

# eMail Alerts Configuration for Failed Backup Jobs in SQL Server 2005



## Applies to:

All SAP versions higher than 4.6C in Windows platform and the database is SQL Server 2005.

For more information, visit the [Operations homepage](#).

## Summary

This document will help to configure to email alerts for the failed backup jobs. The email will be delivered to the mailbox which you want to configure.

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## Author Bio

I'm Subhadip Kumar working with IBM India Pvt. Ltd. as a SAP Basis Consultant for last 1.5 years. My previous experience was with Tata Consultancy Services as an Oracle DBA. I'm OCP certified in Oracle 9i and Oracle 10g. Also I've passed OCA in Oracle 10g Application Server Administration.

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## Introduction

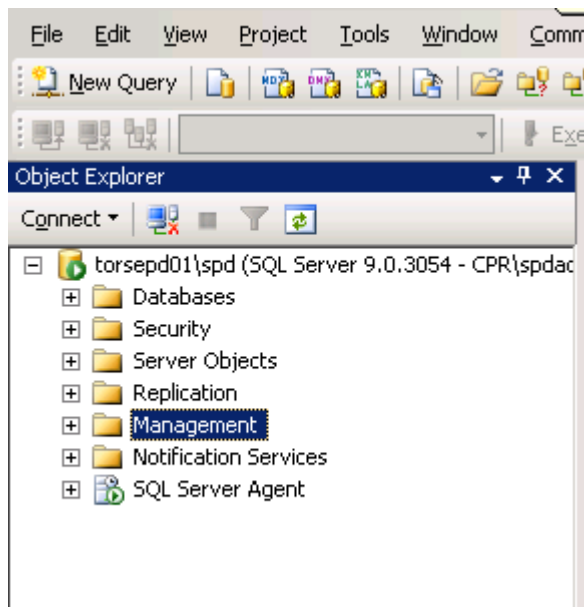
For configuring Email alerts for backup jobs first you need to configure either **SQL Mail or Database Mail** in SQL Server 2005.

## Difference Between Database Mail and SQL Mail

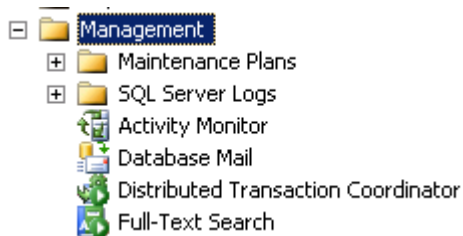
Database mail is newly introduced concept in SQL Server 2005 and it is replacement of SQL Mail of SQL Server earlier version. Database Mail has many enhancements over SQL Mail. Database Mail is based on SMTP (Simple Mail Transfer Protocol) and also very fast and reliable where as SQL Mail is based on MAPI (Messaging Application Programming Interface). Database mail depends on Service Broker so this service must be enabled for Database Mail. Database Mail can be encrypted for additional security. SQL Mail is lesser secure as it can encrypt the message as well anybody can use SMTP to send email. Additionally, for MAPI to be enabled for SQL Mail it will require Outlook to be installed. All this leads to potential security threat to database server.

