Tush

Pets4u

Database Maintenance Manual

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# Introduction

This maintenance plan is set up to ensure a secure database throughout the operation of the database. Every part of the SQL server environment has to be maintained and managed very carefully to ensure a high level of performance and availability.

Database Maintenance plan is a plan set of specific task that will need to be performed on a regular basis on a database to ensure that the performance and availability is up to standards. The goal is to cover critical database maintenance task that can be applied to all databases to ensure performance of a high standard.

# Core Maintenance Plan Tasks

## Backup Database

It is recommended to backup your database regularly. If the database goes corrupt then the backup data on the backups can be retrieved, This prevents the loss of important data that can not be found again or easily.

Two types of backups:

* Full database backups – this is the core of any disaster recovery plan because it consists of all the data in the database and no data will be lost then.
* Transaction log backups – This only covers the transaction data of the database.

## Verify the Integrity of Database

Data in a SQL server can go corrupt, this could be due to a failure in the disk subsystem, or some other event. Data corruption can occur in one part of the database and it will take some time to find the corrupted part in the database. In this time it takes to find the corrupted data it Is possible that there were backups made with the corrupted data in them.

The longer the corrupted data in not discovered the more out-of-date the most recent backup will become and if the older backups are deleted then a lot of data can go missing because there will be no copy of the database without the corrupted data. Therefor the DBA’s must regularly check the physical integrity of the database.

## Remove Old Backups

The DBA must ensure that the unneeded backups are removed because keeping all the backups can quickly fill up your hard drives and cause a lot of problems over time.

## Maintain Index and Column Statistics

Index and column statistics are used by the query optimizer as a part of its evaluation process, if the statistics are old it will cause the optimizer to create an inefficient execution plan, This will cause that the query’s performance are slowed down.

The DBA need sto create a maintenance task to ensure that they ae regularly updated .