JD Edwards EnterpriseOne uses the business view that you create to generate the appropriate SQL statements that are necessary to retrieve data from the database. After you define a business view, you can attach it to a:

- Form that updates data in an interactive application.
- Report that displays data.

Business views increase performance by moving less data across the network because you include only those data items that an application requires.

Business views are required for creating applications and generating reports. Business views:

- Link a JD Edwards EnterpriseOne application to one or more tables.
- Contain all or a subset of data items from one or more tables.
- Can use table joins to join multiple tables on common fields.
- Are building blocks for text search indexes that enable full-text searching of data.

To make a business view available for full-text searching, select the Text Search option on the properties form. Do not select this option if you do not plan to use the business view for full-text searching; doing so can negatively affect performance.

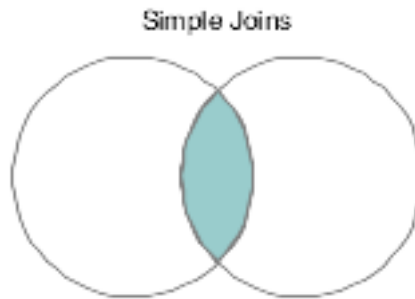
Table Joins

Use the table join feature to join multiple tables in a business view. Joining tables enables you to combine fields from different tables for each record of the primary table. Perform the join using fields that are common to the tables. Define the joined fields to satisfy a join condition, such as when the records, or rows, have the same value in the key fields. The primary table is the table where you initiate the join (usually the table on the left in JD Edwards EnterpriseOne Table Design Aid) and the secondary table is the table where you conclude the join (usually the table on the right in JD Edwards EnterpriseOne Table Design Aid). Several types of joins exist, including those described in the following table:

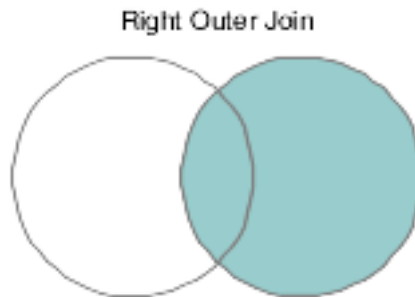
Join Type	Description
Simple join, also known as inner join	Includes only rows that match both the primary and secondary tables.
Right outer join	Includes rows that are common to both the primary and secondary tables, and unmatched rows from the secondary table.

Join Type	Description
Left outer join	Includes rows that are common to both the primary and secondary tables, and unmatched rows from the primary table.
SQL 92 left outer join	Includes rows that are common to both the primary and secondary tables, unmatched rows from the primary table, and any rows with null values from the secondary table—regardless of any Where clause against the fields from the secondary table.

This diagram illustrates a simple table join:



This diagram illustrates a right outer join:



This diagram illustrates a left outer join:

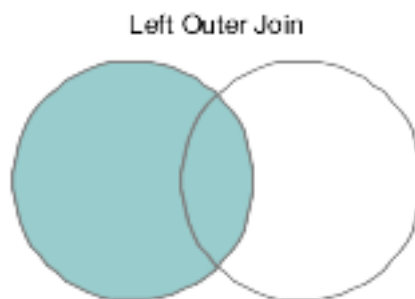


Table Unions

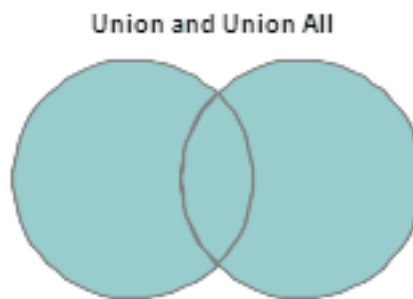
A table union joins entire tables. There are two options for table unions:

- Union
- Union All

With the Union option, the system first checks for rows from the primary table, and then for rows with corresponding columns from the secondary table. If the rows from the two tables contain identical data, then only one of the records is retrieved in the union. Unions include rows from the primary table and corresponding columns from the secondary table.

With Union All, the system first checks for rows from the primary table, and then for rows with corresponding columns from the secondary table. Duplicate records are retrieved if the rows from the two tables contain identical data. Because Union All does not scan for distinct records, the retrieval time is faster than when using the Union option.