## Configuring Database Mail

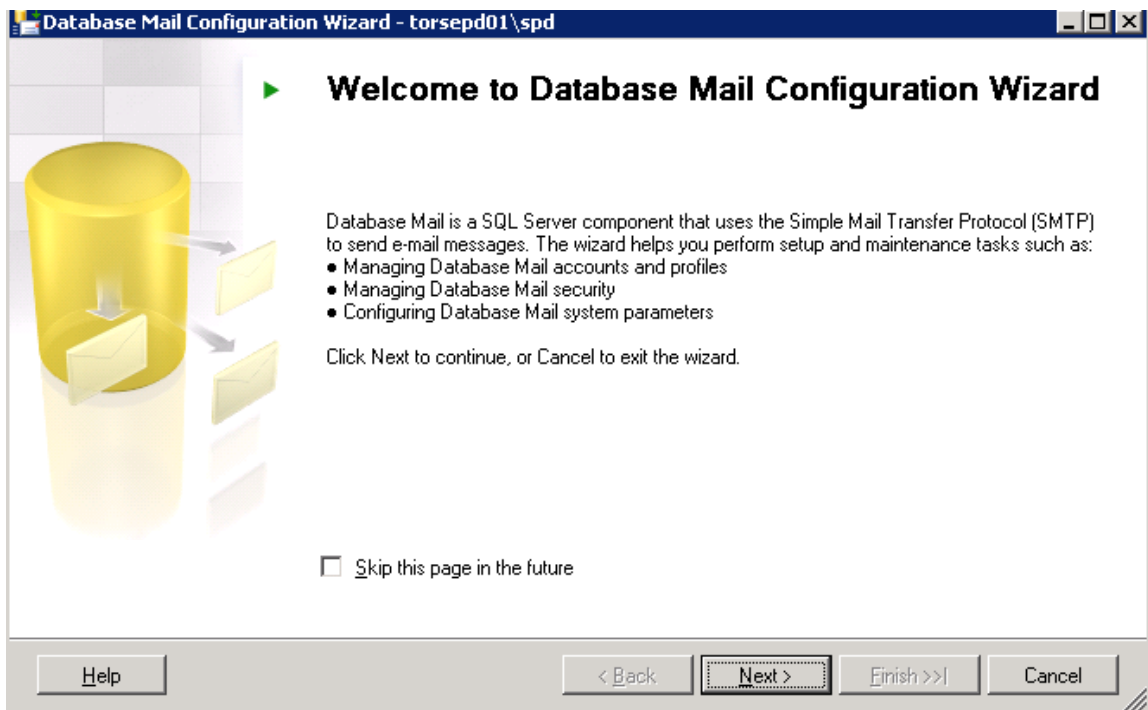
1. Login to SQL Server Management Studio.



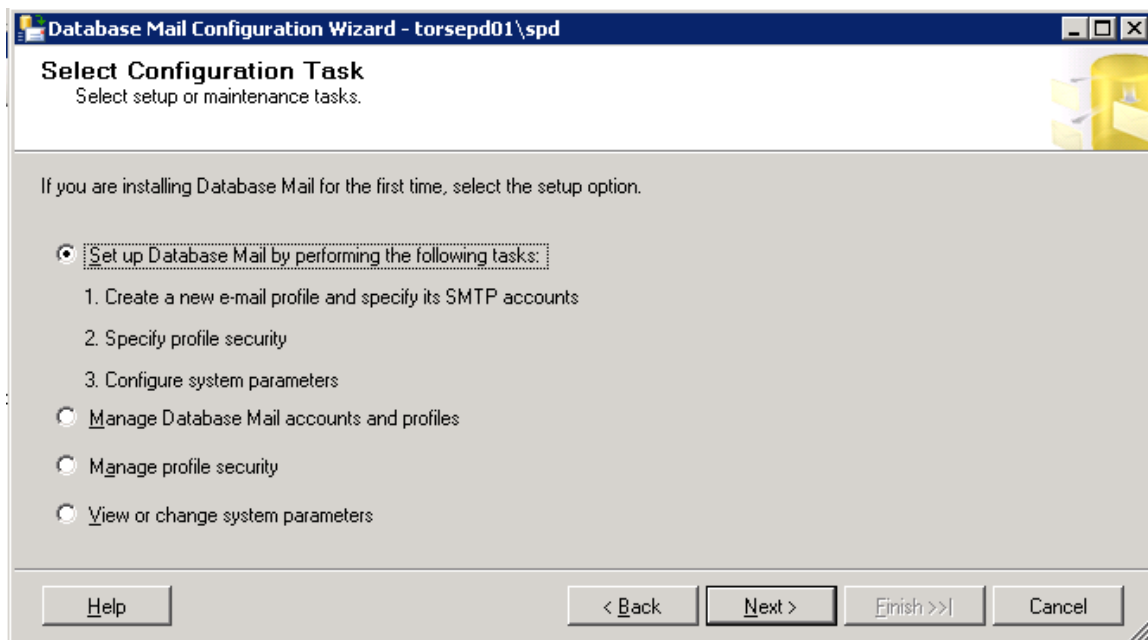
2. Expand the tree named 'Management'.



3. Double click on Database mail.



4. Select the first option for configuring Mail profile and accounts.



5. Write down Profile Name and Description and click on the Add button for creating new account.

The screenshot shows the 'New Profile' dialog box in the Database Mail Configuration Wizard. The title bar reads 'Database Mail Configuration Wizard - torsepd01\spd'. The main heading is 'New Profile' with the instruction 'Specify the profile name, description, accounts, and failover priority.' Below this, there are two text input fields: 'Profile name:' containing 'Job Alerts' and 'Description:' containing 'Database Mail for Job Alerts'. A paragraph of text explains that a profile can be associated with multiple SMTP accounts and that the wizard will use the next account in the priority list if one fails. Below this text is a table for 'SMTP accounts' with columns for 'Priority', 'Account Name', and 'E-mail Address'. To the right of the table are four buttons: 'Add...', 'Remove', 'Move Up', and 'Move Down'. At the bottom of the dialog are five buttons: 'Help', '< Back', 'Next >', 'Finish >>|', and 'Cancel'.

