

FileMaker Inc. Database Design Report XML Output Grammar

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About the Grammar

This document defines the XML grammar FileMaker Developer uses to create XML formatted Database Design Reports. Refer to this grammar for proper construction of XML tags, for example, if you want to create a custom XSL document. For more information about Database Design Report, see the FileMaker Developer onscreen Help.

Note UPPERCASE values (for example, SUMMARY) must be entered exactly as shown.

Table 1: Summary Tags

Tag Name	Value	Description
<Summary>	Empty	The top most parent node
<Summary><XMLFileType>	SUMMARY	Stores the type of the XML report file. This value is used by the XSL file to determine if we are in summary mode or report mode
<Summary><CreationDate>	Any text string	Contains the creation date of the report
<Summary><CreationTime>	Any text string	Contains the creation time of the report
<Summary><File>	Empty	
<Summary><File><Name>	Any text string	
<Summary><File><XMLReportFile>	Any text string	Contains the XML detail report file name

Table 1: Summary Tags

Tag Name	Value	Description
<Summary><File><PasswordsCount>	Any numeric value	Shows the number of Passwords found in the database referenced under <Name> tag
<Summary><File><Table><FieldsCount>	Any numeric value	Shows the number of Fields found in the database/Table referenced under <Name> tag
<Summary><File><LayoutsCount>	Any numeric value	Shows the number of Layouts found in the database referenced under <Name> tag
<Summary><File><RelationshipsCount>	Any numeric value	Shows the number of Relationships found in the database referenced under <Name> tag
<Summary><File><ScriptsCount>	Any numeric value	Shows the number of Scripts found in the database referenced under <Name> tag
<Summary><File><ValueListsCount>	Any numeric value	Shows the number of ValueLists found in the database referenced under <Name> tag

[Top](#)**Table 2: General Tags**

Tag Name	Value	Description
<File>	Empty	The top most parent node
<File><Name>	Any valid filename	Stores the name of the table that is being documented
<File><XMLFileType>	REPORT	Stores the type of the XML report file. This value is used by the XSL file to determine if we are in summary mode or report mode
<File><SummaryLink>	Any valid xml file	This value is used as a hyperlink so we can get to the summary overview report from any report file

Table 2: General Tags

Tag Name	Value	Description
<File><CreationDate>	Any text string	Contains the creation date of the report
<File><CreationTime>	Any text string	Contains the creation time of the report

[Top](#)**Table 3: Table Tags**

Tag Name	Value	Description
<File><Table>	Empty	Table node (mainly a place holder for future use)
<File><Table><Name>	Same as <File><Name>	To be forward compatible
<File><Table><ID>	1	To be forward compatible

[Top](#)**Table 4: Field Tags**

Tag Name	Value	Description
<File><Table><FieldCatalog>	Empty	The top most parent node for all fields info
<File><Table><FieldCatalog><Field>	Empty	The top most node for the current field info
<File><Table><FieldCatalog><Field><Name>	Any value	Stores the name of the field
<File><Table><FieldCatalog><Field><ID>	Same as FieldIDs() calc function	Stores the id of the field
<File><Table><FieldCatalog><Field><DataType>	Can have one of the following values:	
	TEXT	
	NUMBER	
	DATE	
	TIME	
	BINARY_DATA	
	FURIGANA	This is the data type of the field

Table 4: Field Tags

Tag Name	Value	Description
<File><Table><FieldCatalog><Field><FieldType>	Can have one of the following values:	
	EDITABLE	
	CALCULATED	
	SUMMARY	Contains the nondata type of the field
<File><Table><FieldCatalog><Field><AutoEnterOptions>	Empty	The top most parent for all field AutoEnter Options. If no AutoEnter options were set, <AutoEnterOptions> and all its children nodes will not get generated.
<File><Table><FieldCatalog><Field><AutoEnterOptions><EntryType>	Can have one of the following values:	
	CREATION_TIME	
	CREATION_DATE	
	MODIFICATION_DATE	
	MODIFICATION_TIME	
	CREATOR_NAME	
	MODIFIER_NAME	
	SERIAL_NUMBER	
	PREVIOUS_DATA	
CONSTANT_DATA	Auto enter type	
<File><Table><FieldCatalog><Field><AutoEnterOptions><SerialNumber>	Empty	Exists only if type is SERIAL_NUMBER
<File><Table><FieldCatalog><Field><AutoEnterOptions><SerialNumber><NextValue>	Any value	Serial value to be assigned to the field
<File><Table><FieldCatalog><Field><AutoEnterOptions><SerialNumber><Increment>	Any positive numeric value	The serial field will be incremented by this value for every newly added record
<File><Table><FieldCatalog><Field><AutoEnterOptions><ConstantData>	Any value	Exists only if type CONSTANT_DATA , contains the constant data to enter
<File><Table><FieldCatalog><Field><AutoEnterOptions><Calculation>	Empty	