This diagram illustrates a table union, whether by Union or Union All:



Select Distinct

If a business view includes the primary key fields of the primary table, every row of the business view query is unique. The primary key field has a different value in each row, or record, of the primary table. If the business view does not contain all primary key fields of the primary table, then duplicate rows can occur during the business view query. You can eliminate the duplicate rows in the output by using the Select Distinct feature when designing the business view.

Distinct Union All

With Distinct Union All, Union All retrieves the distinct rows from the primary table and the secondary table.

For example, this table shows the records from the primary table that are used for the Distinct Union All output:

Employee Name	Employee ID	Employment Date
Jeffrey Jones	123	1/5/2009

Employee Name	Employee ID	Employment Date
Shalini Kumar	345	1/5/2009
Lupe Garcia	456	2/8/2009
Dominique Bisset	789	2/8/2009

This table shows the records from the secondary table that are used for the Distinct Union All output:

Employment Date	Employee Name
1/5/2009	Jeffrey Jones
3/7/2009	Sheila Watkins
9/23/2009	Dominique Bisset
9/23/2009	Tran Nguyen

This example shows the result set from the Distinct Union All joining of the two tables:

Employment Date
1/5/2009
2/8/2009
1/5/2009
9/23/2009
3/7/2009

Primary Key Fields

The fields that are included in the primary index of a table are displayed as key fields in JD Edwards EnterpriseOne Business View Design Aid. These fields include a key icon next to the field name. The primary key fields of a table are

always included in the business view. Business views then carry information from the table to an application. To carry forward additional information other than the primary key fields, select additional fields to include in the business view.

2 Designing Business Views

Understanding Business View Design Aid

Before you begin designing a business view, consider the requirements. Determine the purpose of the application that needs the business view and the data items that are required. You can then identify the tables in which the required data items reside. Adding a new business view does not affect performance; however, using an existing business view that contains many columns that are not required by the application might negatively affect performance.

Business views usually contain a few more fields than are used on the form, in the grid, or in the batch application. The unused fields are related to the fields that are required. If requirements change, these fields can be added to the application without redesigning the business view.

You can modify business views to reflect changes in business requirements. You can easily add fields to existing business views. Deleting fields from business views, however, is more complicated. If you need to delete fields from a business view, ensure that those fields are not currently used in an interactive or batch application.

You can use different business views for each form type that is included in an interactive application. Typically, search & select forms include the minimum number of fields that are required to keep them at a nominal size. Search & select forms should include:

- Only the fields that are necessary for filtering searches.
- The associated output fields, such as descriptions.

Find browse and parent child forms include more fields and are typically larger than search & select forms. However, you should still limit the number of fields on find browse and parent child forms to include only those fields that are required for filtering and displaying the associated output fields.

Input-capable forms are usually large and include all of the fields from the table. They should include all of the fields that are necessary to add or update a record, including audit information.

Understanding Business View Naming Conventions

When naming a business view object, guidelines indicate that the name can be a maximum of eight characters and should be formatted as:

VzzzzzA,where:

V is the business view.

zzzzz is the characters that represent the primary table.

A is a letter that designates the sequence of the business view.

For example, V0101A is the first business view that is created over the F0101 table, V0101B is the second business view that is created over the same table, and V0101C is the third business view that is created.

External Developer Considerations for Naming Business Views

The term *external development* refers to applications that are created by developers who are not employed by Oracle's JD Edwards, such as consultants who create custom applications for clients. To prevent interference between JD Edwards EnterpriseOne and non-JD Edwards EnterpriseOne objects, you must use caution when naming an external business view. When you create business views for an application that is created by external developers, format the business view name as:

Vssss9999,where:

V is the business view.

ssss is the system code for the enterprise.

9999 is a unique next number or character pattern within the enterprise.

Provide a business view description with a maximum of 60 characters. It should reflect the application description followed by the form type, for example, Item Master Browse and Item Master Revisions.

Primary key fields should remain in the business view and should not be reorganized. If you try to remove a primary key field, you receive an error message.

