USE ModelAGENCY

go

CREATE TABLE Version

(Vid INT PRIMARY KEY IDENTITY,

[version] INT);

/\*

--add/drop column

ALTER TABLE Model

ADD DofB VARCHAR(50)

SELECT \*

FROM Model

ALTER TABLE Model

DROP COLUMN DofB

SELECT \*

FROM Model

--create/drop table

CREATE TABLE ElleStyleAward

(Eid INT NOT NULL,

NoOfParticipants INT,

Location VARCHAR(50),

Date VARCHAR(50))

SELECT \*

FROM ElleStyleAward

DROP TABLE ElleStyleAward

--add/drop primary key

ALTER TABLE ElleStyleAward

ADD CONSTRAINT pk\_ElleStyleAward PRIMARY KEY(Eid)

ALTER TABLE ElleStyleAward

DROP CONSTRAINT pk\_ElleStyleAward

--add/drop foreign key

ALTER TABLE ElleStyleAward

ADD CONSTRAINT fk\_ElleStyleAward FOREIGN KEY(Eid) REFERENCES Model(Mid)

ALTER TABLE ElleStyleAward

DROP CONSTRAINT fk\_ElleStyleAward

\*/

--procedure that adds a column

GO

CREATE PROCEDURE ups\_createNewColumn

AS

BEGIN

ALTER TABLE Model

ADD [DofB] VARCHAR(50)

PRINT 'Column reguarding date of birth has been succesfully added to the Model table'

UPDATE Version

SET version=1

END

EXEC ups\_createNewColumn

--procedure that deletes a column

GO

CREATE PROCEDURE ups\_deleteNewColumn

AS

BEGIN

ALTER TABLE Model

DROP COLUMN [DofB]

PRINT 'Column reguarding date of birth has been succesfully removed to the Model table'

UPDATE Version

SET version=0;

END

EXEC ups\_deleteNewColumn

--procedure that creates a new table

GO

CREATE PROCEDURE ups\_createNewTable

AS

BEGIN

CREATE TABLE ElleStyleAward

(Eid INT NOT NULL,

NoOfParticipants INT,

Location VARCHAR(50),

Date VARCHAR(50))

PRINT 'Table ElleStyleAward has been succesfully created'

UPDATE Version

SET version=2;

END

EXEC ups\_createNewTable

--procedure that deletes the new table

GO

CREATE PROCEDURE ups\_deleteNewTable

AS

BEGIN

DROP TABLE ElleStyleAward

PRINT 'Table ElleStyleAward has been succesfully deleted'

UPDATE Version

SET version=1;

END

EXEC ups\_deleteNewTable

--procedure that adds primary key

GO

CREATE PROCEDURE ups\_addPrimaryKey

AS

BEGIN

ALTER TABLE ElleStyleAward

ADD CONSTRAINT pk\_ElleStyleAward PRIMARY KEY(Eid)

PRINT 'The ElleStyleAward table has now a primary key'

UPDATE Version

SET version=3;

END

EXEC ups\_addPrimaryKey

--procedure that deletes primary key

GO

CREATE PROCEDURE ups\_deletePrimaryKey

AS

BEGIN

ALTER TABLE ElleStyleAward

DROP CONSTRAINT pk\_ElleStyleAward

PRINT 'The primary key of the ElleStyleAward has been deleted'

UPDATE Version

SET version=2;

END

EXEC ups\_deletePrimaryKey

--procedure that adds foreign key

GO

CREATE PROCEDURE ups\_addForeignKey

AS

BEGIN

ALTER TABLE ElleStyleAward

ADD CONSTRAINT fk\_ElleStyleAward FOREIGN KEY(Eid) REFERENCES Model(Mid)

PRINT 'The ElleStyleAward table has now a foreign key'

UPDATE Version

SET version=4;

END

EXEC ups\_addForeignKey

--procedure that deletes foreign key

GO

CREATE PROCEDURE ups\_deleteForeignKey

AS

BEGIN

ALTER TABLE ElleStyleAward

DROP CONSTRAINT fk\_ElleStyleAward

PRINT 'The foreign key of the ElleStyleAward has been deleted'

UPDATE Version

SET version=3;

