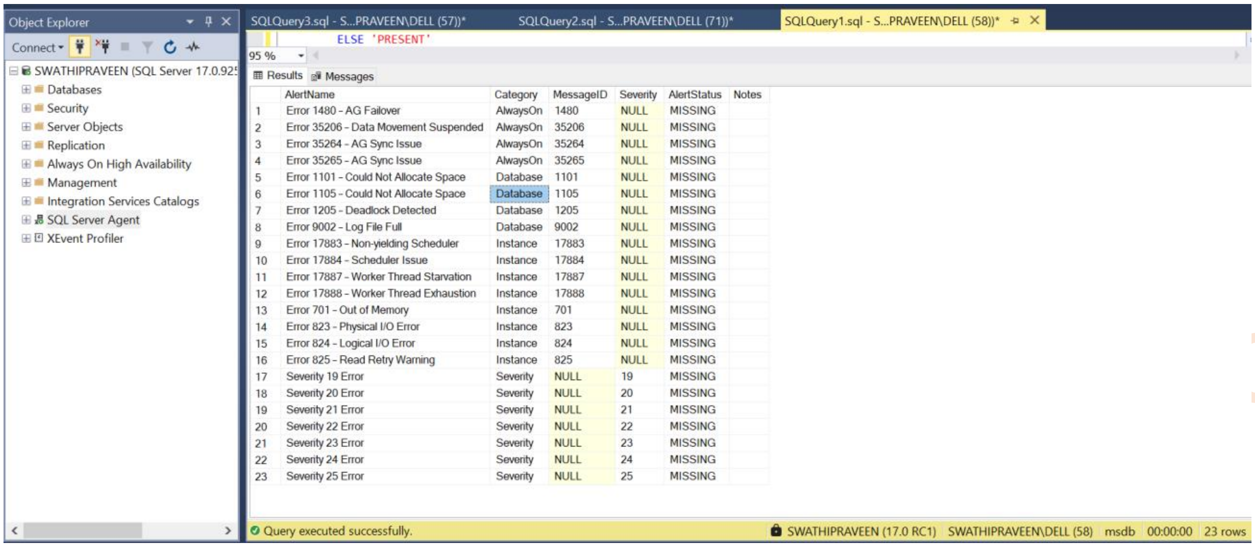
SQL Server Critical Alerts Verification Script

What the below given script does

- Lists all mandatory SQL Alerts
- Checks if each one exists in msdb.dbo.sysalerts
- Marks each alert ✓ PRESENT or ❌ MISSING
- Automatically detects if AlwaysOn is enabled and adjusts results
- Groups alerts by category (Severity, Instance, Database, AG)

Output Example

AlertName	Category	Status	Notes
Error 825 – Read Retry Warning	Instance	❌ MISSING	
Severity 24 Error	Severity	✓ PRESENT	
Error 1480 – AG Failover	AlwaysOn	Not Required	AG Disabled


Object Explorer
Connect ▾
SWATHIPRAVEEN (SQL Server 17.0.925
Databases
Security
Server Objects
Replication
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent
XEvent Profiler
SQLQuery3.sql - S...PRAVEEN\DELL (57))*
SQLQuery2.sql - S...PRAVEEN\DELL (71))*
SQLQuery1.sql - S...PRAVEEN\DELL (58))*
95 %
Results
Messages

```
ELSE 'PRESENT'
```

	AlertName	Category	MessageID	Severity	AlertStatus	Notes
1	Error 1480 – AG Failover	AlwaysOn	1480	NULL	MISSING	
2	Error 35206 – Data Movement Suspended	AlwaysOn	35206	NULL	MISSING	
3	Error 35264 – AG Sync Issue	AlwaysOn	35264	NULL	MISSING	
4	Error 35265 – AG Sync Issue	AlwaysOn	35265	NULL	MISSING	
5	Error 1101 – Could Not Allocate Space	Database	1101	NULL	MISSING	
6	Error 1105 – Could Not Allocate Space	Database	1105	NULL	MISSING	
7	Error 1205 – Deadlock Detected	Database	1205	NULL	MISSING	
8	Error 9002 – Log File Full	Database	9002	NULL	MISSING	
9	Error 17883 – Non-yielding Scheduler	Instance	17883	NULL	MISSING	
10	Error 17884 – Scheduler Issue	Instance	17884	NULL	MISSING	
11	Error 17887 – Worker Thread Starvation	Instance	17887	NULL	MISSING	
12	Error 17888 – Worker Thread Exhaustion	Instance	17888	NULL	MISSING	
13	Error 701 – Out of Memory	Instance	701	NULL	MISSING	
14	Error 823 – Physical I/O Error	Instance	823	NULL	MISSING	
15	Error 824 – Logical I/O Error	Instance	824	NULL	MISSING	
16	Error 825 – Read Retry Warning	Instance	825	NULL	MISSING	
17	Severity 19 Error	Severity	NULL	19	MISSING	
18	Severity 20 Error	Severity	NULL	20	MISSING	
19	Severity 21 Error	Severity	NULL	21	MISSING	
20	Severity 22 Error	Severity	NULL	22	MISSING	
21	Severity 23 Error	Severity	NULL	23	MISSING	
22	Severity 24 Error	Severity	NULL	24	MISSING	
23	Severity 25 Error	Severity	NULL	25	MISSING	

Query executed successfully. SWATHIPRAVEEN (17.0 RC1) SWATHIPRAVEEN\DELL (58) msdb 00:00:00 23 rows