Note: At least one business view for each table should include all columns from the table. Only one business view is allowed for each form type, except for a header detail form. You can use two business views on header detail forms, one for the header portion of the form and one for the detail portion.

Naming Joined Business Views

The description of a joined table business view should include the names of the tables that are being joined. Place the primary table first, and separate the table names using a forward slash (/).

For example, create a joined table business view by joining the F4101 (Item Master) table and the F4102 (Item Branch) table. The F4101 table is the primary table, so the business view should be named:

Item Master and Branch F4101/F4102.

Understanding Business View Design Aid

This section provides an overview of the JD Edwards EnterpriseOne Business View Design Aid interface and discusses:

- Tables for business views.
- Data items for business views.
- Select Distinct.
- Table joins.
- Table unions.

Understanding the Business View Design Aid Interface

This table describes the forms presented in the single JD Edwards EnterpriseOne Business View Design Aid window:

Form	Description
Table Joins	Displays the tables that you select, along with the columns that are included in the tables. A key icon appears next to the primary key fields. The primary key fields are fields that are included in the primary index of the table. The primary table is where an application begins a search.
Available Tables	Enables you to locate tables and move them to the Table Joins form.
Selected Columns	Displays the data items that you select from the table to include in the business view.
Object Properties	Displays the properties of a data item that is selected in the Selected Columns form.

Consider these results when deleting business views and components of business views:

Deletion	Results
Deleting a data item from a business view.	If the data item is used in an application, you receive an error message when you attempt to run the application. If this occurs, you must open the application and delete the data item from the application.
Deleting an entire table from a business view.	You cannot run any of the applications that use the business view. If this occurs, you must open the application and delete all items that reside in the deleted table or attach a different business view to the application and reconnect all of the controls.
Deleting an entire business view.	Any forms that use the business view will fail. If this occurs, you must select a new business view for the forms and reconnect all of the controls.

Tables for Business Views

When creating custom business views, you must first select appropriate tables. The tables that you select must include the fields that are required to meet the business purpose. Although you can create one large business view to retrieve and update the columns that are required by the application, performance is negatively affected. Whenever possible, consider using table joins rather than creating one large business view that contains many data items.

Note: To ensure maximum performance in applications, use these guidelines for the number of tables that are joined in a business view:

- Join five tables if all joins are simple joins.
- Join three tables if any of the joins is an outer join or in the event of a table union.

Note:

- *Creating Table Joins.*

Data Items for Business Views

If you include more than one table in a business view, you must indicate which table is the primary table. You can then select the required data items to include in the business view. All of the data items that reside in the tables that you selected are available for the business view.

Select the data items that are required by the interactive or batch application to include in the business view. When you create an application, you do not have to use every item in the business view. Balance between keeping the business view small for maximum performance and including enough fields to allow for future business requirements.

If the required data item appears in multiple tables, you typically want to select the data item from the primary table. Selecting the same data item from multiple tables causes the data item to appear multiple times in the business view. Each data item that is added to the business view includes its own table reference to identify its origin.

Note: If you include multiple tables in a joined business view, the primary key fields are automatically selected from the tables. You cannot remove the primary key fields from the business view.

If you include multiple tables in the business view, you must join the tables using a table join. You typically want to join tables on common key fields. You might also need to join on additional fields. You should join on as many fields as necessary to ensure that the data is fetched properly for each record. The joins must be performed on fields of the same field type.

Note: To ensure maximum system performance, do not include more than 256 columns in business views.

Note:

- *Creating Table Joins.*

Select Distinct

When a business view includes the primary key fields of the primary table, every row of the business view query is unique. If for some reason the business view does not contain all primary key fields of the primary table, then duplicate rows can occur during the business view query.

For example, JD Edwards EnterpriseOne Journal Entry is unique by line number and document number. However, each document can contain multiple lines. If you need to display only one record per document, you can use Select Distinct to fetch only the first occurrence of the document number, not all of the detail lines within the document.