**New Profile**  
Specify the profile name, description, accounts, and failover priority.

Profile name: Job Alerts  
Description: Database Mail for Job Alerts

A profile may be associated with multiple SMTP accounts. If an account fails while sending an e-mail, the profile uses the next account in the priority list. Specify the accounts associated with the profile, and move the accounts to set the failover priority.

SMTP accounts:

Priority	Account Name	E-mail Address
----------	--------------	----------------

Add...  
Remove  
Move Up  
Move Down

Help < Back Next > Finish >>| Cancel

6. Fill up the details as seen in the screenshot. Email address can be anything and from this id all emails will come. Specify the mail server name.

The screenshot shows the 'Manage Existing Account' dialog box in the Database Mail Configuration Wizard. The window title is 'Database Mail Configuration Wizard - torsepd01\spd'. The dialog has a title bar with standard Windows window controls. The main content area is titled 'Manage Existing Account' with the instruction 'Choose the account to view, change, or delete.' Below this, there are several fields and options:

- Account name:** A dropdown menu showing 'Job Alerts' and a 'Delete' button.
- Description:** A text box containing 'Accounts for Job Alerts'.
- Outgoing mail server (SMTP):**
  - E-mail address:** 'DATABASEALERTS@cpr.ca'
  - Display name:** 'Database Alerts'
  - Reply e-mail:** (empty text box)
  - Server name:** 'MAIL04.cpr.ca' and **Port number:** '25'
  - This server requires a secure connection (SSL)
- SMTP Authentication:**
  - Windows Authentication using Database Engine service credentials
  - Basic authentication
    - User name:** (empty text box)
    - Password:** (empty text box)
    - Confirm password:** (empty text box)
  - Anonymous authentication

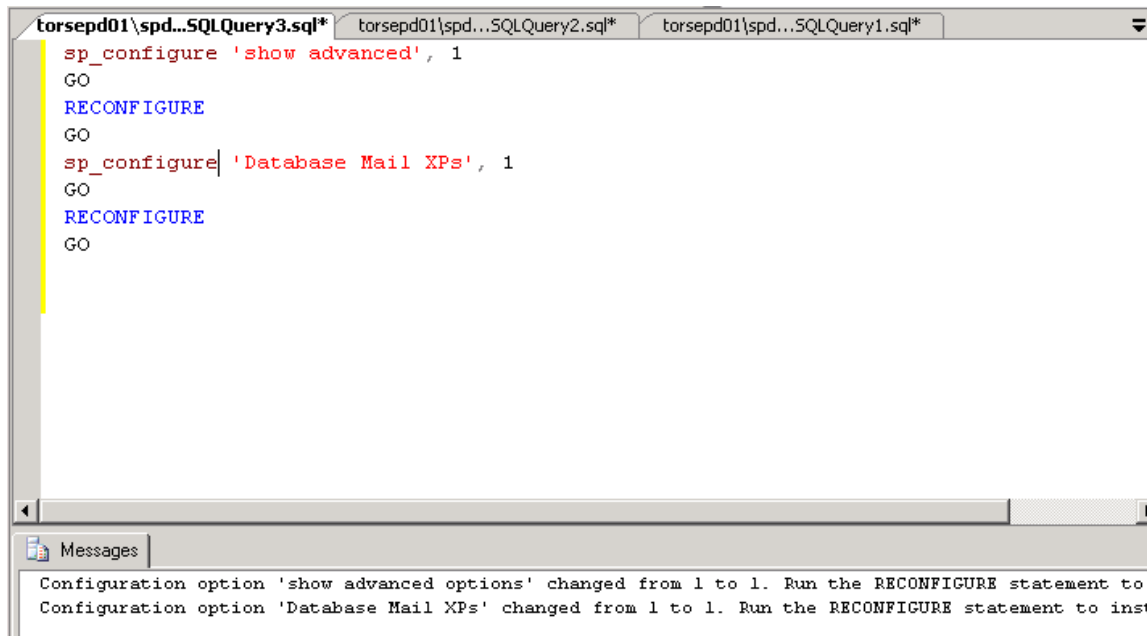
At the bottom of the dialog, there are four buttons: 'Help', '< Back', 'Next >', and 'Finish >>|' (disabled), and a 'Cancel' button.