/* SQL Alert Compliance Query */

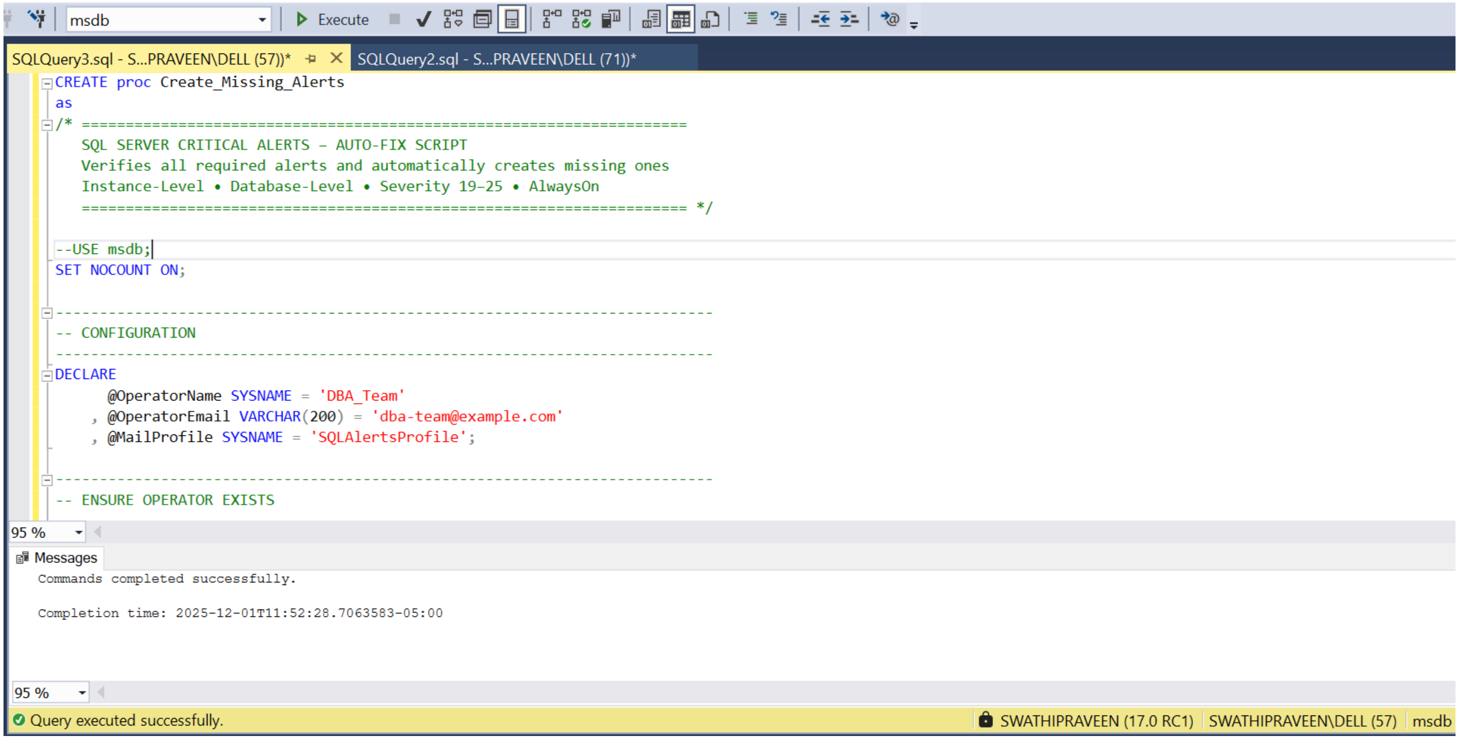
```
USE msdb;
SET NOCOUNT ON;

DECLARE @RequiredAlerts TABLE
(
    AlertName NVARCHAR(200),
    MessageID INT NULL,
    Severity INT NULL,
    Category NVARCHAR(50)
);

-- Severity Alerts
INSERT INTO @RequiredAlerts VALUES
('Severity 19 Error', NULL, 19, 'Severity'),
('Severity 20 Error', NULL, 20, 'Severity'),
('Severity 21 Error', NULL, 21, 'Severity'),
('Severity 22 Error', NULL, 22, 'Severity'),
('Severity 23 Error', NULL, 23, 'Severity'),
('Severity 24 Error', NULL, 24, 'Severity'),
('Severity 25 Error', NULL, 25, 'Severity');
```

```
-- Instance-Level Critical Errors
INSERT INTO @RequiredAlerts VALUES
('Error 823 – Physical I/O Error', 823, NULL, 'Instance'),
('Error 824 – Logical I/O Error', 824, NULL, 'Instance'),
('Error 825 – Read Retry Warning', 825, NULL, 'Instance'),
('Error 17883 – Non-yielding Scheduler', 17883, NULL, 'Instance'),
('Error 17884 – Scheduler Issue', 17884, NULL, 'Instance'),
('Error 17887 – Worker Thread Starvation', 17887, NULL, 'Instance'),
('Error 17888 – Worker Thread Exhaustion', 17888, NULL, 'Instance'),
('Error 701 – Out of Memory', 701, NULL, 'Instance');

-- Database-Level Alerts
INSERT INTO @RequiredAlerts VALUES
('Error 9002 – Log File Full', 9002, NULL, 'Database'),
('Error 1101 – Could Not Allocate Space', 1101, NULL, 'Database'),
('Error 1105 – Could Not Allocate Space', 1105, NULL, 'Database'),
('Error 1205 – Deadlock Detected', 1205, NULL, 'Database');

-- AlwaysOn / AG Alerts
INSERT INTO @RequiredAlerts VALUES
('Error 1480 – AG Failover', 1480, NULL, 'AlwaysOn'),
('Error 35206 – Data Movement Suspended', 35206, NULL, 'AlwaysOn'),
('Error 35264 – AG Sync Issue', 35264, NULL, 'AlwaysOn'),
('Error 35265 – AG Sync Issue', 35265, NULL, 'AlwaysOn');

-- Detect AlwaysOn
DECLARE @AGEnabled BIT = 0;
IF EXISTS (SELECT 1 FROM sys.dm_hadr_cluster)
  SET @AGEnabled = 1;

;WITH ExistingAlerts AS (
  SELECT
    name,
    message_id,
    severity
  FROM msdb.dbo.sysalerts
)
SELECT
   R.AlertName
  , R.Category
  , R.MessageID
  , R.Severity
  , CASE
    WHEN E.name IS NULL THEN 'MISSING'
    ELSE 'PRESENT'
   END AS AlertStatus
  , CASE
    WHEN R.Category = 'AlwaysOn' AND @AGEnabled = 0
      THEN 'Not Required (AG Disabled)'
    ELSE ''
   END AS Notes
FROM @RequiredAlerts R
LEFT JOIN ExistingAlerts E
  ON (R.MessageID = E.message_id OR R.Severity = E.severity)
ORDER BY
   CASE WHEN E.name IS NULL THEN 0 ELSE 1 END,
   R.Category, R.AlertName;
```

AUTO-FIXING SQL ALERTS SCRIPT
(Creates missing alerts + operator automatically)

Below is a Fully Automated T-SQL Script that:
✓ Verifies all critical SQL Alerts
✓ Automatically creates any missing alerts
✓ Recreates operator if missing
✓ Handles Instance + Database + Severity + AlwaysOn alerts
✓ Safe to run multiple times (idempotent)

Just run the script in msdb and your alerting system will be fully created.