Business views that include a primary table that contains any of the following columns, which are used for currency support and security, might cause the Select Distinct feature to display duplicate values:

Column	Description
CO	Company
CRCD	Currency Code - From
CRDC	Currency Code - To
CRCX	Currency Code - Denominated In
CRCA	Currency Code - A/B Amounts
LT	Ledger Type
AID	Account ID
MCU	Business Unit
KCOO	Order Company (Company Code)
EMCU	Business Unit Header
MMCU	Branch
AN8	Address Number

Example: Select Distinct Feature

The business view that is used for this example, Event Detail Business View (V98EVDTL), uses the primary index of the primary table, F89EVDTL (Event Detail File), by default. The primary index of a JD Edwards EnterpriseOne table must be unique. A unique primary index ensures that the system does not return duplicate values when the business view query is generated. However, JD Edwards EnterpriseOne Business View Design Aid enables you to select any other index of the primary table when you process the business view.

These steps illustrate how the Select Distinct feature works:

1. In JD Edwards EnterpriseOne Business View Design Aid, select the primary table.
2. From the Table menu, select Change Index to change the primary table index.

Change Index is available only for the primary table.

The system displays a warning indicating that the selected column list will be changed.

3. Click Yes to continue.

The Available Indices form appears. The first edit field on the form displays the current index of the table that is used by the business view. The default is the primary index.

4. For this example, select **Key by Formtyp, Evttype, Obj** from Available Indices, and click OK.

The Table Joins form and the Selected Columns form reflect the keys of the new index.

5. Save the changes and quit JD Edwards EnterpriseOne Business View Design Aid.

If you run an application that uses the V98EVDTL business view with Select Distinct disabled and the changed business view index (Key by Formtyp, Evtyp, Obj), the generated SQL statement is:

```
SELECT EDOBJTYPE, EDEVTYPE, EDFORMTYPE FROM PVC. F98EVDTL
```

Using this example, you might now have 281 rows of data from table F98EVDTL.

6. Reopen the V98EVDTL business view.
7. From the File menu, select Select Distinct.
8. Select Change Index to select the **Key by Formtyp, Evtyp, Obj** index from Available Indices, and then click OK.
9. Save the business view, and quit JD Edwards EnterpriseOne Business View Design Aid.

You might need to quit the software and sign in again. The software stores the business view in cache memory. Even though you change a business view, the previous business view runs until it is cleared from cache.

Generate and rerun the same application using the V98EVDTL business view with Select Distinct activated. The generated SQL statement is now:

```
SELECT DISTINCT EDOBJTYPE, EDEVTYPE, EDFORMTYPE FROM PVC. F98EVDTL_Continue2
```

Using this example, you might now have only 53 rows of data from table F98EVDTL.

Table Joins

Create table joins in business views to access data from multiple tables in a single application.

You typically use table joins for forms that are not input-capable, such as find browse forms, and reports. You do not usually use joins for forms that update and add to the database. When you are updating the database, the relationship between the records must be precise. If you must use a table join for an input-capable form, only use a join where the relationship between the two tables is simple.

If a business view uses multiple tables, link the tables by establishing joins between columns in those tables. The links define how rows from one table correspond to rows in another table.

When you join a column in one table to a column in another table, both columns must be of the same data type. You can use the Object Properties form to view attributes for a column to determine whether you can use it in a join. The Object Properties form displays the attributes of the data item that you have highlighted on the Selected Columns form.

Review each table and determine how the data in one table is related to the data in the other tables. You might need to add columns or build new indices in a table, or even create new tables. If you build new indices, consider your business needs carefully before you do so.

Note: To ensure maximum performance in applications, use these guidelines for the number of tables joined in a business view:

- Fifteen tables if all joins are simple joins.
- Fifteen tables if any of the joins is an outer join or in the event of a table union.

To join columns in a table join business view, use the mouse cursor to draw a line from a column in the primary table to the associated column in a secondary table. When you click the line that you drew, you can define the join by selecting a join type and an operator from the Join menu. These menu options are not available until you have clicked the line joining the columns.