7. Click Next and Finish.

Now Database mail has been configured.

## Activation and Confirmation of Database Mail

For activation of database mail open a New Query window. Run the following queries.



```

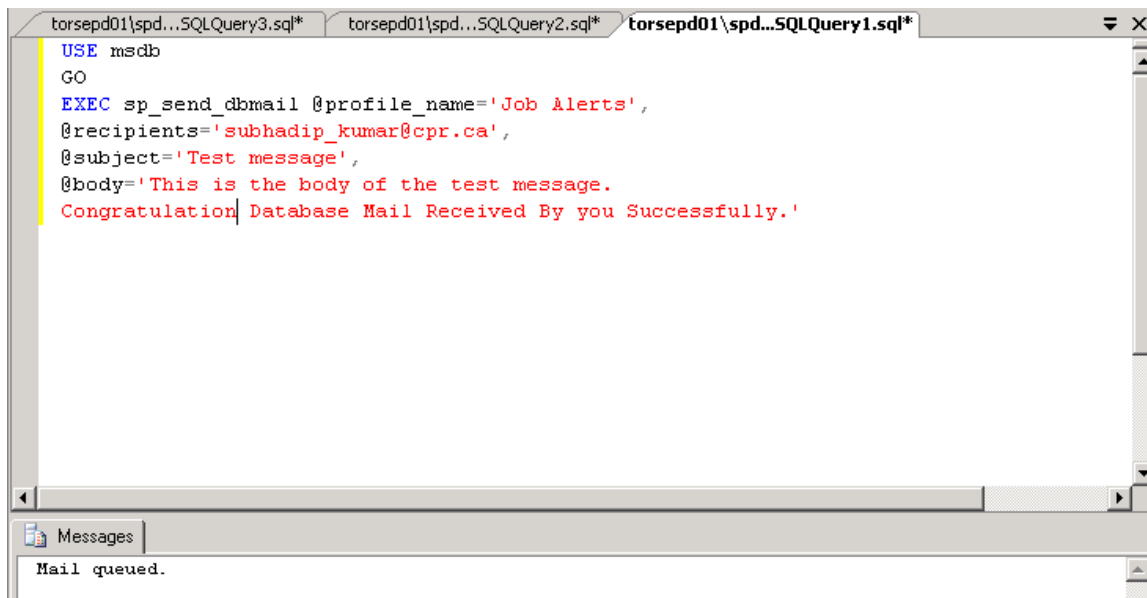
torsepd01\spd...SQLQuery3.sql*  torsepd01\spd...SQLQuery2.sql*  torsepd01\spd...SQLQuery1.sql*
sp_configure 'show advanced', 1
GO
RECONFIGURE
GO
sp_configure 'Database Mail XPs', 1
GO
RECONFIGURE
GO

```

Messages

Configuration option 'show advanced options' changed from 1 to 1. Run the RECONFIGURE statement to  
 Configuration option 'Database Mail XPs' changed from 1 to 1. Run the RECONFIGURE statement to inst

For the confirmation purpose send a Test Mail by opening a New Query Window and run the following script.



```

torsepd01\spd...SQLQuery3.sql*  torsepd01\spd...SQLQuery2.sql*  torsepd01\spd...SQLQuery1.sql*
USE msdb
GO
EXEC sp_send_dbmail @profile_name='Job Alerts',
@recipients='subhadip_kumar@cpr.ca',
@subject='Test message',
@body='This is the body of the test message.
Congratulation Database Mail Received By you Successfully.'

```

Messages

Mail queued.

To check the status of the sent mails run the following queries.

