



**UNIVERSIDAD NACIONAL DE COSTA RICA
SEDE REGIONAL CHOROTEGA**

CURSO:

ADMINISTRACION DE BASE DE DATOS

CD CURSO: EIF402

PROFESOR: Carlos Espinoza Chavarria

Quiz Prueba 2

Presentado por:

Nombre			Participación (%)	Carné	Firma
1° Apellido	2° Apellido	Nombres			
Guevara	Gómez	Emilio	100%	504250044	

Total
100%

Nota:

La sumatoria de los porcentajes siempre deberá sumar 100%. Lo cual indicará la verdadera participación del estudiante al equipo de trabajo, si es que fueran dos o más estudiantes los integrantes del grupo.

II CICLO 2024



Quiz 2

--Emilio Guevara Gomez--
-----Quiz 2-----

--Crear la base de datos 'pubs'
CREATE DATABASE pubs;
GO

-- Usar la base de datos 'pubs'
USE pubs;
GO

--Crear la tabla 'titles'
CREATE TABLE titles (
 title_id INT IDENTITY(1,1) PRIMARY KEY,
 title NVARCHAR(100),
 type NVARCHAR(50),
 pub_id INT,
 price DECIMAL(10, 2),
 pubdate DATE
);
GO

-- Insertar registros en la tabla 'titles'
INSERT INTO titles (title, type, pub_id, price, pubdate)
VALUES
('Business Book 1', 'business', 1, 30.00, '2023-01-01'),
('Business Book 2', 'business', 1, 25.00, '2023-01-02'),
('Business Book 3', 'business', 1, 20.00, '2023-01-03'),
('Popular Book 1', 'popular_comp', 2, 15.00, '2023-02-01'),
('Popular Book 2', 'popular_comp', 2, 10.00, '2023-02-02'),
('Popular Book 3', 'popular_comp', 2, 12.00, '2023-02-03'),
('Psychology Book 1', 'psychology', 3, 22.00, '2023-03-01'),
('Psychology Book 2', 'psychology', 3, 18.00, '2023-03-02');
GO

-- comando para ver si se insertaron datos en la tabla

SELECT * FROM titles;

-----Parte N1-----

-- Usar la base de datos 'pubs'
USE pubs;
GO

-- Crear una copia de la tabla 'titles' llamada 'SuperTitles'
SELECT * INTO dbo.SuperTitles FROM titles; -- Crear la copia
GO



-- Iniciar la transacción

BEGIN TRANSACTION;

BEGIN TRY

-- Contar registros eliminados para 'business' y 'popular_comp'

DECLARE @DeletedBusiness INT;

DECLARE @DeletedPopularComp INT;

-- Eliminar registros con tipo 'business' y contar cuántos se eliminaron

DELETE FROM SuperTitles

WHERE type = 'business';

SET @DeletedBusiness = @@ROWCOUNT;

-- Eliminar registros con tipo 'popular_comp' y contar cuántos se eliminaron

DELETE FROM SuperTitles

WHERE type = 'popular_comp';

SET @DeletedPopularComp = @@ROWCOUNT;

-- Eliminar registros con tipo 'psychology' (no se cuenta)

DELETE FROM SuperTitles

WHERE type = 'psychology';

-- Verificar si se eliminaron 3 o más registros de 'business' o 'popular_comp'

IF @DeletedBusiness + @DeletedPopularComp >= 3

BEGIN

-- Revertir la transacción si hay 3 o más registros eliminados

ROLLBACK TRANSACTION;

PRINT 'Eliminación revertida. Se eliminaron 3 o más registros de "business" o "popular_comp".';

END

ELSE

BEGIN

-- Confirmar la transacción si no se cumplen las condiciones anteriores

COMMIT TRANSACTION;

PRINT 'Transacción completada. Solo los registros de "psychology" han sido eliminados.';

END

END TRY

BEGIN CATCH

-- En caso de error, revertir la transacción

ROLLBACK TRANSACTION;

PRINT 'Ocurrió un error. Se ha revertido la transacción.';

END CATCH;