The default join type is simple, and the default operator is equal. Available operators are:

- Equal (=)
- Not Equal (<>)
- Less than (<)
- Greater than (>)
- Less than or equal (<=)
- Greater than or equal (>=)

Table Unions

Use table unions to pull rows from tables that have the same structure. Table unions pull rows that exist in both tables. The Union option is available only if the rows in one table are also included in the other table.

Union All retrieves all the rows, even the duplicate rows, from the primary and secondary tables.

Creating Business Views

This section discusses how to:

- Add business views.
- Select tables for business views.
- Select data items for business views.
- Use Select Distinct.
- Create table joins.
- Create table unions.

Forms Used to Add Business Views

Form Name	Form ID	Navigation	Usage
Object Management Workbench	W98220A	EnterpriseOne Life Cycle Tools, Application Development (GH902), Object Management, Object Management Workbench	Select and view objects that are included in projects, and access the JD Edwards EnterpriseOne design tools.
Add EnterpriseOne Object to the Project	W98220C	Click the Objects node of a project, and click Add on	Add a new object to a project.

Form Name	Form ID	Navigation	Usage
		the Object Management Workbench form.	
Add Object	W9861AF	Select Business View, and click OK on the Add EnterpriseOne Object to the Project form.	Add business views.
Business View Design Aid	W9860AL	Complete the object information, and click OK on the Add Object form.	Access Business View Design Aid, and create a type definition.

Adding Business Views

Access the Add Object form.

Object Name

Enter a unique name for the business view. Use the recommended naming convention for naming JD Edwards EnterpriseOne objects.

Description

Enter a meaningful description of the business view.

Product Code

Select a user-defined code (UDC) (98/SY) from the range of values that are reserved for clients (55–59), or for business partners (L00 through L99, M00 through M99, and P00 through P99).

Product System Code

Select a UDC (98/SY) that represents the JD Edwards EnterpriseOne system where the data is used. This value is used for reporting and for description override purposes. Example values include:

- 01:** JD Edwards EnterpriseOne Address Book
- 03B:** JD Edwards EnterpriseOne Accounts Receivable
- 04:** JD Edwards EnterpriseOne Accounts Payable
- 09:** JD Edwards EnterpriseOne General Accounting
- 11:** JD Edwards EnterpriseOne Multicurrency

Object Use

Select a UDC (98/FU) that indicates the use of the object. For example, the object might be used to create a program, a master file, or a transaction journal. The value 300 represents business views.

Object Type

Displays an abbreviation that identifies the type of object that is being created. The object type for a business view is BSVW. This field is populated by the system based on the type of object that you selected on the Add Object form.

Text Search

Select this option to indicate that the business view is used by the runtime engine during a text search. When designing the business view, you must also add at least one GT (general text) data structure to the business view so that the runtime engine can use it in text searches.

Selecting Tables for Business Views

Access the JD Edwards Business View Design Aid form.

1. On the Design Tools tab, click Start the Business View Design Aid.
2. On the Available Tables form, use the query by example (QBE) line to search for an appropriate table.
3. Select one or more tables, and drag them to the Table Joins form.

This form is called Table Joins regardless of whether you are joining multiple tables or working on a single table.

4. If more than one table is selected, double-click the title bar of the appropriate table to designate it as the primary table.

If the business view contains multiple tables, the system automatically designates the first table that is added to the Table Joins form as the primary table. A crown icon appears in the upper-left corner of the primary table. If a business view contains only one table, that table is the primary table by default.

Note: To delete a table from a business view, select the table and select Delete from the Table menu. You can also right-click the table and select Delete from the pop-up menu.

Selecting Data Items for Business Views

Access the JD Edwards Business View Design Aid form.

1. On the Table Joins form, double-click the data items to include in the business view.

Selected data items appear with a check mark on the Table Joins form. As you select each data item, the system displays it on the Selected Columns form.

2. To remove data items from a business view, double-click the data item either on the Table Joins form or on the Selected Columns form.

Using Select Distinct

Access the JD Edwards Business View Design Aid form.

1. Select the primary table of the business view.
2. From the Table menu, select Distinct Mode.
3. From the Table menu, select Change Index.

This option changes the index of the primary table to a non-unique index.