Table 4: Field Tags

Tag Name	Value	Description
<File><Table><FieldCatalog><Field><AutoEnterOptions><Calculation><AlwaysEvaluate>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><AutoEnterOptions><Calculation><Description> <Description> and its children nodes are identical to those under Script Tags	Empty	See Script Tags for more details
<File><Table><FieldCatalog><Field><AutoEnterOptions><Lookup>	Empty	
<File><Table><FieldCatalog><Field><AutoEnterOptions><Lookup><Reference> Refer to Field References for more details on <Reference> node and its subnodes content	Empty	Reference to a field
<File><Table><FieldCatalog><Field><AutoEnterOptions><Lookup><NoMatchCopyOption>	Can have one of the following values:	
	DO_NOT_COPY	
	COPY_NEXT_LOWER	
	COPY_NEXT_HIGHER	
	USE_CONSTANT	
<File><Table><FieldCatalog><Field><AutoEnterOptions><Lookup><CopyConstantValue>	Any value	
<File><Table><FieldCatalog><Field><AutoEnterOptions><Lookup><CopyEmptyContent>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><AutoEnterOptions><AllowEditing>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><ValidationOptions>	Empty	The top most parent for all field Validation Options. If no validation options were set, <ValidationOptions> and all its children nodes will not get generated.

Table 4: Field Tags

Tag Name	Value	Description
<File><Table><FieldCatalog><Field><ValidationOptions><StrictDataType>	Can have one of the following values:	
	NUMERIC	
	FOUR_DIGIT_YEAR	
	TIME_OF_DAY	
<File><Table><FieldCatalog><Field><ValidationOptions><NotEmpty>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><ValidationOptions><Unique>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><ValidationOptions><Existing>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><ValidationOptions><ValueList>	Empty	
<File><Table><FieldCatalog><Field><ValidationOptions><ValueList><Reference> Refer to ValueList References for more details on <Reference> node and its subnodes content	Empty	Reference to a field
<File><Table><FieldCatalog><Field><ValidationOptions><Range>	Empty	If exists, Range option is checked
<File><Table><FieldCatalog><Field><ValidationOptions><Range><From>	Any value	
<File><Table><FieldCatalog><Field><ValidationOptions><Range><To>	Any value	
<File><Table><FieldCatalog><Field><ValidationOptions><Calculation>	Empty	
<File><Table><FieldCatalog><Field><ValidationOptions><Calculation><AlwaysValidate>	Can have one of the following values:	
	TRUE	
	FALSE	

Table 4: Field Tags

Tag Name	Value	Description
<File><Table><FieldCatalog><Field><ValidationOptions><Calculation><Description> <Description> and its children nodes are identical to those under Script Tags	Empty	See Script Tags for more details
<File><Table><FieldCatalog><Field><ValidationOptions><MaxDataLength>	Numeric value between 1 and 64000	This specifies the maximum number of characters for this field
<File><Table><FieldCatalog><Field><ValidationOptions><StrictValidation>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><ValidationOptions><ErrorMessage>	Any value	
<File><Table><FieldCatalog><Field><StorageOptions>	Empty	The top most parent for all field Storage Options
<File><Table><FieldCatalog><Field><StorageOptions><Repetitions>	Numeric value between 1 and 1000	1 means not repeating
<File><Table><FieldCatalog><Field><StorageOptions><Global>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><StorageOptions><Unstored>	Can have one of the following values:	
	TRUE	
	FALSE	Exists only for calcs
<File><Table><FieldCatalog><Field><StorageOptions><Indexed>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><Table><FieldCatalog><Field><StorageOptions><AutoIndex>	Can have one of the following values:	
	TRUE	
	FALSE	