END

EXEC ups\_deleteForeignKey

INSERT INTO Version

(version)

VALUES

(0);

--drop procedure ups\_back

GO

CREATE PROCEDURE ups\_back

(@version INT)

AS

BEGIN

DECLARE @currentVersion INT=(SELECT [version]

FROM [Version])

IF @currentVersion = 4 AND @version = 0

BEGIN

EXEC ups\_deleteForeignKey

EXEC ups\_deletePrimaryKey

EXEC ups\_deleteNewTable

EXEC ups\_deleteNewColumn

END;

ELSE

IF @currentVersion = 4 AND @version = 1

BEGIN

EXEC ups\_deleteForeignKey

EXEC ups\_deletePrimaryKey

EXEC ups\_deleteNewTable

END;

ELSE

IF @currentVersion = 4 AND @version = 2

BEGIN

EXEC ups\_deleteForeignKey

EXEC ups\_deletePrimaryKey

END;

ELSE

IF @currentVersion = 4 AND @version = 3

BEGIN

EXEC ups\_deleteForeignKey

END;

ELSE

IF @currentVersion = 3 AND @version = 0

BEGIN

EXEC ups\_deletePrimaryKey

EXEC ups\_deleteNewTable

EXEC ups\_deleteNewColumn

END;

ELSE

IF @currentVersion = 3 AND @version = 1

BEGIN

EXEC ups\_deletePrimaryKey

EXEC ups\_deleteNewTable

END;

ELSE

IF @currentVersion = 3 AND @version = 2

BEGIN

EXEC ups\_deletePrimaryKey

END;

ELSE

IF @currentVersion = 2 AND @version = 0

BEGIN

EXEC ups\_deleteNewTable

EXEC ups\_deleteNewColumn

END;

ELSE

IF @currentVersion = 2 AND @version = 1

BEGIN

EXEC ups\_deleteNewTable

END;

ELSE

IF @currentVersion = 1 AND @version = 0

BEGIN

EXEC ups\_deleteNewColumn

END;

ELSE

IF @currentVersion = 0 AND @version = 4

BEGIN

EXEC ups\_createNewColumn

EXEC ups\_createNewTable

EXEC ups\_addPrimaryKey

EXEC ups\_addForeignKey

END;

ELSE

IF @currentVersion = 1 AND @version = 4

BEGIN

EXEC ups\_createNewTable

EXEC ups\_addPrimaryKey

EXEC ups\_addForeignKey

END;

ELSE

IF @currentVersion = 2 AND @version = 4

BEGIN

EXEC ups\_addPrimaryKey

EXEC ups\_addForeignKey

END;

ELSE

IF @currentVersion = 3 AND @version = 4

BEGIN

EXEC ups\_addForeignKey

END;

ELSE

IF @currentVersion = 0 AND @version = 3

BEGIN

EXEC ups\_createNewColumn

EXEC ups\_createNewTable

EXEC ups\_addPrimaryKey

END;

ELSE

IF @currentVersion = 1 AND @version = 3

BEGIN

EXEC ups\_createNewTable

EXEC ups\_addPrimaryKey

END;

ELSE

IF @currentVersion = 2 AND @version = 3

BEGIN

EXEC ups\_addPrimaryKey

END;

ELSE

IF @currentVersion = 0 AND @version = 2

BEGIN

EXEC ups\_createNewColumn

EXEC ups\_createNewTable

END;

ELSE

IF @currentVersion = 1 AND @version = 2

BEGIN

EXEC ups\_createNewTable

END;

ELSE

IF @currentVersion = 0 AND @version = 1

BEGIN

EXEC ups\_createNewColumn

END;

END;

GO

CREATE PROCEDURE ups\_operate

AS

BEGIN

EXEC ups\_back 0

EXEC ups\_createNewColumn

EXEC ups\_back 0

EXEC ups\_createNewColumn

EXEC ups\_createNewTable

EXEC ups\_back 0

EXEC ups\_createNewColumn

EXEC ups\_createNewTable

EXEC ups\_addPrimaryKey

EXEC ups\_back 0

EXEC ups\_createNewColumn

EXEC ups\_createNewTable

EXEC ups\_addPrimaryKey

EXEC ups\_addForeignKey

EXEC ups\_back 0

END;