msdb
Execute
SQLQuery3.sql - S...PRAVEEN\DELL (57))*
SQLQuery2.sql - S...PRAVEEN\DELL (71))*
95 %
Messages
95 %
Query executed successfully.
SWATHIPRAVEEN (17.0 RC1)
SWATHIPRAVEEN\DELL (57)
msdb

```
CREATE proc Create_Missing_Alerts
as
/* ====================================================================
   SQL SERVER CRITICAL ALERTS – AUTO-FIX SCRIPT
   Verifies all required alerts and automatically creates missing ones
   Instance-Level • Database-Level • Severity 19–25 • AlwaysOn
   ==================================================================== */

--USE msdb;
SET NOCOUNT ON;

------------------------------------------------------------------------
-- CONFIGURATION
------------------------------------------------------------------------
DECLARE
      @OperatorName SYSNAME = 'DBA_Team'
    , @OperatorEmail VARCHAR(200) = 'dba-team@example.com'
    , @MailProfile SYSNAME = 'SQLAlertsProfile';

------------------------------------------------------------------------
-- ENSURE OPERATOR EXISTS
```

```
Commands completed successfully.

Completion time: 2025-12-01T11:52:28.7063583-05:00
```

```
Use msdb
go
CREATE proc Create_Missing_Alerts
as
/* ====================================================================
  SQL SERVER CRITICAL ALERTS – AUTO-FIX SCRIPT
  Verifies all required alerts and automatically creates missing ones
  Instance-Level • Database-Level • Severity 19–25 • AlwaysOn
  ==================================================================== */

SET NOCOUNT ON;
------------------------------------------------------------------------
-- CONFIGURATION
------------------------------------------------------------------------
DECLARE
    @OperatorName SYSNAME = 'DBA_Team'
  , @OperatorEmail VARCHAR(200) = 'dba-team@example.com'
  , @MailProfile SYSNAME = 'SQLAlertsProfile';

------------------------------------------------------------------------
-- ENSURE OPERATOR EXISTS
```

```
----------------------------------------------------------------------------
IF NOT EXISTS (SELECT 1 FROM dbo.sysoperators WHERE name = @OperatorName)
BEGIN
   PRINT 'Creating operator: ' + @OperatorName;

   EXEC dbo.sp_add_operator
      @name = @OperatorName,
      @enabled = 1,
      @email_address = @OperatorEmail;
END
ELSE
BEGIN
   PRINT 'Operator already exists: ' + @OperatorName;
END

----------------------------------------------------------------------------
-- TEMP TABLE OF REQUIRED ALERTS
----------------------------------------------------------------------------
DECLARE @Alerts TABLE
(
   AlertName NVARCHAR(200),
   MessageID INT NULL,
   Severity INT NULL,
   Category NVARCHAR(50)
);

-- Severity Alerts (19–25)
INSERT INTO @Alerts VALUES
('Severity 19 Error', NULL, 19, 'Severity'),
('Severity 20 Error', NULL, 20, 'Severity'),
('Severity 21 Error', NULL, 21, 'Severity'),
('Severity 22 Error', NULL, 22, 'Severity'),
('Severity 23 Error', NULL, 23, 'Severity'),
('Severity 24 Error', NULL, 24, 'Severity'),
('Severity 25 Error', NULL, 25, 'Severity');

-- Instance Critical
INSERT INTO @Alerts VALUES
('Error 823 – Physical I/O Error', 823, NULL, 'Instance'),
('Error 824 – Logical I/O Error', 824, NULL, 'Instance'),
('Error 825 – Read Retry Warning', 825, NULL, 'Instance'),
('Error 17883 – Non-yielding Scheduler', 17883, NULL, 'Instance'),
('Error 17884 – Scheduler Issue', 17884, NULL, 'Instance'),
('Error 17887 – Worker Thread Starvation', 17887, NULL, 'Instance'),
('Error 17888 – Worker Thread Exhaustion', 17888, NULL, 'Instance'),
('Error 701 – Out of Memory', 701, NULL, 'Instance');

-- Database-Level
INSERT INTO @Alerts VALUES
('Error 9002 – Log File Full', 9002, NULL, 'Database'),
('Error 1101 – Could Not Allocate Space', 1101, NULL, 'Database'),
('Error 1105 – Could Not Allocate Space', 1105, NULL, 'Database'),
('Error 1205 – Deadlock Detected', 1205, NULL, 'Database');

-- AlwaysOn Alerts
INSERT INTO @Alerts VALUES
('Error 1480 – AG Failover', 1480, NULL, 'AlwaysOn'),
('Error 35206 – Data Movement Suspended', 35206, NULL, 'AlwaysOn'),
('Error 35264 – AG Sync Issue', 35264, NULL, 'AlwaysOn'),
('Error 35265 – AG Sync Issue', 35265, NULL, 'AlwaysOn');

---------------------------------------------------------------------------
-- DETECT AG AVAILABILITY
---------------------------------------------------------------------------
DECLARE @AGEnabled BIT = 0;

IF EXISTS (SELECT 1 FROM sys.dm_hadr_cluster)
  SET @AGEnabled = 1;

---------------------------------------------------------------------------
-- AUTO-CREATE MISSING ALERTS
---------------------------------------------------------------------------
DECLARE @AlertName NVARCHAR(200),
      @MessageID INT,
      @Severity INT,
      @Category NVARCHAR(50),
      @Exists INT;

DECLARE FixCursor CURSOR FOR
SELECT AlertName, MessageID, Severity, Category
FROM @Alerts;

OPEN FixCursor;
FETCH NEXT FROM FixCursor INTO @AlertName, @MessageID, @Severity, @Category;

WHILE @@FETCH_STATUS = 0
BEGIN
  -- Skip AlwaysOn alerts when AG is disabled
  IF (@Category = 'AlwaysOn' AND @AGEnabled = 0)
  BEGIN
    PRINT 'Skipping (AG disabled): ' + @AlertName;
    FETCH NEXT FROM FixCursor INTO @AlertName, @MessageID, @Severity, @Category;
    CONTINUE;
  END

  SELECT @Exists = COUNT(*)
  FROM dbo.sysalerts
  WHERE name = @AlertName;

  IF @Exists = 0
  BEGIN
    PRINT 'Creating missing alert: ' + @AlertName;

    EXEC dbo.sp_add_alert
       @name = @AlertName,
       @message_id = @MessageID,
       @severity = @Severity,
       @include_event_description_in = 1;

    EXEC dbo.sp_add_notification
       @alert_name = @AlertName,
       @operator_name = @OperatorName,
       @notification_method = 1;  -- Email
  END
  ELSE
  BEGIN
    PRINT 'Alert already exists: ' + @AlertName;
  END
```