Table 4: Field Tags

Tag Name	Value	Description
<File><Table><FieldCatalog><Field><StorageOptions> <IndexLanguage>	Can have one of the following values:	
	Catalan	
	Danish	
	Dutch	
	English	
	Finnish	
	Finnish (v w)	
	French	
	German	
	German (= a)	
	Icelandic	
	Italian	
	Norwegian	
	Portuguese	
	Spanish	
	Spanish (New Style)	
	Swedish	
	Swedish (v w)	
	Czech / Slovak	
	Hungarian	
	Polish	
Romanian		
Croatian		
Turkish		
Russian		
Ukrainian		
Greek		
ASCII		
<File><Table><FieldCatalog><Field><Calculation>	Empty	
<File><Table><FieldCatalog><Field><Calculation> <AlwaysEvaluate>	Can have one of the following values:	
	TRUE	
	FALSE	

Table 4: Field Tags

Tag Name	Value	Description
<p><File><Table><FieldCatalog><Field><Calculation> <Description></p> <p><Description> and its children nodes are identical to those under Script Tags</p>	Empty	See Script Tags for more details
<p><File><Table><FieldCatalog><Field><SummaryOptions></p>	Empty	
<p><File><Table><FieldCatalog><Field><SummaryOptions> <Operation></p>	<p>Can have one of the following values:</p> <p>TOTAL</p> <p>AVERAGE</p> <p>COUNT</p> <p>MINIMUM</p> <p>MAXIMUM</p> <p>STANDARD_DEVIATION</p> <p>FRACTION_TOTAL</p>	
<p><File><Table><FieldCatalog><Field><SummaryOptions> <Reference></p> <p>Refer to Field References for more details on <Reference> node and its subnodes content</p>	Empty	Reference to a Field
<p><File><Table><FieldCatalog><Field><SummaryOptions> <AdditionalOperation></p>	<p>Can have one of the following values:</p> <p>RUNNING_TOTAL</p> <p>WEIGHTED_AVERAGE</p> <p>RUNNING_COUNT</p> <p>BY_POPULATION</p> <p>SUB_TOTALED</p>	
<p><File><Table><FieldCatalog><Field><SummaryOptions> <SortedBy></p>	Empty	
<p><File><Table><FieldCatalog><Field><SummaryOptions> <SortedBy><Reference></p> <p>Refer to Field References for more details on <Reference> node and its subnodes content</p>	Empty	Reference to a field
<p><File><Table><FieldCatalog><Field><SummaryOptions> <WeightedBy></p>	Empty	

Table 4: Field Tags

Tag Name	Value	Description
<File><Table><FieldCatalog><Field><SummaryOptions> <WeightedBy><Reference> Refer to Field References for more details on <Reference> node and its subnodes content	Empty	Reference to a field

[Top](#)**Table 5: Relationship Tags**

Tag Name	Value	Description
<File><RelationCatalog>	Empty	The top most parent node for all Relations info
<File><RelationCatalog><Relation>	Empty	
<File><RelationCatalog><Relation><Name>	Any value	Store the name of the Relation that is being documented
<File><RelationCatalog><Relation><ID>	Same number design function returns	
<File><RelationCatalog><Relation><ParentField>	Empty	
<File><RelationCatalog><Relation><ParentField> <Reference> Refer to Field References for more details on <Reference> node and its subnodes content	Empty	Reference to a field
<File><RelationCatalog><Relation><ChildField>	Empty	
<File><RelationCatalog><Relation><ChildField> <Reference> Refer to Field References for more details on <Reference> node and its subnodes content	Empty	Reference to a field
<File><RelationCatalog><Relation><CascadeDelete>	Can have one of the following values:	
	TRUE	
	FALSE	

Table 5: Relationship Tags

Tag Name	Value	Description
<File><RelationCatalog><Relation><CascadeCreate>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><RelationCatalog><Relation><Sorted>	Can have one of the following values:	
	TRUE	
	FALSE	

