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-- Database creation Script

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-- Table Creation --

-- Each entity on the model is represented by a table that needs to be created within the Database.

-- Within SQL new tables are created using the CREATE TABLE command.

-- When a table is created its name and its attributes are defined.

-- The values of which are derived from those specified on the model.

-- Certain constraints are sometimes also specified, such as identification of primary keys.

DROP table dept\_dim CASCADE CONSTRAINTs;

DROP table time\_dim CASCADE CONSTRAINTs;

DROP table fact\_emp CASCADE CONSTRAINTs;

-- Create a Database table to represent the "dept\_dim" entity.

CREATE TABLE dept\_dim(

deptno INTEGER NOT NULL,

dept\_desc VARCHAR(10),

Date\_effective DATE, -- to support SCD type 3

-- Specify the PRIMARY KEY constraint for table "dept\_dim".

-- This indicates which attribute(s) uniquely identify each row of data.

PRIMARY KEY (deptno)

);

-- Create a Database table to represent the "time\_dim" entity.

CREATE TABLE time\_dim(

time\_id INTEGER NOT NULL,

time\_period INTEGER,

-- Specify the PRIMARY KEY constraint for table "time\_dim".

-- This indicates which attribute(s) uniquely identify each row of data.

PRIMARY KEY (time\_id)

);

CREATE TABLE fact\_emp(

fact\_id INTEGER NOT NULL,

Deptno INTEGER NOT NULL,

time\_id INTEGER NOT NULL,

no\_employees INTEGER,

PRIMARY KEY (fact\_id));

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-- Alter Tables to add fk constraints --

-- Now all the tables have been created the ALTER TABLE command is used to define some additional

-- constraints. These typically constrain values of foreign keys to be associated in some way

-- with the primary keys of related tables. Foreign key constraints can actually be specified

-- when each table is created, but doing so can lead to dependency problems within the script

-- i.e. tables may be referenced before they have been created. This method is therefore safer.

-- Alter table to add new constraints required to implement the "relates\_to" relationship

-- This constraint ensures that the foreign key of table "FACT\_emp"

-- correctly references the primary key of table "dept\_dim"

ALTER TABLE FACT\_emp ADD CONSTRAINT fk1\_FACT\_emp\_to\_dept\_dim FOREIGN KEY(deptno) REFERENCES dept\_dim(deptno) ;

-- Alter table to add new constraints required to implement the "relates\_to" relationship

-- This constraint ensures that the foreign key of table "FACT\_emp"

-- correctly references the primary key of table "time\_dim"

ALTER TABLE FACT\_emp ADD CONSTRAINT fk2\_FACT\_emp\_to\_time\_dim FOREIGN KEY(time\_id) REFERENCES time\_dim(time\_id) ;

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-- End of DDL file auto-generation

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