Creating Table Joins

Access the JD Edwards Business View Design Aid form.

1. On the Tables Joins form, click and draw a line that connects a column in the primary table to an associated column in a secondary table.

Although the column names do not have to be the same, the attributes for Data Type and Decimals must be identical before you can create a table join between two columns. To determine whether data items are candidates for a join, click a data item on the Table Joins form and view the data item attributes that are displayed on the Object Properties form.

2. Click the line that joins the two columns.

Both fields are highlighted.

3. From the Join menu, select Types, and then select an appropriate join type.

Simple is the default join type.

4. From the Join menu, select Operators, and then select an appropriate operator.

Equal is the default join operator.

5. To delete a join, click the line that connects the two fields, and then select Delete from the Join menu.

You can also right-click the join and select Delete from the pop-up menu.

Creating Table Unions

Access the JD Edwards Business View Design Aid form.

1. From the Table menu, select either Union Mode or Union All Mode.

You can also click the Union or Union All button on the toolbar.

The Union and Union All features are available only if all columns in one table also reside in the other table.

2. Select the tables for which you want to create a table union.

Creating a Distinct Union All Business View

Access the JD Edwards Business View Design Aid form.

1. From the Table menu, select Union All Mode.

You can also click the Union All button on the toolbar.

2. From the Table menu, select Distinct Mode.

You can also click the Distinct button on the toolbar. The Distinct Union All Mode feature is available only if all columns in one table also reside in the other table.

3. Select the tables for the business view.

Creating Business Views in Web Object Management Workbench (Release 9.2.8)

Starting with Tools Release 9.2.8, you can create business views in Web Object Management Workbench (Web OMW).

This section discusses how to:

- Add business views.
- Select tables for business views.
- Select data items for business views.
- Use Select Distinct.
- Create table joins.
- Create table unions.

Note: [Click here to view a recording of this feature.](#)

Note: [Click here to view an OBE of this feature.](#)

Forms Used to Add Business Views

Form Name	Form ID	Navigation	Usage
Object Management Workbench - Web	W98220WAC	EnterpriseOne Life Cycle Tools, Application Development (GH902), Object Management, Object Management Workbench - Web	Select and view objects that are included in projects and access the JD Edwards EnterpriseOne design tools.
Create EnterpriseOne Object	W98220WAB	Click the Objects node of a project and click Add in Object Management Workbench - Web form.	Add a new object to a project.
Add Object	W9861AWC	Select Business View and click OK in the Create EnterpriseOne Object form.	Add business views.
Business View Design	W98720WA	Complete the object information and click OK in the Add Object form.	Access Business View Design and create a type of definition.

Adding Business Views

Access the Add Object form.

Object Name

Enter a name for the business view. Use the recommended naming convention for naming JD Edwards EnterpriseOne objects.

Description

Enter a description of the business view.

Product Code

Select a user-defined code from (98/SY) UDC table. System code values from 55-59 are reserved for clients and L00 through L99, M00 through M99, and P00 through P99 are for business partners.

Product System Code

Select a UDC (98/SY) that represents the JD Edwards EnterpriseOne system where the data is used. This value is used for reporting and for description override purposes. Example values include:

- 01:** JD Edwards EnterpriseOne Address Book
- 03B:** JD Edwards EnterpriseOne Accounts Receivable
- 04:** JD Edwards EnterpriseOne Accounts Payable
- 09:** JD Edwards EnterpriseOne General Accounting
- 11:** JD Edwards EnterpriseOne Multicurrency

Object Use

Select a UDC (98/FU) that indicates the use of the object. For example, the object might be used to create a program, a master file, or a transaction journal. The value 300 represents business views.

Object Type

Displays an abbreviation that identifies the type of object that is being created. The object type for a business view is BSVW. The system populates this field based on the type of object that you select in the Add Object form.

Selecting Tables for Business Views

Access the JD Edwards Business View Design form.