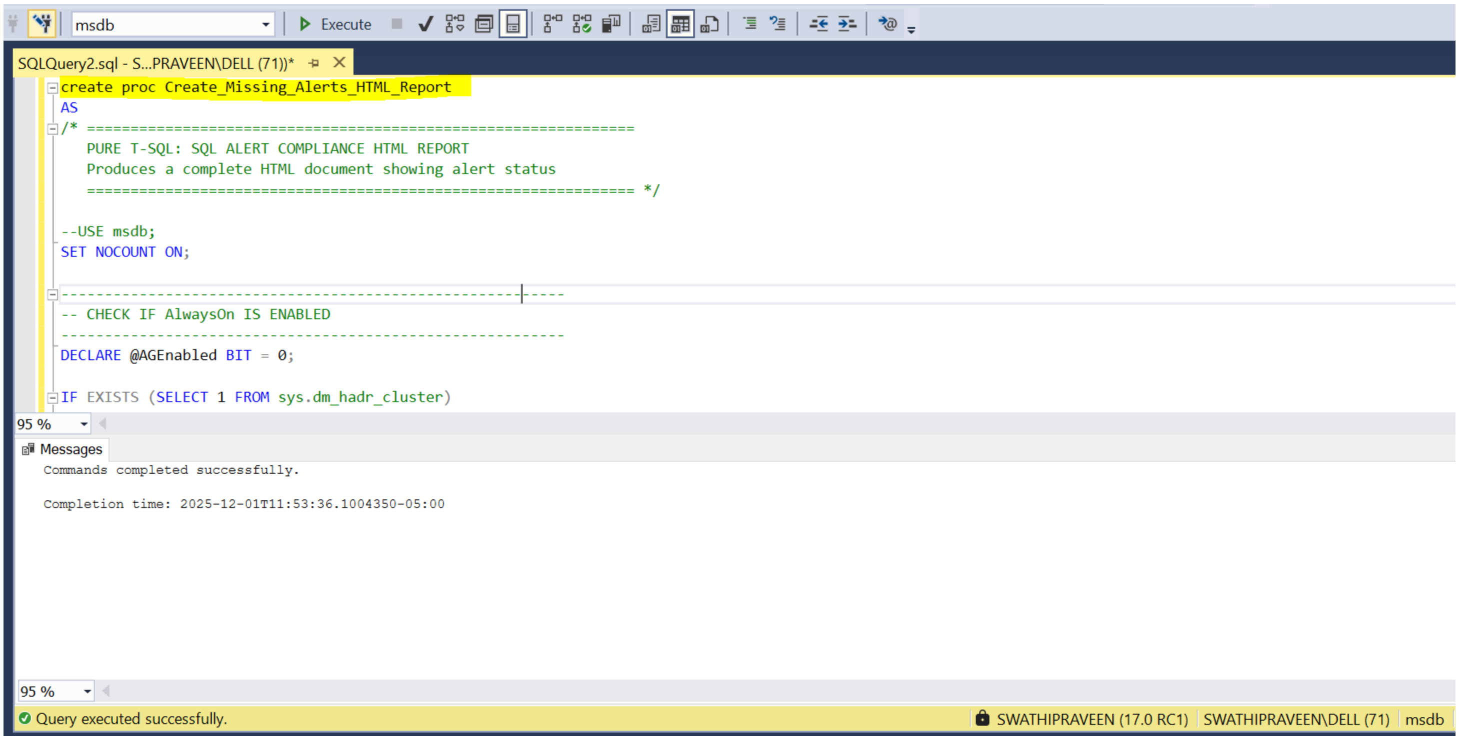
```
    FETCH NEXT FROM FixCursor INTO @AlertName, @MessageID, @Severity, @Category;
END

CLOSE FixCursor;
DEALLOCATE FixCursor;

PRINT '================================================';
PRINT '✓ ALL CRITICAL ALERTS VERIFIED AND FIXED';
PRINT '================================================';
```

Pure T-SQL HTML Alert Compliance Report (This Produces a complete HTML document showing alert status)

Below is a **pure T-SQL HTML report generator** that produces a **single self-contained HTML table** showing:

- Required Alerts (Severity + Instance + DB + AlwaysOn)
- Whether each alert **exists**
- Whether it has an **email notification assigned**
- Whether AlwaysOn alerts were **skipped because AG not enabled**
- Which alerts are **missing**

No CLR, no external tools — just T-SQL using FOR XML to generate HTML.



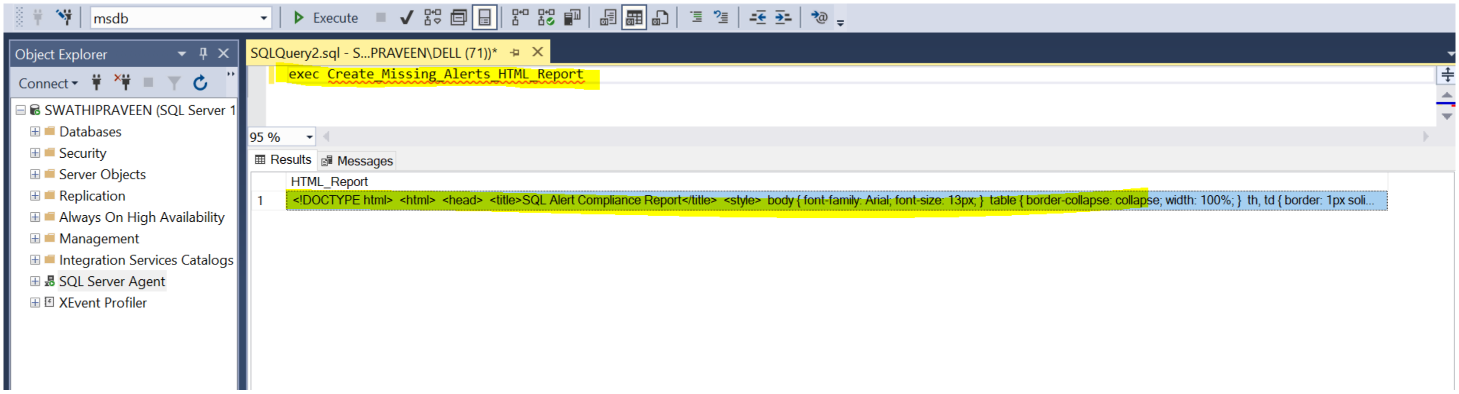
```
create proc Create_Missing_Alerts_HTML_Report
AS
/* ==============================================================
   PURE T-SQL: SQL ALERT COMPLIANCE HTML REPORT
   Produces a complete HTML document showing alert status
   ============================================================== */

--USE msdb;
SET NOCOUNT ON;

-----------------------------------------------------------
-- CHECK IF AlwaysOn IS ENABLED
-----------------------------------------------------------
DECLARE @AGEnabled BIT = 0;

IF EXISTS (SELECT 1 FROM sys.dm_hadr_cluster)
```

```
Commands completed successfully.

Completion time: 2025-12-01T11:53:36.1004350-05:00
```