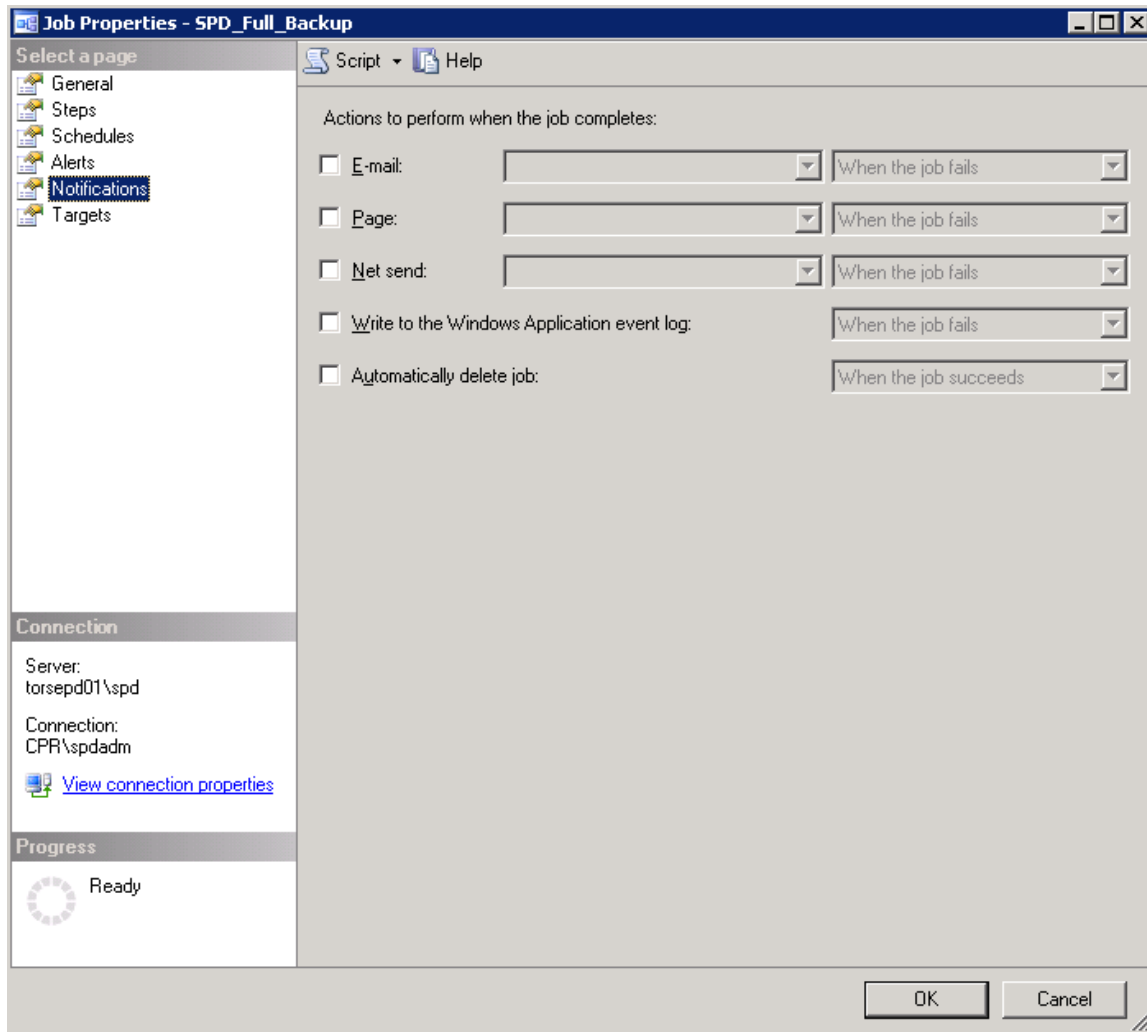
```

SELECT *
FROM sysmail_mailitems
GO
SELECT *
FROM sysmail_log
GO

```

## Configuring Backup Jobs

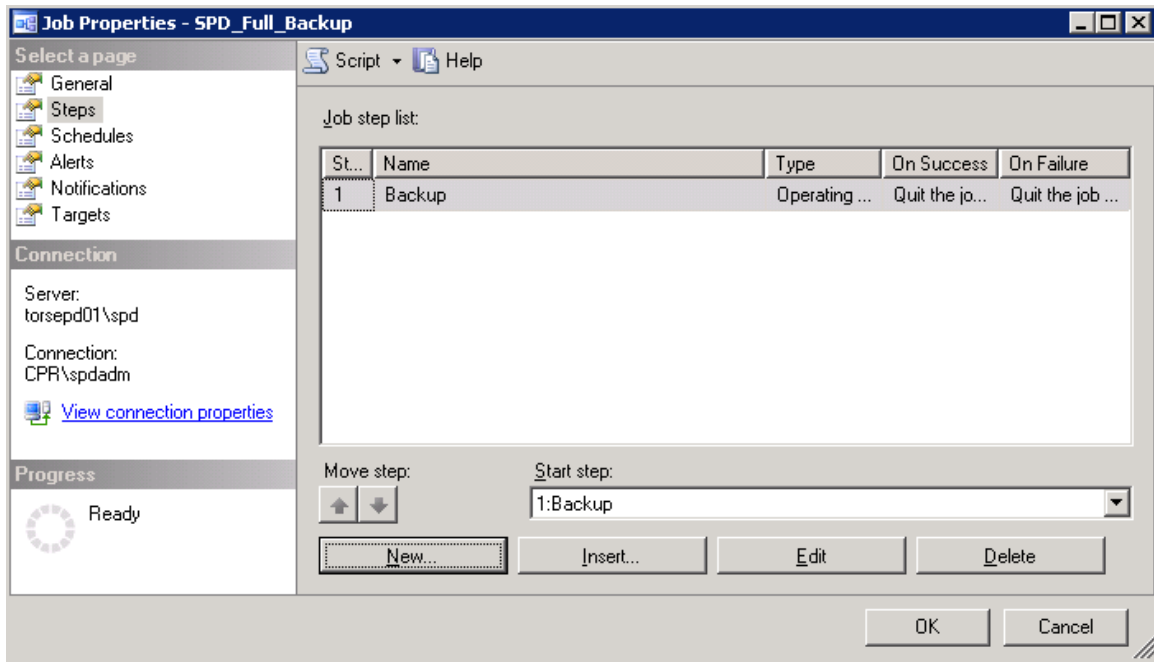
Right click to the existing job for which you want to configure the mail alerts and go to the properties.