-- Ver los datos restantes en la tabla 'SuperTitles' después del proceso

SELECT * FROM SuperTitles;

GO



-----Parte N2-----

-- Usar la base de datos 'pubs'
USE pubs;
GO

-- Comenzar una transacción para realizar calculos matematicos
BEGIN TRANSACTION;

-- Variable para contar cuántos registros se actualizan
DECLARE @RegistrosActualizados INT;

-- Actualizar precios de los libros de tipo 'business' y contar registros afectados
UPDATE titles
SET price = price * 1.10
WHERE type = 'business';

-- Contar cuántos registros se han actualizado
SET @RegistrosActualizados = @@ROWCOUNT;

-- Verificar si se actualizaron 5 o más registros
IF @RegistrosActualizados >= 5
BEGIN
ROLLBACK TRANSACTION;
PRINT 'La transacción fue revertida porque se actualizaron 5 libros o más .';
END
ELSE
BEGIN
COMMIT TRANSACTION;
PRINT 'Los precios han sido actualizados de manera exitosa.';
END
GO

Script generado

USE [master]
GO
/***** Object: Database [pubs] Script Date: 26/10/2024 10:30:44 *****/
CREATE DATABASE [pubs]
CONTAINMENT = NONE
ON PRIMARY
(NAME = N'pubs', FILENAME = N'C:\Program Files\Microsoft SQL
Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\pubs.mdf', SIZE = 8192KB, MAXSIZE = UNLIMITED,
FILEGROWTH = 65536KB)
LOG ON
(NAME = N'pubs_log', FILENAME = N'C:\Program Files\Microsoft SQL
Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\pubs_log.ldf', SIZE = 8192KB, MAXSIZE = 2048GB,
FILEGROWTH = 65536KB)
WITH CATALOG_COLLATION = DATABASE_DEFAULT, LEDGER = OFF
GO



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ALTER DATABASE [pubs] SET COMPATIBILITY_LEVEL = 160
GO
IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))
begin
EXEC [pubs].[dbo].[sp_fulltext_database] @action = 'enable'
end
GO
ALTER DATABASE [pubs] SET ANSI_NULL_DEFAULT OFF
GO
ALTER DATABASE [pubs] SET ANSI_NULLS OFF
GO
ALTER DATABASE [pubs] SET ANSI_PADDING OFF
GO
ALTER DATABASE [pubs] SET ANSI_WARNINGS OFF
GO
ALTER DATABASE [pubs] SET ARITHABORT OFF
GO
ALTER DATABASE [pubs] SET AUTO_CLOSE ON
GO
ALTER DATABASE [pubs] SET AUTO_SHRINK OFF
GO
ALTER DATABASE [pubs] SET AUTO_UPDATE_STATISTICS ON
GO
ALTER DATABASE [pubs] SET CURSOR_CLOSE_ON_COMMIT OFF
GO
ALTER DATABASE [pubs] SET CURSOR_DEFAULT GLOBAL
GO
ALTER DATABASE [pubs] SET CONCAT_NULL_YIELDS_NULL OFF
GO
ALTER DATABASE [pubs] SET NUMERIC_ROUNDABORT OFF
GO
ALTER DATABASE [pubs] SET QUOTED_IDENTIFIER OFF
GO
ALTER DATABASE [pubs] SET RECURSIVE_TRIGGERS OFF
GO
ALTER DATABASE [pubs] SET  ENABLE_BROKER
GO
ALTER DATABASE [pubs] SET AUTO_UPDATE_STATISTICS_ASYNC OFF
GO
ALTER DATABASE [pubs] SET DATE_CORRELATION_OPTIMIZATION OFF
GO
ALTER DATABASE [pubs] SET TRUSTWORTHY OFF
GO
ALTER DATABASE [pubs] SET ALLOW_SNAPSHOT_ISOLATION OFF
GO
ALTER DATABASE [pubs] SET PARAMETERIZATION SIMPLE
GO
ALTER DATABASE [pubs] SET READ_COMMITTED_SNAPSHOT OFF
GO
ALTER DATABASE [pubs] SET HONOR_BROKER_PRIORITY OFF
GO
ALTER DATABASE [pubs] SET RECOVERY SIMPLE
GO
ALTER DATABASE [pubs] SET  MULTI_USER
GO
ALTER DATABASE [pubs] SET PAGE_VERIFY CHECKSUM
```



