# Week 13 Lab 1 Practical

# Duties of a DBA - Backup and Restore

**Completing this worksheet will help prepare you for the next mini assessment. This is a checkpoint, you may work in pairs.**

1. **What are some common tasks a DBA can be expected to complete? For each also list how often they should occur**

Everyday:

Check database and transaction log backups and agent errors

Check all databases make sure all are up

Weekly:

Check for full system backup status

Verify the database is being backed up

Test restores of the database backups on test server

Monthly:

Check windows updates and System performance

Verify data access speed is running at normal level

Check the capacity of database in order to expending

Quarterly:

Perform full test of disaster recovery plan

Check the system running performance such as cup, memory status

1. **How would you automate your production backups?**
2. **How would you check your backups to validate that they were successfully created?**
3. **List the three backup models in SQL Server and the associated pros and cons.**

Simple Recovery

Bulk-Logged

1. **List the two ways these backup models can be set (include any syntax)**

**Let have a quick run through. Files on the I: drive and in Gitlab.**

**Install the Pubs database on your containerised MSSQL Server (installpubs.sql).**

**Take a full backup of your Pubs database (make sure you have closed any query windows).**

**Insert the Pubs data.**

**Take a differential backup.**

**Insert a new author <YourName> (or update an existing author).**

**Take a differential backup.**

**Restore the full backup only (explore the Options and the Timeline)**

**Verify there is no data.**

**Restore the full backup + differential + transactions logs.**

**Confirm your data is in its most recent state.**

**DBCC CHECKDB for allocation or consistency errors.**