Zadanie 3

1 Procedura tworząca backup pojedynczej bazy

db1_202311242338.bak

```
CREATE DATABASE AdminDB;
USE AdminDB
CREATE TABLE BK LOG (bk id INT NOT NULL IDENTITY CONSTRAINT PK BK LOG PRIMARY KEY,
    nazwa_b NVARCHAR(100) NOT NULL,
    nazwa_pliku_bk NVARCHAR(200) NOT NULL,
    kto NVARCHAR(100) NOT NULL DEFAULT SUSER SNAME(),
    skad NVARCHAR(100) NOT NULL DEFAULT HOST_NAME(),
    kiedy DATETIME NOT NULL DEFAULT GETDATE()
);
ALTER PROCEDURE bk db @nazwa b NVARCHAR(100)
AS
BEGIN
    DECLARE @file name NVARCHAR(255);
    DECLARE @current_date NVARCHAR(12) = FORMAT(GETDATE(), 'yyyyMMddHHmm');
    SET @file_name = @nazwa_b + '_' + @current_date + '.bak'
    DECLARE @backup_path NVARCHAR(255) = 'C:\Users\Public\backups\' + @file_name;
    BACKUP DATABASE @nazwa_b
    TO DISK = @backup_path;
    INSERT INTO AdminDB.dbo.BK_LOG (nazwa_b, nazwa_pliku_bk) VALUES (@nazwa_b, @file_name);
END;
EXEC bk_db 'db1';
Sprawdzenie logów
SELECT * FROM AdminDB.dbo.BK_LOG
Results Messages
     bk_id nazwa_b nazwa_pliku_bk
                                   kto
                                                             skad
                                                                             kiedy
                   db1_202311242338 WIN-87U1HNU46OH\Administrator WIN-87U1HNU46OH 2023-11-24 23:38:45.357
           db1
Sprawdzenie w czy powstał backup w katalogu
  Name
                                             Date modified
                                                                 Type
                                                                                     Size
```

11/24/2023 11:42 ...