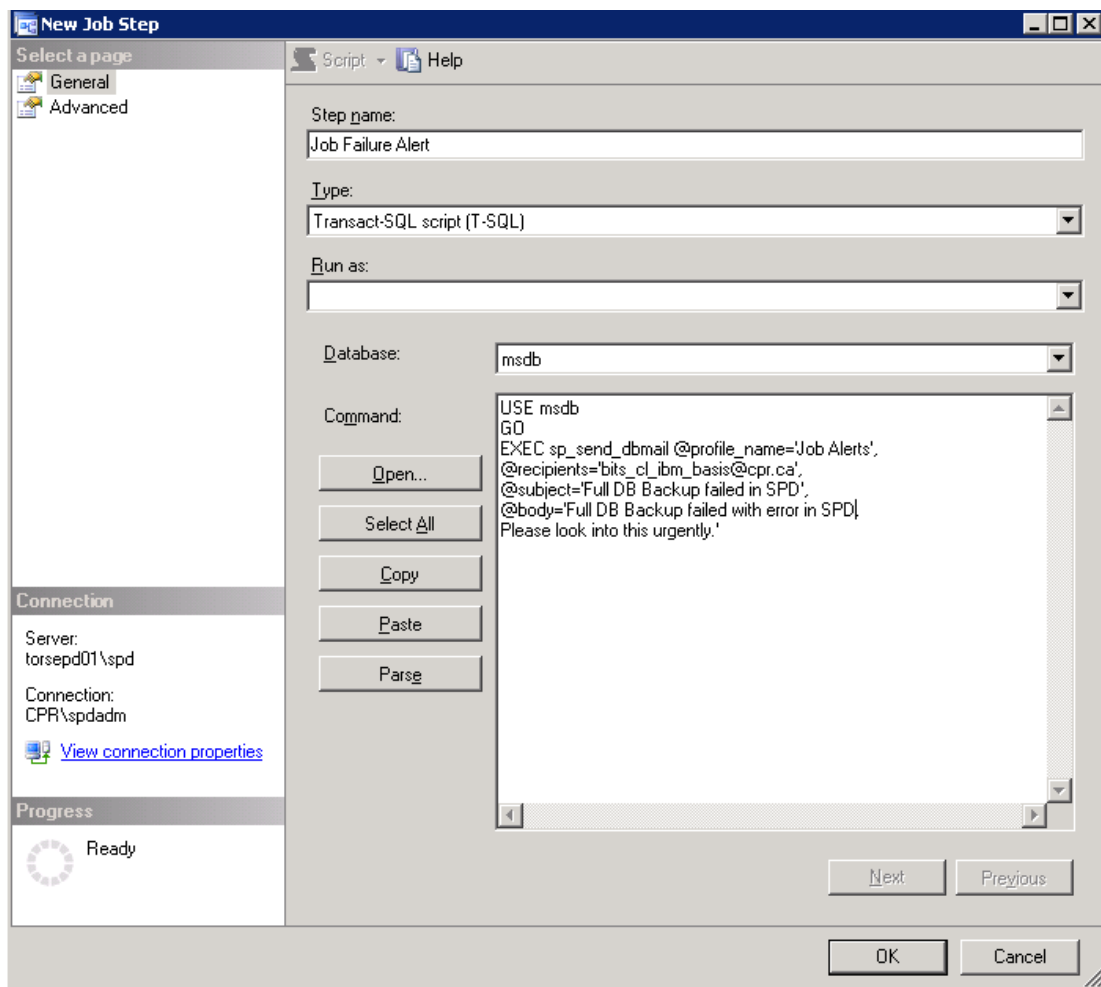
In the Notification tab there is a concept called Email. Don't get confused, it is only be activated when we configure SQL Mail. As we are using Database mail we have to configure the job in a different way.



