SQL Data Compare XML Configuration File Reference

```
<SqlDataCompareCmdConfig>
     <LeftDatabase>
          <SqlServer>string</SqlServer>
          <DatabaseName>string</DatabaseName>
          <Username>string</Username>
          <Password>string</Password>
          <TrustedConnection>boolean</TrustedConnection>
          <ConnectionTimeout>int</ConnectionTimeout>
          <CommandTimeout>int</CommandTimeout>
     </LeftDatabase>
     <RightDatabase>
          <SqlServer>string</SqlServer>
          <DatabaseName>string</DatabaseName>
          <Username>string</Username>
          <Password>string</Password>
          <TrustedConnection>boolean</TrustedConnection>
          <ConnectionTimeout>int</ConnectionTimeout>
          <CommandTimeout>int</CommandTimeout>
     </RightDatabase>
     <DataCompareOptions>
          <CompareTables>boolean</CompareTables>
          <CompareMemoryTables>boolean</CompareMemoryTables>
          <CompareColumnStoreTables>boolean</CompareColumnStoreTables>
          <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>
          <BatchSize>int</BatchSize>
          <IgnoreDatabaseCollation>boolean</IgnoreDatabaseCollation>
          <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>
          <SchemaMapping>SchemaMappingType</SchemaMapping>
          <TypeMapping>TypeMappingType</TypeMapping>
     </TablesMappingRules>
     <ViewsMappingRules>
          <NameMapping>NameMappingType</NameMapping>
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          <TypeMapping>TypeMappingType</TypeMapping>
     </ViewsMappingRules>
     <TablePairs>Pairs</TablePairs>
     <ViewPairs>Pairs</ViewPairs>
     <NameMappingType>
          <MappingRule>NameMappingRules</MappingRule>
          <IgnoreLeftName>string</IgnoreLeftName>
          <IgnoreRightName>string</IgnoreRightName>
     </NameMappingType>
     <SchemaMappingType>
          <MappingRule>SchemaMappingRules</MappingRule>
          <SchemaPairs>SchemaPairs</SchemaPairs>
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     <TypeMappingType>
          <MappingRule>TypeMappingRules</MappingRule>
     </TypeMappingType>
     <NameMappingRules>ExactMatch|IgnorePrefix|IgnorePostfix<
/NameMappingRules>
     <SchemaMappingRules>ExactMatch|IgnoreSchema|Custom<
/SchemaMappingRules>
     <SchemaPairs>[1..*]SchemaPairType</SchemaPairs>
     <SchemaPairType>
          <LeftSchema>string</LeftSchema>
          <RightSchema>string</RightSchema>
     </SchemaPairType>
     <TypeMappingRules>ByDefinition|ByCompatibilityMatrix<
/TypeMappingRules>
     <Pairs>[0..*]Pair</Pairs>
     <Pair>
          <LeftObject>TableOrView</LeftObject>
```

```
          <RightObject>TableOrView</RightObject>
          <Columns>Columns</Columns>
          <WhereClause>string</WhereClause>
          <LeftWhereClause>string</LeftWhereClause>
          <RightWhereClause>string</RightWhereClause>
          <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>
     <ForeignKeyActions>DisableAndEnable|DropAndCreate|None<
/ForeignKeyActions>
     <ErrorLogTypes>File|WindowsLog</ErrorLogTypes>
     <Encodings>Unicode|UTF7|UTF8|ASCII|ANSI</Encodings>
    <CompareDirections>LeftAsRight|RightAsLeft</CompareDirections>
    <TableMappingSchemaTypes>Auto|Custom</TableMappingSchemaTypes>
</SqlDataCompareCmdConfig>
```

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

Element	Description
SqlDataCompareCmdConfig	Root element.
LeftDatabase, RightDatabase	The elements that specify the left and the right database that participate in the data comparison.
SqlServer	Defines the name of the SQL Server instance.
DatabaseName	Defines the database name.

Username, Password	Define database credentials.
TrustedConnection	Defines the connection type.
ConnectionTimeout	Defines the connection timeout in seconds, which the amount of time that command line waits before aborting a connection.
CommandTimeout	Defines the execution timeout of SQL queries in seconds, which the amount of time that command line waits for a query to complete before aborting it.
CompareTables	Indicates whether database tables should be compared and synchronized.
CompareMemoryTables	Indicates whether the memory tables supported by SQL 2014 should be compared and synchronized.
CompareColumnStoreTables	Indicates whether the columnstore tables supported by SQL 2014 should be compared and synchronized.
CompareViews	Indicates whether database views should be compared and synchronized.
DisableTriggers	Specifies the type of action on DML triggers that should be performed by 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 SQL statements executed during data synchronization.
ScriptExecutionLogFile	Defines the file name of the execution log.
GenerateTransactionalScript	Indicates whether the generated synchronization script should be transactional.
IgnoreCharCase	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 between them) 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.
SynchronizeDifferentRows	Indicates whether the rows that have been found different should be synchronized.
SynchronizeLeftRows	Indicates whether the rows found on the left database should be synchronized.
SynchronizeRightRows	Indicates whether the rows found on the right database should be synchronized.
TransactionSize	Defines the max size of SQL Server transaction that should be used when executing synchronization script.
BatchSize	Defines the max batch size that should be used when executing synchronization script.
IgnoreDatabaseCollation	Indicates whether collation should be ignored when comparing databases.
RoundApproximateNumber	Indicates whether approximate SQL Server types such as float and real should be rounding to a specified precision and then compared.
RoundPrecision	Defines the rounding precision for approximate data types such as real and float. Rounding effects only the comparison of approximate types, not the scripting of these types.
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 errors that might occur during data compare.
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 database is synchronized with the right database or vice versa.
Synchronize	Indicates whether the command line should synchronize databases. By default databases are only compared.
TableMappingSchema	Defines the mapping type of database objects whether is 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.
SchemaMapping	Defines the mapping rule that applies to objects schema (owner).
TypeMapping	Defines the mapping rule that applies to data types.
TablePairs	Defines that pair of tables that should be mapped manually. Manual pairs require the option TableMappingSchema to be set to Custom.
ViewPairs	Defines that pair of views that should be mapped manually. Manual pairs require the option TableMappingSchema to be set to Custom.

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