

## Data Compare XML Configuration File Reference

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<DataCompareCmdConfig>
  <LeftDatabase>
    <ConnectionName>string</ConnectionName>
    <OracleAuthentication>boolean</OracleAuthentication>
    <Username>string</Username>
    <Password>string</Password>
    <DatabaseSchema>string</DatabaseSchema>
    <ConnectionType>ConnectionTypes</ConnectionType>
    <Host>string</Host>
    <Port>int</Port>
    <Service>string</Service>
    <DataSource>string</DataSource>
    <DbPrivilege>DbPrivileges</DbPrivilege>
    <ConnectionTimeout>int</ConnectionTimeout>
    <CommandTimeout>int</CommandTimeout>
  </LeftDatabase>
  <RightDatabase>
    <ConnectionName>string</ConnectionName>
    <OracleAuthentication>boolean</OracleAuthentication>
    <Username>string</Username>
    <Password>string</Password>
    <DatabaseSchema>string</DatabaseSchema>
    <ConnectionType>ConnectionTypes</ConnectionType>
    <Host>string</Host>
    <Port>int</Port>
    <Service>string</Service>
    <DataSource>string</DataSource>
    <DbPrivilege>DbPrivileges</DbPrivilege>
    <ConnectionTimeout>int</ConnectionTimeout>
    <CommandTimeout>int</CommandTimeout>
  </RightDatabase>

```

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<DataCompareOptions>
  <CompareTables>boolean</CompareTables>
  <CompareViews>boolean</CompareViews>
  <DisableTriggers>boolean</DisableTriggers>
  <ForeignKeyAction>ForeignKeyActions</ForeignKeyAction>
  <GenerateDetailedLog>boolean</GenerateDetailedLog>
  <LogScriptExecution>boolean</LogScriptExecution>
  <ScriptExecutionLogFile>string</ScriptExecutionLogFile>
  <GenerateTransactionalScript>boolean</GenerateTransactionalScript>
  <IgnoreCharCase>boolean</IgnoreCharCase>
  <TrimSpaces>boolean</TrimSpaces>
  <PerformDependencyAnalysis>boolean</PerformDependencyAnalysis>
  <ReportEqualRows>boolean</ReportEqualRows>
  <SynchronizeDifferentRows>boolean</SynchronizeDifferentRows>
  <SynchronizeLeftRows>boolean</SynchronizeLeftRows>
  <SynchronizeRightRows>boolean</SynchronizeRightRows>
  <TransactionSize>int</TransactionSize>
  <RoundApproximateNumber>boolean</RoundApproximateNumber>
  <RoundPrecision>int</RoundPrecision>
</DataCompareOptions>

<CommandLineOptions>
  <ComparisonLogFile>string</ComparisonLogFile>
  <OverwriteComparisonLog>boolean</OverwriteComparisonLog>
  <ErrorLogName>string</ErrorLogName>
  <ErrorLogType>ErrorLogTypes</ErrorLogType>
  <QuietMode>boolean</QuietMode>
  <DataScriptFile>string</DataScriptFile>
  <DataLogFile>string</DataLogFile>
  <FileEncoding>Encodings</FileEncoding>
  <Direction>CompareDirections</Direction>
  <Synchronize>boolean</Synchronize>
  <TableMappingSchema>TableMappingSchemaTypes</TableMappingSchema>
</CommandLineOptions>

<TablesMappingRules>
  <NameMapping>NameMappingType</NameMapping>
</TablesMappingRules>
<ViewsMappingRules>
  <NameMapping>NameMappingType</NameMapping>
</ViewsMappingRules>

<TablePairs>Pairs</TablePairs>
<ViewPairs>Pairs</ViewPairs>

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<NameMappingType>
  <MappingRule>NameMappingRules</MappingRule>
  <IgnoreLeftName>string</IgnoreLeftName>
  <IgnoreRightName>string</IgnoreRightName>
</NameMappingType>

<NameMappingRules>ExactMatch|IgnorePrefix|IgnorePostfix<
/NameMappingRules>
<SchemaPairs>[1..*]SchemaPairType</SchemaPairs>
<SchemaPairType>
  <LeftSchema>string</LeftSchema>
  <RightSchema>string</RightSchema>
</SchemaPairType>

<Pairs>[0..*]Pair</Pairs>
<Pair>
  <LeftObject>TableOrView</LeftObject>
  <RightObject>TableOrView</RightObject>
  <Columns>Columns</Columns>
  <WhereClause>string</WhereClause>
  <Action>Actions</Action>
</Pair>
<TableOrView>
  <Key>DataKey</Key>
  <Name>string</Name>
</TableOrView>
<DataKey>
  <Name>string</Name>
  <Column>[1..*]string</Column>
</DataKey>
<Columns>
  <Action>Actions</Action>
  <ColumnPair>[1..*]ColumnPair</ColumnPair>
</Columns>
<Actions>Include|Exclude</Actions>
  <ColumnPair>
    <LeftColumn>string</LeftColumn>
    <RightColumn>string</RightColumn>
  </ColumnPair>

  <ConnectionTypes>Basic|TnsIdentifier|EasyConnect|ConnectDescriptor<
/ConnectionTypes>
  <DbPrivileges>Default|SysDb|SysOper</DbPrivileges>

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    <ForeignKeyActions>DisableAndEnable|DropAndCreate|None<
/ForeignKeyActions>
    <ErrorLogTypes>File|WindowsLog</ErrorLogTypes>
    <Encodings>Unicode|UTF7|UTF8|ASCII|ANSI</Encodings>
    <CompareDirections>LeftAsRight|RightAsLeft</CompareDirections>
    <TableMappingSchemaTypes>Auto|Custom</TableMappingSchemaTypes>

</DataCompareCmdConfig>