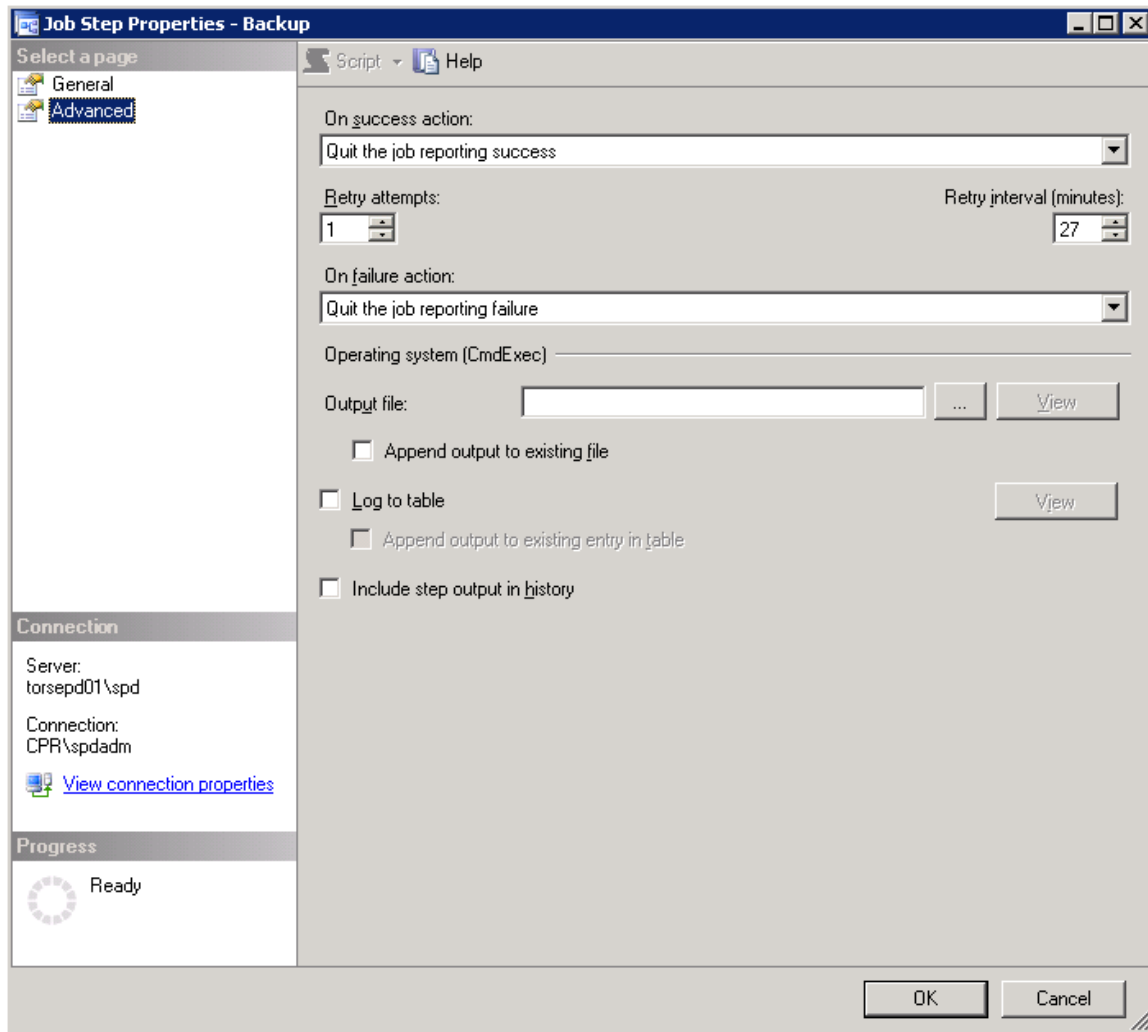
1. Go to the Step, Click on the New Button.