Query executed successfully. SWATHIPRAVEEN (17.0 RC1) | SWATHIPRAVEEN\DELL (71) | msdb

```
Use msdb
go
create proc Create_Missing_Alerts_HTML_Report
AS
/* ==============================================================
   PURE T-SQL: SQL ALERT COMPLIANCE HTML REPORT
   Produces a complete HTML document showing alert status
   ============================================================== */

--USE msdb;
SET NOCOUNT ON;

-----------------------------------------------------------
-- CHECK IF AlwaysOn IS ENABLED
-----------------------------------------------------------
DECLARE @AGEnabled BIT = 0;

IF EXISTS (SELECT 1 FROM sys.dm_hadr_cluster)
    SET @AGEnabled = 1;

-----------------------------------------------------------
-- REQUIRED ALERT DEFINITIONS
-----------------------------------------------------------
```

```
DECLARE @RequiredAlerts TABLE
(
  AlertName NVARCHAR(200),
  MessageID INT NULL,
  Severity INT NULL,
  Category NVARCHAR(50)
);

-- Severity 19–25
INSERT INTO @RequiredAlerts VALUES
('Severity 19 Error', NULL, 19, 'Severity'),
('Severity 20 Error', NULL, 20, 'Severity'),
('Severity 21 Error', NULL, 21, 'Severity'),
('Severity 22 Error', NULL, 22, 'Severity'),
('Severity 23 Error', NULL, 23, 'Severity'),
('Severity 24 Error', NULL, 24, 'Severity'),
('Severity 25 Error', NULL, 25, 'Severity');

-- Instance Critical
INSERT INTO @RequiredAlerts VALUES
('Error 823 – Physical I/O Error', 823, NULL, 'Instance'),
('Error 824 – Logical I/O Error', 824, NULL, 'Instance'),
('Error 825 – Read Retry Warning', 825, NULL, 'Instance'),
('Error 17883 – Non-yielding Scheduler', 17883, NULL, 'Instance'),
('Error 17884 – Scheduler Issue', 17884, NULL, 'Instance'),
('Error 17887 – Worker Thread Starvation', 17887, NULL, 'Instance'),
('Error 17888 – Worker Thread Exhaustion', 17888, NULL, 'Instance'),
('Error 701 – Out of Memory', 701, NULL, 'Instance');

-- Database Alerts
INSERT INTO @RequiredAlerts VALUES
('Error 9002 – Log File Full', 9002, NULL, 'Database'),
('Error 1101 – Could Not Allocate Space', 1101, NULL, 'Database'),
('Error 1105 – Could Not Allocate Space', 1105, NULL, 'Database'),
('Error 1205 – Deadlock Detected', 1205, NULL, 'Database');

-- AlwaysOn
INSERT INTO @RequiredAlerts VALUES
('Error 1480 – AG Failover', 1480, NULL, 'AlwaysOn'),
('Error 35206 – Data Movement Suspended', 35206, NULL, 'AlwaysOn'),
('Error 35264 – AG Sync Issue', 35264, NULL, 'AlwaysOn'),
('Error 35265 – AG Sync Issue', 35265, NULL, 'AlwaysOn');

----------------------------------------------------------
-- BUILD REPORT DATASET
----------------------------------------------------------
;WITH AlertStatus AS
(
  SELECT
    R.AlertName,
    R.MessageID,
    R.Severity,
    R.Category,
    A.id AS AlertID,
    CASE WHEN A.id IS NULL THEN 'Missing' ELSE 'OK' END AS ExistsStatus,
    CASE WHEN R.Category = 'AlwaysOn' AND @AGEnabled = 0 THEN 'Skipped (AG disabled)'
       WHEN AN.operator_id IS NOT NULL THEN 'OK'
       ELSE 'Missing'
    END AS NotificationStatus
    FROM @RequiredAlerts R
    LEFT JOIN msdb.dbo.sysalerts A
        ON A.name = R.AlertName
    LEFT JOIN msdb.dbo.sysnotifications AN
        ON AN.alert_id = A.id
)
SELECT *
INTO #AlertReport
FROM AlertStatus;

---------------------------------------------------------
-- GENERATE HTML
---------------------------------------------------------
DECLARE @HTML NVARCHAR(MAX) = N'';

SET @HTML =
N'<!DOCTYPE html>
<html>
<head>
<title>SQL Alert Compliance Report</title>
<style>
body { font-family: Arial; font-size: 13px; }
table { border-collapse: collapse; width: 100%; }
th, td { border: 1px solid #ccc; padding: 6px; }
th { background: #f2f2f2; }
.ok { background: #d6f5d6; }
.missing { background: #ffd6cc; }
.skip { background: #e6e6e6; }
</style>
</head>
<body>
<h2>SQL Server Alert Compliance Report</h2>
<p>Generated on: ' + CONVERT(VARCHAR(30), GETDATE(), 120) + N'</p>
<table>
<tr>
    <th>Alert Name</th>
    <th>Category</th>
    <th>Message ID</th>
    <th>Severity</th>
    <th>Alert Exists</th>
    <th>Notification</th>
</tr>' +

(
    SELECT
        N'<tr>' +
        N'<td>' + AlertName + N'</td>' +
        N'<td>' + Category + N'</td>' +
        N'<td>' + ISNULL(CONVERT(VARCHAR(10), MessageID), N'') + N'</td>' +
        N'<td>' + ISNULL(CONVERT(VARCHAR(10), Severity), N'') + N'</td>' +
        N'<td class="' +
            CASE WHEN ExistsStatus = 'OK' THEN N'ok' ELSE N'missing' END +
        N'">' + ExistsStatus + N'</td>' +
        N'<td class="' +
            CASE
                WHEN NotificationStatus LIKE 'Skipped%' THEN 'skip'
                WHEN NotificationStatus = 'OK' THEN 'ok'
                ELSE 'missing' END +
        N'">' + NotificationStatus + N'</td>' +
        N'</tr>'
    FROM #AlertReport
    FOR XML PATH(''), TYPE
).value('.', 'NVARCHAR(MAX)')
+
N'</table>
</body>
</html>';
-----------------------------------------------------------
-- OUTPUT RESULT
-----------------------------------------------------------
SELECT @HTML AS HTML_Report;
drop table #AlertReport
```



```
exec Create_Missing_Alerts_HTML_Report
```

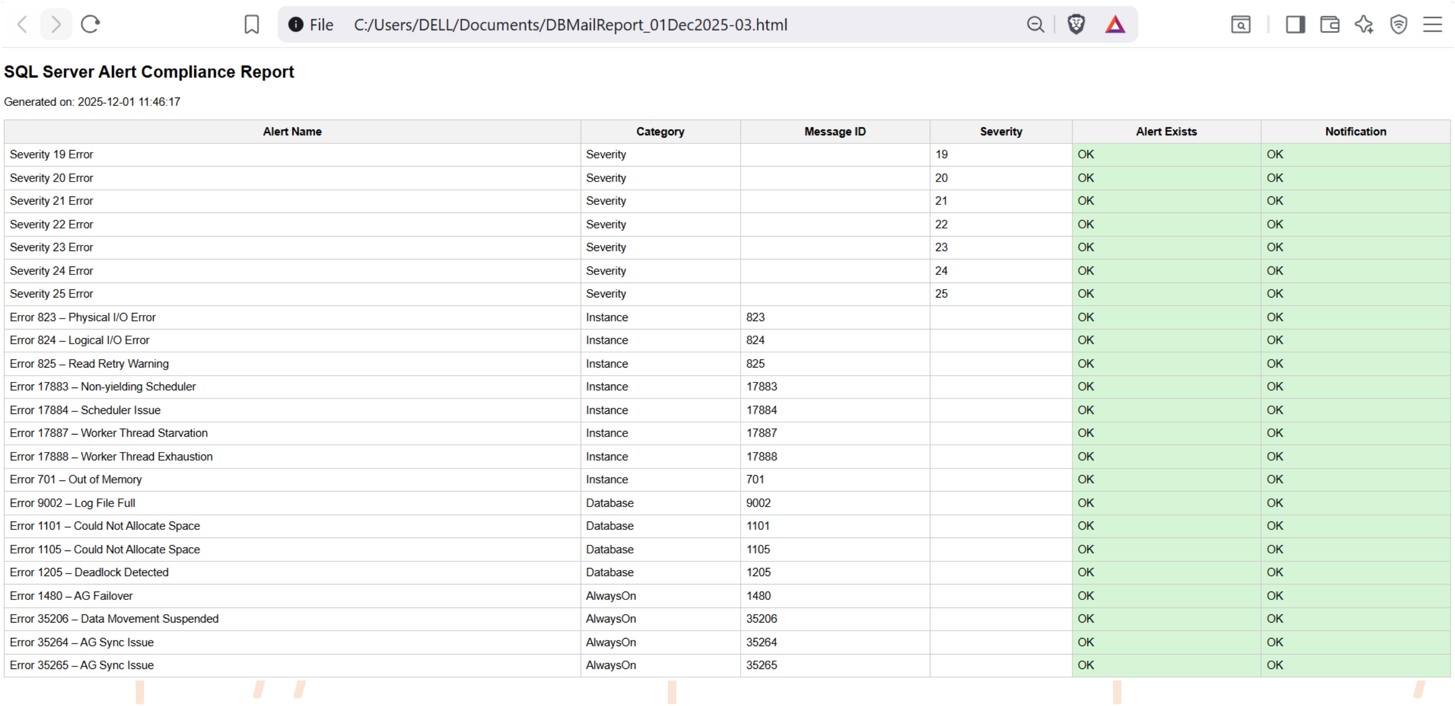
```
     HTML_Report
1    <!DOCTYPE html>  <html>  <head>  <title>SQL Alert Compliance Report</title>  <style>  body { font-family: Arial; font-size: 13px; }  table { border-collapse: collapse; width: 100%; }  th, td { border: 1px soli...
```