```

The main elements of xml schema are described in the following section:

Element	Description
DataCompareCmdConfig	Root element.
LeftDatabase, RightDatabase	The elements that specify the left and the right database that participate in the data comparison.
ConnectionName	Specifies the name of the SQL Server instance.
OracleAuthentication	If true, the connection uses Oracle authentication.
Username, Password	Define database credentials if the authentication is set to OracleAuthentication.
DatabaseSchema	Defines the schema that should be compared. If not specified, the schema associated with the connection will be used.
ConnectionType	Indicates the Oracle connection type: Basic, TnsIdentifier, EasyConnect or ConnectDescriptor.
Host	Defines the Oracle host name or IP. Host is considered when the connection type is "Basic".
Port	Defines the port number. If not specified, the default port 1521 will be used. Port is considered only when the connection type is "Basic".
Service	Defines the Oracle service name. Service name is considered only when the connection type is "Basic".

DataSource	Defines the connection string for the Oracle database. DataSource is considered only when the connection type is TnsIdentifier, EasyConnect or ConnectDescriptor.
DbPrivilege	Defines the privileges associated with the connection.
ConnectionTimeout	Defines the connection timeout in seconds, which the amount of time the command line waits before aborting a connection.
CommandTimeout	Defines the execution timeout of Oracle queries in seconds, which the amount of time the command line waits for a query to complete before aborting it.
CompareTables	Indicates whether the Oracle tables should be compared and synchronized.
CompareViews	Indicates whether Oracle views should be compared and synchronized.
DisableTriggers	Indicates whether the triggers should be disabled before executing the synchronization script.
ForeignKeyAction	Specifies the type of action on foreign keys that should be performed by synchronization script.
GenerateDetailedLog	Indicates whether the command line should generate a detailed synchronization log.
LogScriptExecution	Specifies whether the command line should save to a log file statements executed during the synchronization.
ScriptExecutionLogFile	Defines the file name of the execution log.
GenerateTransactionalScript	Indicates whether the synchronization script should be transactional.
IgnoreCharacterCase	Indicates whether the character chase should be ignored when comparing string columns.
TrimSpaces	Indicates whether the leading and trailing spaces should be ignored when comparing string columns.
PerformDependencyAnalysis	Specifies whether command line should analyze object dependencies (based on foreign key relationship) and order the synchronization script accordingly.
ReportEqualRows	Indicates whether the command line should keep the equal rows in the internal row collections. By default equal rows are discarded.

Synchronize DifferentRows	Indicates whether the rows that have been found different should be synchronized.
Synchronize LeftRows	Indicates whether the rows found on the left database should be synchronized.
Synchronize RightRows	Indicates whether the rows found on the right database should be synchronized.
TransactionSize	Defines the max size of the Oracle transaction.
RoundApproximateNumber	Indicates whether approximate should be rounding to a specified precision and then compared.
RoundPrecision	Defines the rounding precision for approximate data types such as real and float.
ComparisonLogFile	Defines a file name for data compare operational messages.
OverwriteComparisonLog	Indicates whether the command line should overwrite all log files. By default command line appends to log file.
ErrorLogName	Defines a file name for the error log.
ErrorLogType	Indicates whether errors should be logged to file or Windows event log.
QuietMode	Indicates the quiet mode which suppresses messages from being displayed on the console.
DataScriptFile	Defines a file name for the data synchronization script.
DataLogFile	Defines a file name for the data synchronization log.
FileEncoding	Defines the encoding of all output file.
Direction	Indicates the "direction" of synchronization whether the left schema is synchronized with the right schema or vice versa.
Synchronize	Indicates whether the command line should synchronize the data. By default, data is compared, but not synchronized.
TableMappingSchema	Defines the mapping type of schema objects: Auto or Custom.
TablesMappingRules	Defines the mapping rules for tables.

ViewsMappingRules	Defines the mapping rules for views.
NameMapping	Defines the mapping rule that applies to objects name.
TablePairs	Defines that pair of tables that should be mapped manually. Manual pairs require the option TableMappingSchema to be Custom.
ViewPairs	Defines that pair of views that should be mapped manually. Manual pairs require the option TableMappingSchema to be Custom.

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