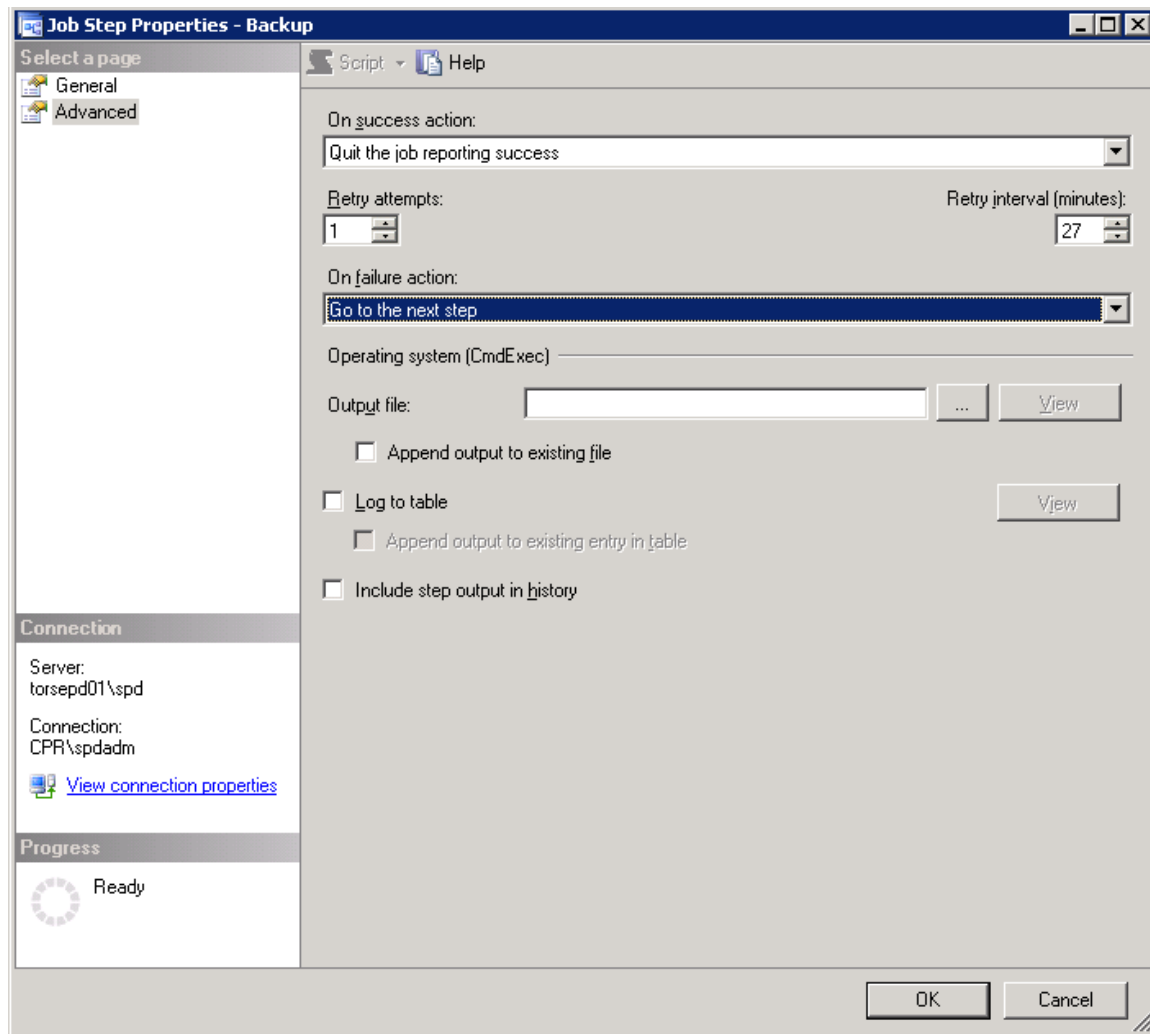
2. Add the New step as described below. (Change the system Name, email id and Description accordingly.)



- Now go back to the original Job step and open it in the edit mode.
- Go to the advanced tab.



5. Change the action on failure. Change it to the Go to Next Step. (Don't change it to 'Go to Step n....')



6. Click Ok -> Ok for confirmation.
7. Job Alerts has been scheduled.

## Related Content

[SAP Backup and Restore Information \(MS SQL Server\)](#)

[SAP Backup and CCMS Alerts for MSSQL Server](#)

For more information, visit the [Compliance and Software Lifecycle Security homepage](#).

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