Save the output received as "MissingAlertsReport.HTML" in required path.

```
<!DOCTYPE html> <html> <head> <title>SQL Alert Compliance Report</title> <style> body { font-family: Arial; font-size: 13px; } table { border-
collapse: collapse; width: 100%; } th, td { border: 1px solid #ccc; padding: 6px; } th { background: #f2f2f2; } .ok { background: #d6f5d6; } .missing {
background: #ffd6cc; } .skip { background: #e6e6e6; } </style> </head> <body> <h2>SQL Server Alert Compliance Report</h2> <p>Generated on:
2025-12-01 11:54:41</p> <table> <tr>     <th>Alert Name</th>     <th>Category</th>     <th>Message ID</th>     <th>Severity</th>     <th>Alert
Exists</th>     <th>Notification</th> </tr><tr><td>Severity 19 Error</td><td>Severity</td><td></td><td>19</td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Severity 20 Error</td><td>Severity</td><td></td><td>20</td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Severity 21 Error</td><td>Severity</td><td></td><td>21</td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Severity 22 Error</td><td>Severity</td><td></td><td>22</td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Severity 23 Error</td><td>Severity</td><td></td><td>23</td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Severity 24 Error</td><td>Severity</td><td></td><td>24</td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Severity 25 Error</td><td>Severity</td><td></td><td>25</td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Error 823 – Physical I/O Error</td><td>Instance</td><td>823</td><td></td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Error 824 – Logical I/O Error</td><td>Instance</td><td>824</td><td></td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Error 825 – Read Retry Warning</td><td>Instance</td><td>825</td><td></td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Error 17883 – Non-yielding Scheduler</td><td>Instance</td><td>17883</td><td></td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Error 17884 – Scheduler Issue</td><td>Instance</td><td>17884</td><td></td><td class="ok">OK</td><td
class="ok">OK</td></tr><tr><td>Error 17887 – Worker Thread Starvation</td><td>Instance</td><td>17887</td><td></td><td
class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 17888 – Worker Thread
Exhaustion</td><td>Instance</td><td>17888</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 701 – Out of
Memory</td><td>Instance</td><td>701</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 9002 – Log File
Full</td><td>Database</td><td>9002</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 1101 – Could Not Allocate
Space</td><td>Database</td><td>1101</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 1105 – Could Not Allocate
Space</td><td>Database</td><td>1105</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 1205 – Deadlock
Detected</td><td>Database</td><td>1205</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 1480 – AG
Failover</td><td>AlwaysOn</td><td>1480</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 35206 – Data
Movement Suspended</td><td>AlwaysOn</td><td>35206</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 35264
– AG Sync Issue</td><td>AlwaysOn</td><td>35264</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr><tr><td>Error 35265 – AG
Sync Issue</td><td>AlwaysOn</td><td>35265</td><td></td><td class="ok">OK</td><td class="ok">OK</td></tr></table> </body> </html>
```

MissingAlertsReport.html

Sample HTML Output as follows:



SQL Server Alert Compliance Report

Generated on: 2025-12-01 11:46:17

Alert Name	Category	Message ID	Severity	Alert Exists	Notification
Severity 19 Error	Severity		19	OK	OK
Severity 20 Error	Severity		20	OK	OK
Severity 21 Error	Severity		21	OK	OK
Severity 22 Error	Severity		22	OK	OK
Severity 23 Error	Severity		23	OK	OK
Severity 24 Error	Severity		24	OK	OK
Severity 25 Error	Severity		25	OK	OK
Error 823 – Physical I/O Error	Instance	823		OK	OK
Error 824 – Logical I/O Error	Instance	824		OK	OK
Error 825 – Read Retry Warning	Instance	825		OK	OK
Error 17883 – Non-yielding Scheduler	Instance	17883		OK	OK
Error 17884 – Scheduler Issue	Instance	17884		OK	OK
Error 17887 – Worker Thread Starvation	Instance	17887		OK	OK
Error 17888 – Worker Thread Exhaustion	Instance	17888		OK	OK
Error 701 – Out of Memory	Instance	701		OK	OK
Error 9002 – Log File Full	Database	9002		OK	OK
Error 1101 – Could Not Allocate Space	Database	1101		OK	OK
Error 1105 – Could Not Allocate Space	Database	1105		OK	OK
Error 1205 – Deadlock Detected	Database	1205		OK	OK
Error 1480 – AG Failover	AlwaysOn	1480		OK	OK
Error 35206 – Data Movement Suspended	AlwaysOn	35206		OK	OK
Error 35264 – AG Sync Issue	AlwaysOn	35264		OK	OK
Error 35265 – AG Sync Issue	AlwaysOn	35265		OK	OK

Stored procedure that generates the HTML report and saves it as a file to a path specified via a parameter:

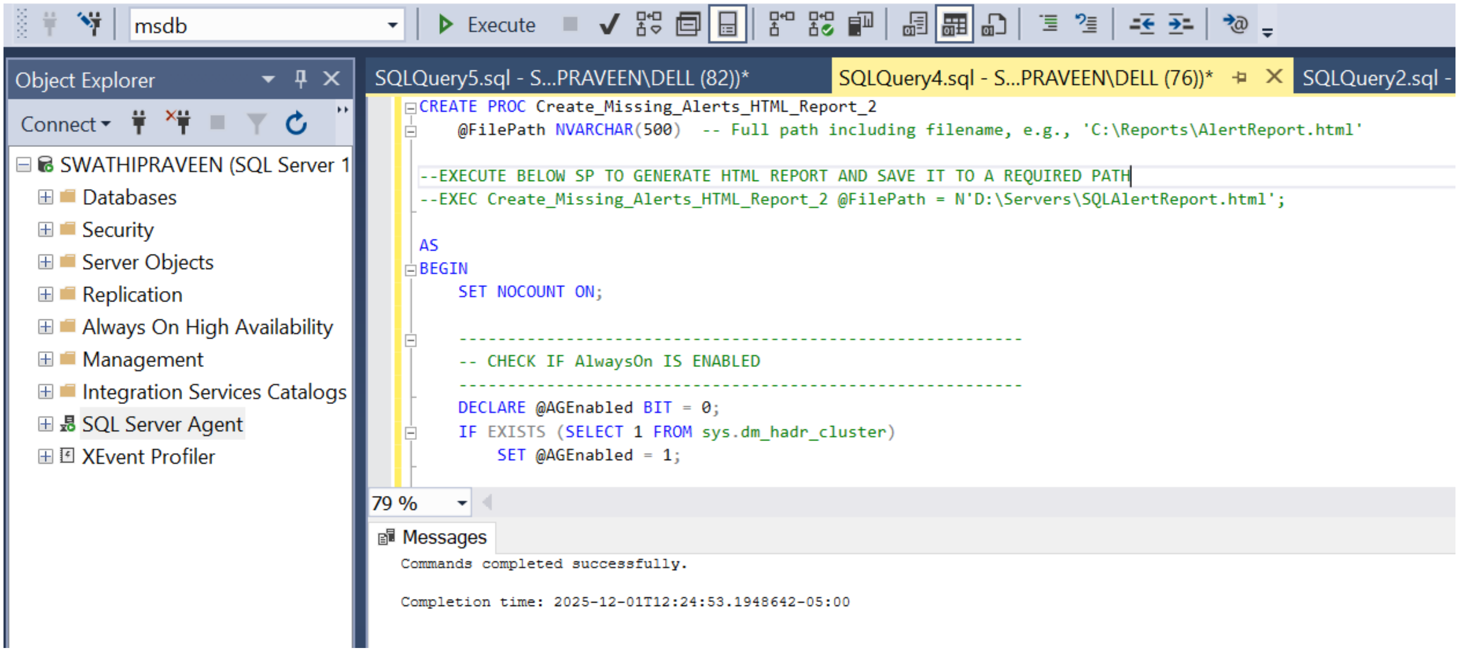
use either:

1. **sp_OACreate / sp_OAMethod** (OLE automation stored procedures)
2. **xp_cmdshell** to invoke bcp or powershell

Here's a version of your stored procedure that uses **OLE Automation** to write the HTML to a file:

Notes:

1. Make sure OLE Automation Procedures are enabled:
   ```
   EXEC sp_configure 'show advanced options', 1;
   RECONFIGURE;
   EXEC sp_configure 'Ole Automation Procedures', 1;
   RECONFIGURE;
   ```
2. The folder path must exist; CreateTextFile cannot create missing folders.
3. This approach is fully T-SQL and does not require external scripts.

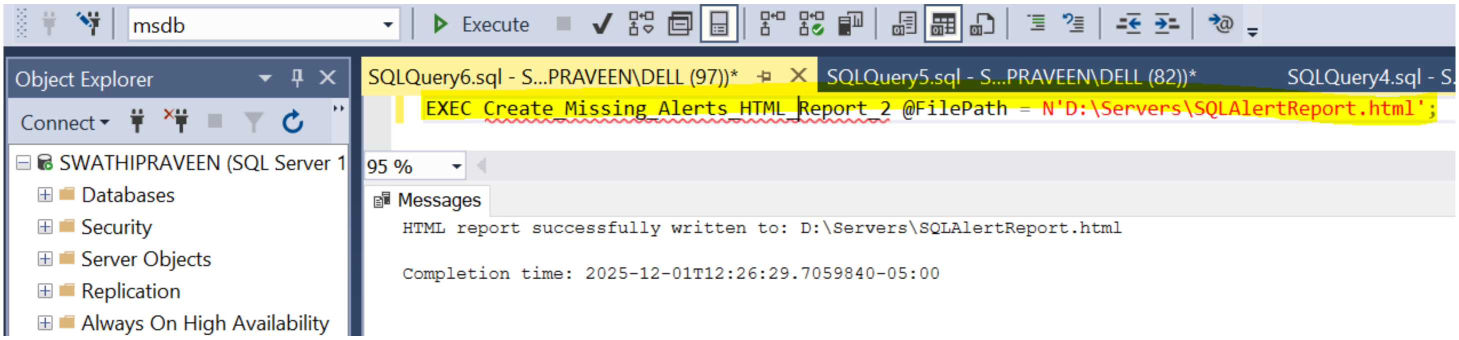

msdb
Execute
Object Explorer
Connect
SWATHIPRAVEEN (SQL Server 1
Databases
Security
Server Objects
Replication
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent
XEvent Profiler
SQLQuery5.sql - S...PRAVEEN\DELL (82))*
SQLQuery4.sql - S...PRAVEEN\DELL (76))*
SQLQuery2.sql -
79 %
Messages

```
CREATE PROC Create_Missing_Alerts_HTML_Report_2
    @FilePath NVARCHAR(500)  -- Full path including filename, e.g., 'C:\Reports\AlertReport.html'

--EXECUTE BELOW SP TO GENERATE HTML REPORT AND SAVE IT TO A REQUIRED PATH
--EXEC Create_Missing_Alerts_HTML_Report_2 @FilePath = N'D:\Servers\SQLAlertReport.html';

AS
BEGIN
    SET NOCOUNT ON;

    ------------------------------------------------------------
    -- CHECK IF AlwaysOn IS ENABLED
    ------------------------------------------------------------
    DECLARE @AGEnabled BIT = 0;
    IF EXISTS (SELECT 1 FROM sys.dm_hadr_cluster)
        SET @AGEnabled = 1;
```

```
Commands completed successfully.

Completion time: 2025-12-01T12:24:53.1948642-05:00
```

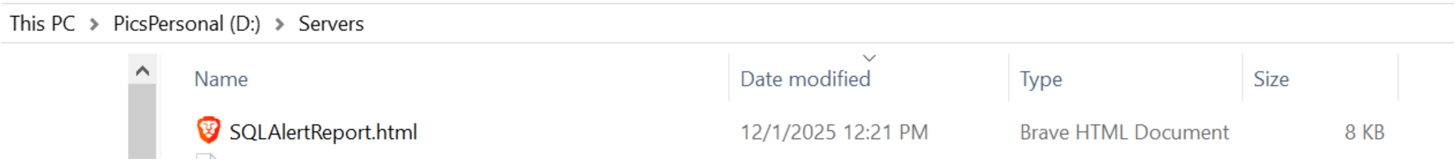
--EXECUTE BELOW SP TO GENERATE HTML REPORT AND SAVE IT TO A REQUIRED PATH

EXEC Create_Missing_Alerts_HTML_Report_2 @FilePath = N'D:\Servers\SQLAlertReport.html';


msdb
Execute
Object Explorer
Connect
SWATHIPRAVEEN (SQL Server 1
Databases
Security
Server Objects
Replication
Always On High Availability
SQLQuery6.sql - S...PRAVEEN\DELL (97))*
SQLQuery5.sql - S...PRAVEEN\DELL (82))*
SQLQuery4.sql - S.
95 %
Messages

```
EXEC Create_Missing_Alerts_HTML_Report_2 @FilePath = N'D:\Servers\SQLAlertReport.html';
```

```
HTML report successfully written to: D:\Servers\SQLAlertReport.html

Completion time: 2025-12-01T12:26:29.7059840-05:00
```



This PC > PicsPersonal (D:) > Servers

Name	Date modified	Type	Size
SQLAlertReport.html	12/1/2025 12:21 PM	Brave HTML Document	8 KB