[Top](#)**Table 6: ValueList Tags**

Tag Name	Value	Description
<File><ValueListCatalog>	Empty	The top most parent node for all ValueLists info
<File><ValueListCatalog><ValueList>	Empty	
<File><ValueListCatalog><ValueList><Name>	Any value	Store the name of the ValueList that is being documented
<File><ValueListCatalog><ValueList><ID>	Same number design function returns	Store the name of the ValueList that is being documented
<File><ValueListCatalog><ValueList><Source>	Can have one of the following values:	
	CUSTOM	
	LOCAL_FIELD	
	RELATED_FIELD	
	EXTERNAL_FIELD	
	EXTERNAL_VALUE LIST	
<File><ValueListCatalog><ValueList><CustomList>	Set if CUSTOM	

Table 6: ValueList Tags

Tag Name	Value	Description
<File><ValueListCatalog><ValueList><PrimaryField>	Set if LOCAL_FIELD, RELATED_FIELD, EXTERNAL_FIELD	
<File><ValueListCatalog><ValueList><PrimaryField> <Reference> Refer to Field References for more details on <Reference> node and its subnodes content	Empty	Reference to a field
<File><ValueListCatalog><ValueList><SecondaryField>	Set if also display checked in the UI	
<File><ValueListCatalog><ValueList><SecondaryField> <Reference> Refer to Field References for more details on <Reference> node and its subnodes content	Empty	Reference to a field
<File><ValueListCatalog><ValueList> <SortSecondaryField>	Set if also display checked. Can have one of the following values:	
	TRUE	
	FALSE	
<File><ValueListCatalog><ValueList><ValueList>	Set if EXTERNAL_VALUE LIST	
<File><ValueListCatalog><ValueList><ValueList> <Reference> Refer to ValueList References for more details on <Reference> node and its subnodes content	Empty	Reference to a ValueList. This is a case where a ValueList depends on another ValueList

[Top](#)**Table 7:** Layout Tags

Tag Name	Value	Description
<File><LayoutCatalog>	Empty	The top most parent node for all Layouts info
<File><LayoutCatalog><Layout>	Empty	

Table 7: Layout Tags

Tag Name	Value	Description
<File><LayoutCatalog><Layout><Name>	Any value	Store the name of the layout that is being documented
<File><LayoutCatalog><Layout><ID>	ID of layout as returned by design function	
<File><LayoutCatalog><Layout><Object>	Empty	
<File><LayoutCatalog><Layout><Object><Name>	Empty	
<File><LayoutCatalog><Layout><Object><Type>	Can have one of the following values:	
	FIELD	
	BUTTON	
	FIELD_AND_BUTTON	
<File><LayoutCatalog><Layout><Object><FieldFormat>	Can have one of the following values:	
	TEXT_BOX	
	SCROLLABLE_TEXT_BOX	
	POPUP_LIST	
	POPUP_MENU	
	CHECK_BOXES	
	RADIO_BUTTONS	
<File><LayoutCatalog><Layout><Object><ValueList><Reference>	Will exist only if the current field format does reference/depend on a valuelist	
Refer to ValueList References for more details on <Reference> node and its subnodes content		
<File><LayoutCatalog><Layout><Object><ValueListFormat>	Can have one of the following values:	
	POPUP_LIST	
	POPUP_MENU	
	CHECK_BOXES	
	RADIO_BUTTONS	

Table 7: Layout Tags

Tag Name	Value	Description
<File><LayoutCatalog><Layout><Object><Reference> Refer to Field References for more details on <Reference> node and its subnodes content	Will exist only if the object is a field	
<File><LayoutCatalog><Layout><Object><AllowEditing>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><LayoutCatalog><Layout><Object><Command>	Any valid Script Step command	
<File><LayoutCatalog><Layout><Object><Description> <Description> and its children nodes are identical to those under Script Tags	Empty	See Script Tags for more details

[Top](#)**Table 8:** Script Tags

Tag Name	Value	Description
<File><ScriptCatalog>	Empty	The top most parent node for all scripts info
<File><ScriptCatalog><Script>	Empty	
<File><ScriptCatalog><Script><Name>	Any value	Store the name of the Script that is being documented
<File><ScriptCatalog><Script><ID>	ID returned by design function	
<File><ScriptCatalog><Script><Step>	Empty	
<File><ScriptCatalog><Script><Step><Command>	Any valid Script Step command	
<File><ScriptCatalog><Script><Step><Description>	Empty	
<File><ScriptCatalog><Script><Step><Description><Chunk>	Any value	
<File><ScriptCatalog><Script><Step><Description><Chunk><Reference>		This tag is generated only if <Chunk> content is a reference