1. In the Object grid, click the business view object name, or select the object node, from the **More Row Actions** drop-down menu, select **Design** to enter the Business View Design form.
2. The Business View Design form is in the **Join Mode** by default, but you can change to **Union Mode** or **Union All Mode** by selecting them from the Table/Column Selection.
3. In the **Available Tables** pane, use the query by example (QBE) line to search for an appropriate table.

4. Click the arrow located in the **Select** column to select a Table.

You can select one or more tables, the table you select will appear in the **Selected Table** pane.

Note: If more than one table is selected in **Join Mode**, you can't change to **Union Mode** or **Union All Mode**, but if you select more than one table in **Union Mode** or **Union All Mode**, you can change between them, but you cannot select the **Join Mode**.

5. If more than one table is selected, click the primary option for the appropriate table to designate it as the primary table.

If the business view contains multiple tables, the system automatically designates the first table that is added to the **Selected Table** pane as the primary table. A green dot appears in the **Primary** column of the table. If a business view contains only one table, that table is the primary table by default.

6. To delete a table from a business view, select the table and click **Delete** in the **Selected Table** pane.

Selecting Data Items for Business Views

Access the JD Edwards Business View Design form.

1. In the **Selected Columns** pane, select the data items to include in the business view. You can click **Select All** to select all the data items in the pane.

Selected data items appear with a check mark in the **Selected Columns** pane.

Note: Primary keys for the table are always selected by default for Join Business View, you can't remove them.

2. To remove data items from a business view, deselect the data item in the **Selected Columns** pane.

Using Select Distinct

Access the JD Edwards Business View Design form.

1. Select the primary table of the business view.
2. From the Table/Column Selection, select **Distinct**.

Creating Table Joins

Access the JD Edwards Business View Design form.

1. If you are in **Join Mode** and select more than one table, the **Table Joins** pane and **Column Joins** pane appears.
2. Click the **Add row** button in the **Table Joins** pane, a table join is added.

3. Select a table from the **Left Table** drop-down menu and select a table from the **Right Table** drop-down menu. The **Left Table** drop/down and **Right Table** drop/down contains the list of tables selected from **Selected Tables** pane. You can add up to 15 tables for a table join.

The selected data items for both the tables appear on the **Left Table** and **Right Table** tabs of the **Column Joins** form respectively.

Note: If a join already exists for the two selected tables, the system shows an error.

4. Select an appropriate join type from the **Join Type** drop-down menu.

Simple is the default join type.

5. To delete a table join, click **Delete** in the **Table Joins** pane.
6. Click **Add** in the **Column Join** form, a column join is added.
7. Select a column from the **Left Table** tab, the column is added as the **Left Column** of the join.

Although the column names do not have to be the same, the attributes for Data Type and Decimals must be identical before you can create a table join between two columns.

8. Select a column from the **Right Table** tab, the column is added as the **Right Column** of the join.

Select an appropriate operator from the **Join Operator** drop-down menu. *Equal* is the default join operator.

9. To delete a column join, click **Delete** in the **Column Joins** form. If you add more data items from the **Selected Columns** pane to the **Left Table** and **Right Table** tab, click **Refresh** to save the changes.

Note: If you click **Refresh**, it will remove unsaved column joins.

Creating Table Unions

Access the JD Edwards Business View Design form.

1. From the Table/Column Selection, select either **Union Mode** or **Union All Mode**.

The Union and Union All features are available only if all columns in one table also reside in the other table.

2. Click **Yes** in the Business View Design Aid: Union/Union All Mode window.
3. Select the tables for which you want to create a table union.
4. If the business view contains multiple tables, the system automatically designates the first table that is added to the **Selected Table** pane as the primary table.
5. The tables you select will appear in the **Select Columns** pane.
6. Select the data items you want from the primary table. You can't choose data items from the other tables. If you select **Only Selected Columns**, only the selected data items are displayed. You can use the **Select All** to select all the data items from the primary table.

Creating a Distinct Union All Business View

Access the JD Edwards Business View Design form.

1. From the Table/Column Selection, select **Union All Mode**.
2. From the Table/Column Selection, select **Distinct**.

The Distinct Union All Mode feature is available only if all columns in one table also reside in the other table.

3. Select the tables for the business view.

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