SQLAlertReport.html

```
CREATE PROC Create_Missing_Alerts_HTML_Report_2
   @FilePath NVARCHAR(500)  -- Full path including filename, e.g., 'C:\Reports\AlertReport.html'

--EXECUTE BELOW SP TO GENERATE HTML REPORT AND SAVE IT TO A REQUIRED PATH
--EXEC Create_Missing_Alerts_HTML_Report_2 @FilePath = N'D:\Servers\SQLAlertReport.html';

AS
BEGIN
   SET NOCOUNT ON;

   ---------------------------------------------------------
   -- CHECK IF AlwaysOn IS ENABLED
   ---------------------------------------------------------
   DECLARE @AGEnabled BIT = 0;
   IF EXISTS (SELECT 1 FROM sys.dm_hadr_cluster)
      SET @AGEnabled = 1;

   ---------------------------------------------------------
   -- REQUIRED ALERT DEFINITIONS
   ---------------------------------------------------------
   DECLARE @RequiredAlerts TABLE
   (
      AlertName NVARCHAR(200),
      MessageID INT NULL,
      Severity INT NULL,
      Category NVARCHAR(50)
   );

   INSERT INTO @RequiredAlerts VALUES
   ('Severity 19 Error', NULL, 19, 'Severity'),
   ('Severity 20 Error', NULL, 20, 'Severity'),
   ('Severity 21 Error', NULL, 21, 'Severity'),
   ('Severity 22 Error', NULL, 22, 'Severity'),
   ('Severity 23 Error', NULL, 23, 'Severity'),
   ('Severity 24 Error', NULL, 24, 'Severity'),
   ('Severity 25 Error', NULL, 25, 'Severity'),
   ('Error 823 – Physical I/O Error', 823, NULL, 'Instance'),
   ('Error 824 – Logical I/O Error', 824, NULL, 'Instance'),
   ('Error 825 – Read Retry Warning', 825, NULL, 'Instance'),
   ('Error 17883 – Non-yielding Scheduler', 17883, NULL, 'Instance'),
   ('Error 17884 – Scheduler Issue', 17884, NULL, 'Instance'),
   ('Error 17887 – Worker Thread Starvation', 17887, NULL, 'Instance'),
   ('Error 17888 – Worker Thread Exhaustion', 17888, NULL, 'Instance'),
   ('Error 701 – Out of Memory', 701, NULL, 'Instance'),
   ('Error 9002 – Log File Full', 9002, NULL, 'Database'),
   ('Error 1101 – Could Not Allocate Space', 1101, NULL, 'Database'),
   ('Error 1105 – Could Not Allocate Space', 1105, NULL, 'Database'),
   ('Error 1205 – Deadlock Detected', 1205, NULL, 'Database'),
   ('Error 1480 – AG Failover', 1480, NULL, 'AlwaysOn'),
   ('Error 35206 – Data Movement Suspended', 35206, NULL, 'AlwaysOn'),
('Error 35264 – AG Sync Issue', 35264, NULL, 'AlwaysOn'),
('Error 35265 – AG Sync Issue', 35265, NULL, 'AlwaysOn');

----------------------------------------------------------
-- BUILD REPORT DATASET
----------------------------------------------------------
;WITH AlertStatus AS
(
  SELECT
    R.AlertName,
    R.MessageID,
    R.Severity,
    R.Category,
    A.id AS AlertID,
    CASE WHEN A.id IS NULL THEN 'Missing' ELSE 'OK' END AS ExistsStatus,
    CASE WHEN R.Category = 'AlwaysOn' AND @AGEnabled = 0 THEN 'Skipped (AG disabled)'
      WHEN AN.operator_id IS NOT NULL THEN 'OK'
      ELSE 'Missing'
    END AS NotificationStatus
  FROM @RequiredAlerts R
  LEFT JOIN msdb.dbo.sysalerts A
    ON A.name = R.AlertName
  LEFT JOIN msdb.dbo.sysnotifications AN
    ON AN.alert_id = A.id
)
SELECT *
INTO #AlertReport
FROM AlertStatus;

----------------------------------------------------------
-- GENERATE HTML
----------------------------------------------------------
DECLARE @HTML NVARCHAR(MAX) = N'';

SET @HTML =
N'<!DOCTYPE html>
<html>
<head>
<title>SQL Alert Compliance Report</title>
<style>
body { font-family: Arial; font-size: 13px; }
table { border-collapse: collapse; width: 100%; }
th, td { border: 1px solid #ccc; padding: 6px; }
th { background: #f2f2f2; }
.ok { background: #d6f5d6; }
.missing { background: #ffd6cc; }
.skip { background: #e6e6e6; }
</style>
</head>
<body>
<h2>SQL Server Alert Compliance Report</h2>
<p>Generated on: ' + CONVERT(VARCHAR(30), GETDATE(), 120) + N'</p>
<table>
<tr>
  <th>Alert Name</th>
  <th>Category</th>
  <th>Message ID</th>
  <th>Severity</th>
  <th>Alert Exists</th>
  <th>Notification</th>
</tr>' +
    (
        SELECT
            N'<tr>' +
            N'<td>' + AlertName + N'</td>' +
            N'<td>' + Category + N'</td>' +
            N'<td>' + ISNULL(CONVERT(VARCHAR(10), MessageID), N'') + N'</td>' +
            N'<td>' + ISNULL(CONVERT(VARCHAR(10), Severity), N'') + N'</td>' +
            N'<td class="' +
                CASE WHEN ExistsStatus = 'OK' THEN N'ok' ELSE N'missing' END +
            N'">' + ExistsStatus + N'</td>' +
            N'<td class="' +
                CASE
                    WHEN NotificationStatus LIKE 'Skipped%' THEN 'skip'
                    WHEN NotificationStatus = 'OK' THEN 'ok'
                    ELSE 'missing' END +
            N'">' + NotificationStatus + N'</td>' +
            N'</tr>'
        FROM #AlertReport
        FOR XML PATH(''), TYPE
    ).value('.', 'NVARCHAR(MAX)')
    +
    N'</table>
    </body>
    </html>';

    ---------------------------------------------------------
    -- WRITE HTML TO FILE USING OLE AUTOMATION
    ---------------------------------------------------------
    DECLARE @Object INT;
    DECLARE @hr INT;

    EXEC @hr = sp_OACreate 'Scripting.FileSystemObject', @Object OUT;
    IF @hr <> 0
        RAISERROR('Failed to create FileSystemObject', 16, 1);

    DECLARE @TextFile INT;
    EXEC @hr = sp_OAMethod @Object, 'CreateTextFile', @TextFile OUT, @FilePath, 2, True;
    IF @hr <> 0
        RAISERROR('Failed to create text file', 16, 1);

    EXEC @hr = sp_OAMethod @TextFile, 'Write', NULL, @HTML;
    EXEC @hr = sp_OAMethod @TextFile, 'Close', NULL;

    EXEC sp_OADestroy @TextFile;
    EXEC sp_OADestroy @Object;

    ---------------------------------------------------------
    -- CLEANUP
    ---------------------------------------------------------
    DROP TABLE #AlertReport;

    PRINT 'HTML report successfully written to: ' + @FilePath;
END
```