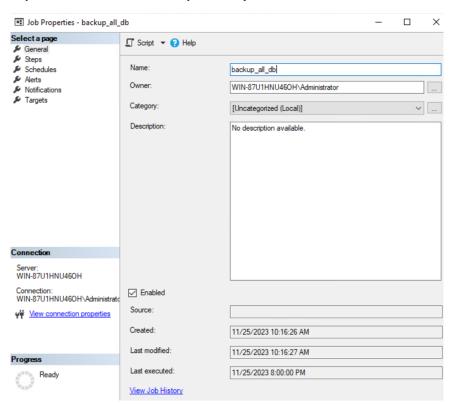
BAK File

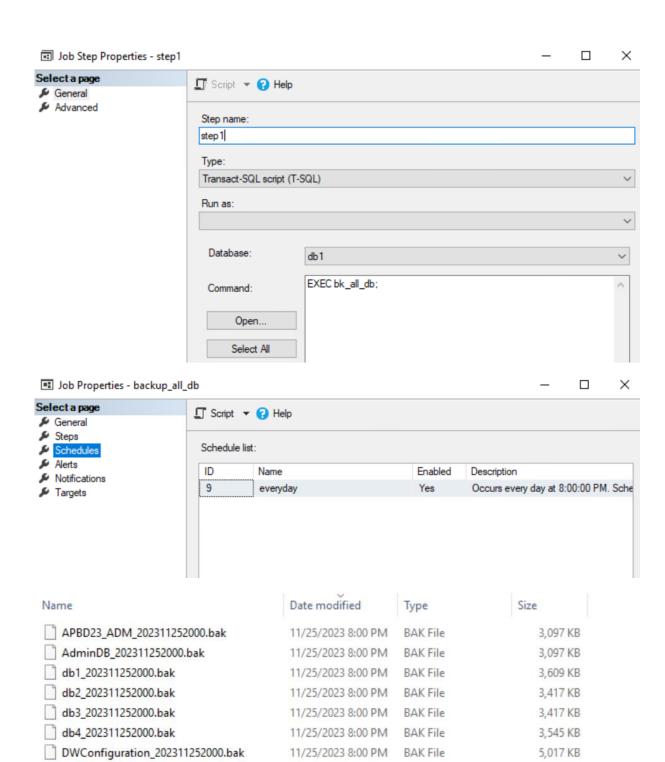
3,609 KB

2 Procedura robiąca backup wszystkich baz

```
CREATE PROCEDURE bk all db
AS
BEGIN
    DECLARE @db_name NVARCHAR(100);
    DECLARE @backup path NVARCHAR(255) = 'C:\Users\Public\backups\';
    DECLARE @file_name NVARCHAR(255)
    DECLARE @current_date NVARCHAR(12) = FORMAT(GETDATE(), 'yyyyMMddHHmm');
    DECLARE CI CURSOR FOR SELECT name FROM master.sys.databases
    WHERE name NOT IN ('master', 'model', 'msdb', 'tempdb')
    OPEN CI
    FETCH NEXT FROM CI INTO @db name
    WHILE @@FETCH_STATUS = 0
    BEGIN
       SET @file_name = @backup_path + @db_name + '_' + @current_date + '.bak'
       BACKUP DATABASE @db_name TO DISK = @file_name
       FETCH NEXT FROM CI INTO @db_name
    END
    CLOSE CI
    DEALLOCATE Ci
END;
```

Zaplanowanie uruchamiania procedury





11/25/2023 8:00 PM BAK File

11/25/2023 8:00 PM BAK File

BAK File

11/25/2023 8:00 PM

11,357 KB

3,865 KB

2,969 KB

DWDiagnostics_202311252000.bak

DWQueue_202311252000.bak

pwx_db_202311252000.bak

3 Procedura tworząca backup bazy gdzie nastąpił przyrost o określoną liczbę rekordów

```
|ALTER PROCEDURE check backup @number INT
BEGIN
    DECLARE @db_name NVARCHAR(50);
    DECLARE @tb name NVARCHAR(50);
    DECLARE db_cursor CURSOR FOR SELECT DISTINCT db_nam FROM APBD23_ADM.dbo.DB_CHECK;
    OPEN db_cursor;
    FETCH NEXT FROM db_cursor INTO @db_name;
    WHILE @@FETCH_STATUS = 0
    BEGIN
        DECLARE @from_db NVARCHAR(50);
        SET @from_db = QUOTENAME(@db_name) + '.INFORMATION_SCHEMA.TABLES';
        DECLARE @sql NVARCHAR(MAX);
        SET @sql = 'DECLARE table_cursor CURSOR FOR SELECT DISTINCT table_name FROM ' + @from_db;
        EXEC sp_executesql @sql;
        OPEN table_cursor
        FETCH NEXT FROM table cursor INTO @tb name;
        WHILE @@FETCH_STATUS = 0
        BEGIN
            CREATE TABLE #HistoryData (
                check_id INT,
                tb_nam NVARCHAR(50),
                stamp1 DATETIME,
                tb_num INT,
                check_id2 INT,
                db nam NVARCHAR(50);
                stamp2 DATETIME,
                opis NVARCHAR(MAX)
            );
            INSERT INTO #HistoryData
            EXEC history @db_name, @tb_name;
            IF (
            SELECT MAX(tb num) - MIN(tb num)
            FROM #HistoryData
            WHERE check_id IN (SELECT TOP 2 check_id FROM #HistoryData ORDER BY check_id DESC)
            ) > @number
            BEGIN
                EXEC bk_db @db_name
            END
            DROP TABLE #HistoryData;
            FETCH NEXT FROM table cursor INTO @tb name;
        END
        CLOSE table cursor;
        DEALLOCATE table_cursor;
        FETCH NEXT FROM db_cursor INTO @db_name;
   END
   CLOSE db cursor;
   DEALLOCATE db cursor;
END;
EXEC check backup 4
```

Wystąpił przyrost w bazie db1 w tabeli miasta i z wywołaniem procedury z parametrem 4

	Results		Messages						
	check	id	tb_nam	tb_check_d_stamp	tb_num	check_id	db_nam	d_stamp	opis
1	9		miasta	2023-11-25 10:28:42.083	4	9	db1	2023-11-25 10:28:42.047	Procedura check_tables
2	15	**********	miasta	2023-11-25 11:42:26.917	4	15	db1	2023-11-25 11:42:26.610	Procedura check_tables
3	16		miasta	2023-11-26 01:13:28.817	12	16	db1	2023-11-26 01:13:28.517	Procedura check_tables

Został wykonany backup bazy db1

Name	Date modified	Туре	Size
db1_202311260130.bak	11/26/2023 1:30 AM	BAK File	3,609 KB