Table 8: Script Tags

Tag Name	Value	Description
<p><File><ScriptCatalog><Script><Step><Description> <Chunk><Reference><Type></p> <p>Refer to Reference Tags for more details on <Reference> node and its subnodes content</p>	Can have one of the following values:	
	FUNCTION_REF	
	TABLE_REF	
	FIELD_REF	
	LAYOUT_REF	
	VALUELIST_REF	
	RELATIONSHIP_REF	
	SCRIPT_REF	Describes the content of <Chunk> node

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Table 9: Password Tags

Tag Name	Value	Description
<File><PasswordCatalog>	Empty	The top most parent node for all Passwords info
<File><PasswordCatalog><Password>	Empty	
<File><PasswordCatalog><Password><Name>	Any value	Store the name of the Password that is being documented
<File><PasswordCatalog><Password><Privileges>	Empty	
<p><File><PasswordCatalog><Password><Privileges> <MasterAccess></p>	Can have one of the following values:	
	TRUE	
	FALSE	
<p><File><PasswordCatalog><Password><Privileges> <BrowseRecords></p>	Can have one of the following values:	
	TRUE	
	FALSE	

Table 9: Password Tags

Tag Name	Value	Description
<p><File><PasswordCatalog><Password><Privileges> <BrowseRecords><Description></p> <p><Description> and its children nodes are identical to those under Script Tags</p>		See Script Tags for more details
<p><File><PasswordCatalog><Password><Privileges> <EditRecords></p>	Can have one of the following values:	
	TRUE	
	FALSE	
<p><File><PasswordCatalog><Password><Privileges> <EditRecords><Description></p> <p><Description> and its children nodes are identical to those under Script Tags</p>	Empty	See Script Tags for more details
<p><File><PasswordCatalog><Password><Privileges> <DeleteRecords></p>	Can have one of the following values:	
	TRUE	
	FALSE	
<p><File><PasswordCatalog><Password><Privileges> <DeleteRecords><Description></p> <p><Description> and its children nodes are identical to those under Script Tags</p>		See Script Tags for more details
<p><File><PasswordCatalog><Password><Privileges> <CreateRecords></p>	Can have one of the following values:	
	TRUE	
	FALSE	
<p><File><PasswordCatalog><Password><Privileges> <PrintRecords></p>	Can have one of the following values:	
	TRUE	
	FALSE	
<p><File><PasswordCatalog><Password><Privileges> <ExportRecords></p>	Can have one of the following values:	
	TRUE	
	FALSE	

Table 9: Password Tags

Tag Name	Value	Description
<File><PasswordCatalog><Password><Privileges><DesignLayouts>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><PasswordCatalog><Password><Privileges><EditScripts>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><PasswordCatalog><Password><Privileges><DefineValueLists>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><PasswordCatalog><Password><Privileges><ChangePassword>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><PasswordCatalog><Password><Privileges><Override>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><PasswordCatalog><Password><Privileges><IdleDisconnect>	Can have one of the following values:	
	TRUE	
	FALSE	
<File><PasswordCatalog><Password><Privileges><Menu>	Can have one of the following values:	
	NORMAL	
	EDITING_ONLY	
	NONE	

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Table 10: Reference Tags

Reference Type	Tags	<Type> Value
Field	<Reference> <Reference><Type> <Reference><Name> <Reference><ID> <Reference><TableName> <Reference><FileName> <Reference><RelationshipName> <Reference><Link>	FIELD_REF
ValueList	<Reference> <Reference><Type> <Reference><Name> <Reference><ID> <Reference><FileName> <Reference><Link>	VALUELIST_REF
Relationships	<Reference> <Reference><Type> <Reference><Name> <Reference><ID> <Reference><FileName> <Reference><Link>	RELATIONSHIP_REF
Scripts	<Reference> <Reference><Type> <Reference><Name> <Reference><ID> <Reference><FileName> <Reference><Link>	SCRIPT_REF
Layouts	<Reference> <Reference><Type> <Reference><Name> <Reference><ID> <Reference><FileName> <Reference><Link>	LAYOUT_REF
Files	<Reference> <Reference><Type> <Reference><Name> <Reference><Link>	TABLE_REF
Function	<Reference> <Reference><Type> <Reference><Name>	FUNCTION_REF