```
GO
ALTER DATABASE [pubs] SET DB_CHAINING OFF
GO
ALTER DATABASE [pubs] SET FILESTREAM( NON_TRANSACTED_ACCESS = OFF )
GO
ALTER DATABASE [pubs] SET TARGET_RECOVERY_TIME = 60 SECONDS
GO
ALTER DATABASE [pubs] SET DELAYED_DURABILITY = DISABLED
GO
ALTER DATABASE [pubs] SET ACCELERATED_DATABASE_RECOVERY = OFF
GO
ALTER DATABASE [pubs] SET QUERY_STORE = ON
GO
ALTER DATABASE [pubs] SET QUERY_STORE (OPERATION_MODE = READ_WRITE,
CLEANUP_POLICY = (STALE_QUERY_THRESHOLD_DAYS = 30), DATA_FLUSH_INTERVAL_SECONDS
= 900, INTERVAL_LENGTH_MINUTES = 60, MAX_STORAGE_SIZE_MB = 1000,
QUERY_CAPTURE_MODE = AUTO, SIZE_BASED_CLEANUP_MODE = AUTO,
MAX_PLANS_PER_QUERY = 200, WAIT_STATS_CAPTURE_MODE = ON)
GO
USE [pubs]
GO
/***** Object: Table [dbo].[titles]  Script Date: 26/10/2024 10:30:44 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[titles](
    [title_id] [int] IDENTITY(1,1) NOT NULL,
    [title] [nvarchar](100) NULL,
    [type] [nvarchar](50) NULL,
    [pub_id] [int] NULL,
    [price] [decimal](10, 2) NULL,
    [pubdate] [date] NULL,
    PRIMARY KEY CLUSTERED
    (
        [title_id] ASC
    )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
    ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF)
    ON [PRIMARY]
) ON [PRIMARY]
GO
SET IDENTITY_INSERT [dbo].[titles] ON

INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (1, N'Business Book 1',
N'business', 1, CAST(30.00 AS Decimal(10, 2)), CAST(N'2023-01-01' AS Date))
INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (2, N'Business Book 2',
N'business', 1, CAST(25.00 AS Decimal(10, 2)), CAST(N'2023-01-02' AS Date))
INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (3, N'Business Book 3',
N'business', 1, CAST(20.00 AS Decimal(10, 2)), CAST(N'2023-01-03' AS Date))
INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (4, N'Popular Book 1',
N'popular_comp', 2, CAST(15.00 AS Decimal(10, 2)), CAST(N'2023-02-01' AS Date))
INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (5, N'Popular Book 2',
N'popular_comp', 2, CAST(10.00 AS Decimal(10, 2)), CAST(N'2023-02-02' AS Date))
INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (6, N'Popular Book 3',
N'popular_comp', 2, CAST(12.00 AS Decimal(10, 2)), CAST(N'2023-02-03' AS Date))
```

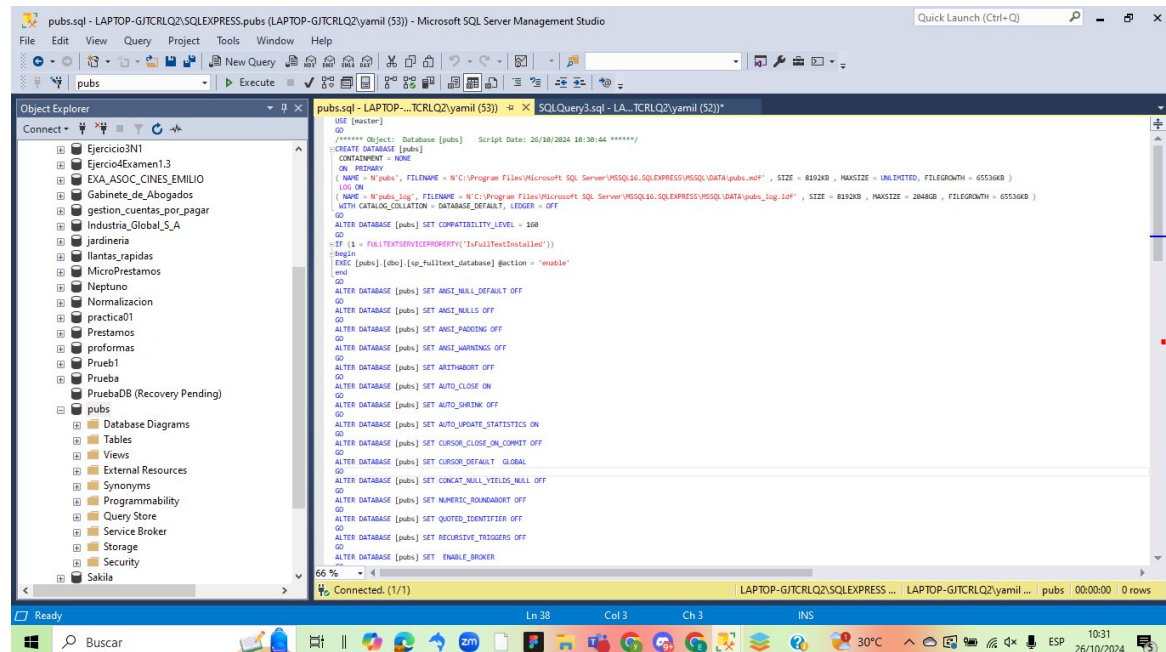


