

## Data Compare XML Configuration File Reference

```

<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>

```

```

<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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