```
INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (7, N'Psychology Book 1',  
N'psychology', 3, CAST(22.00 AS Decimal(10, 2)), CAST(N'2023-03-01' AS Date))  
INSERT [dbo].[titles] ([title_id], [title], [type], [pub_id], [price], [pubdate]) VALUES (8, N'Psychology Book 2',  
N'psychology', 3, CAST(18.00 AS Decimal(10, 2)), CAST(N'2023-03-02' AS Date))  
SET IDENTITY_INSERT [dbo].[titles] OFF  
GO  
USE [master]  
GO  
ALTER DATABASE [pubs] SET READ_WRITE  
GO
```

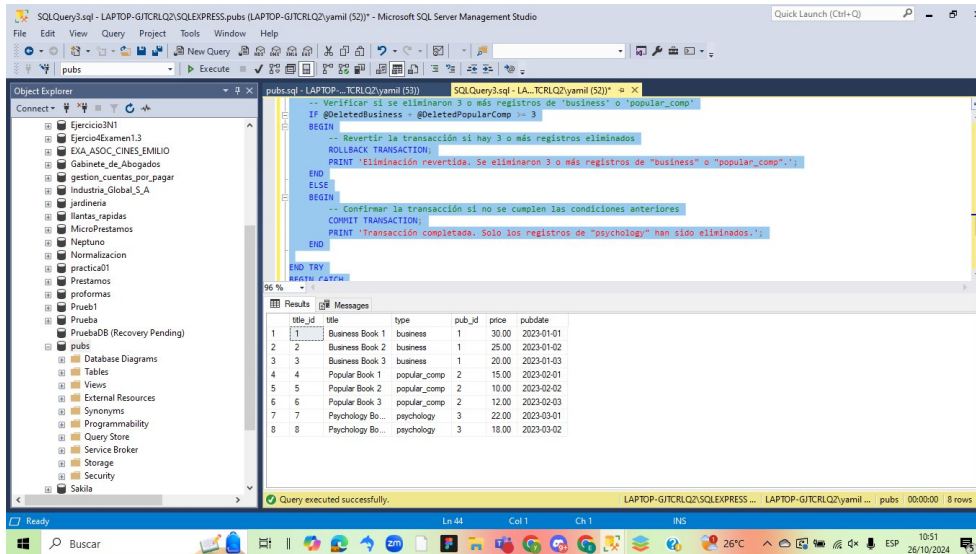


Pruebas

1. Generación de scripts



2. Ver copia y resultado de transacción



Parte 2

Incremento en precios

