CREATE DATABASE db\_zoo;

CREATE TABLE tbl\_animalia(

animalia\_id INT PRIMARY KEY NOT NULL IDENTITY (1,2),

animalia\_type VARCHAR(30)NOT NULL

);

INSERT INTO tbl\_animalia (animalia\_type)

VALUES

('vertebrate'),

('invertebrate');

SELECT \*

FROM tbl\_animalia;

-----------------------------------------------------------------

CREATE TABLE tbl\_class(

class\_id INT PRIMARY KEY NOT NULL IDENTITY (100,1),

class\_type VARCHAR(50) NOT NULL);

INSERT INTO tbl\_class(class\_type)

VALUES

('bird'),

('reptilian'),

('mammal'),

('arthropod'),

('fish'),

('worm'),

('cnidaria'),

('echinoderm');

SELECT \* FROM tbl\_class;

---------------------------------------

UPDATE tbl\_class

SET class\_type = 'birds'

WHERE class\_type = 'bird';

SELECT REPLACE(class\_type, 'bird', 'birds')

FROM tbl\_class;

SELECT class\_type

FROM tbl\_class

WHERE class\_type = 'bird';

SELECT UPPER(class\_type)

FROM tbl\_class

WHERE class\_type = 'bird';

SELECT COUNT(class\_type)

FROM tbl\_class

WHERE class\_type = 'bird';

----------------------------------------------------------

CREATE TABLE tbl\_persons(

persons\_id INT PRIMARY KEY NOT NULL IDENTITY (1,1),

persons\_fname VARCHAR(50) NOT NULL,

persons\_lname VARCHAR(50) NOT NULL,

persons\_contact VARCHAR(50) NOT NULL);

INSERT INTO tbl\_persons(persons\_fname, persons\_lname, persons\_contact)

VALUES

('bob', 'smith', '232-345-5768'),

('marry', 'ann', '232-345-5768'),

('tim', 'martin', '232-345-5768'),

('john', 'lee', '232-345-5768'),

('myke', 'tyson', '232-345-5768');

SELECT persons\_fname, persons\_lname, persons\_contact

FROM tbl\_persons

WHERE persons\_id BETWEEN 1 AND 5;

SELECT persons\_fname, persons\_lname, persons\_contact

FROM tbl\_persons

WHERE persons\_lname LIKE 'ty%';

--------------------------------------------------------------------------

SELECT persons\_fname, persons\_lname, persons\_contact

FROM tbl\_persons

WHERE persons\_lname LIKE '\_t%n';

UPDATE tbl\_persons

SET persons\_fname = 'chan'

WHERE persons\_fname = 'bob';

SELECT persons\_fname, persons\_lname, persons\_contact

FROM tbl\_persons

WHERE persons\_fname LIKE 't%'

ORDER BY persons\_lname;

SELECT persons\_fname AS 'First Name',

persons\_lname AS 'Last Name',

persons\_contact AS 'Phone:'

FROM tbl\_persons

WHERE persons\_fname LIKE 't%'

ORDER BY persons\_lname;

DELETE FROM tbl\_persons

WHERE persons\_lname = 'smith';

DROP TABLE tbl\_persons;

----------------------------------------------------------------------------------

CREATE TABLE tbl\_order(

order\_id INT PRIMARY KEY NOT NULL IDENTITY (1,1),

order\_type VARCHAR(50)NOT NULL

);

CREATE TABLE tbl\_care(

care\_id VARCHAR(50) PRIMARY KEY NOT NULL,

care\_type VARCHAR(50) NOT NULL,

care\_specialist INT NOT NULL

);

CREATE TABLE tbl\_nutrition(

nutrition\_id INT PRIMARY KEY NOT NULL IDENTITY (2200,1),

nutrition\_type VARCHAR(50) NOT NULL,

nutrition\_cost MONEY NOT NULL

);

CREATE TABLE tbl\_habitat(

habitat\_id INT PRIMARY KEY NOT NULL IDENTITY (5000,1),

habitat\_type VARCHAR(50) NOT NULL,

habitat\_cost MONEY NOT NULL

);

CREATE TABLE tbl\_specialist(

specialist\_id INT PRIMARY KEY NOT NULL IDENTITY (1,1),

specialist\_fname VARCHAR(50) NOT NULL,

specialist\_lname VARCHAR(50) NOT NULL,

specialist\_contact VARCHAR(50) NOT NULL

);

---------------------------------------------------------------------

INSERT INTO tbl\_order(order\_type)

VALUES

('carnivore'),

('herbivore'),

('omnivore')

;

SELECT \* FROM tbl\_order;

INSERT INTO tbl\_care(care\_id, care\_type, care\_specialist)

VALUES

('care\_0', 'replace the straw', 1),

('care\_1', 'repair or replace broken toys', 4),

('care\_2', 'bottle feed vitamins', 1),

('care\_3', 'human contact\_pet subject', 2),

('care\_4', 'clean up animal waste', 1),

('care\_5', 'move subject to exercise pen', 3),

('care\_6', 'drain and refill aquarium', 1),

('care\_7', 'extensive dental work', 3)

;

SELECT \* FROM tbl\_care;

-------------------------------------------------------------------------

INSERT INTO tbl\_nutrition(nutrition\_type, nutrition\_cost)

VALUES

('raw fish', 1500),

('living rodents', 600),

('mixture of fruit and rice', 800),

('warm bottle of milk', 600),

('syringe fed broth', 600),

('lard and seed mix', 300),

('aphids', 150),

('vitamins and marrow', 3500)

;

SELECT \* FROM tbl\_nutrition;

INSERT INTO tbl\_habitat(habitat\_type, habitat\_cost)

VALUES

('tundra', 40000),

('grassy knoll with trees', 12000),

('10 ft pond and rocks', 30000),

('icy aquarium with snowy facade', 50000),

('short grass, shade and moat ', 50000),

('netted forrest atrium', 10000),

('jungle vines and winding branches', 15000),

('cliff with shaded cave', 15000)

;

SELECT \* FROM tbl\_habitat;

----------------------------------------------------------------

INSERT INTO tbl\_specialist(specialist\_fname, specialist\_lname, specialist\_contact)

VALUES

('margaret', 'nguyen', '384-576-28899'),

('mary', 'fischer', '384-784-4856'),

('arnold', 'holden', '385-475-3944'),

('kem', 'byesan', '384-485-4855'),

('delmonte', 'fyedo', '768-288-3749')

;

SELECT \* FROM tbl\_specialist;

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CREATE TABLE tbl\_species(

species\_id INT PRIMARY KEY NOT NULL IDENTITY (1,1),

species\_name VARCHAR(50) NOT NULL,

species\_animalia INT NOT NULL CONSTRAINT fk\_animalia\_id FOREIGN KEY REFERENCES tbl\_animalia(animalia\_id) ON UPDATE CASCADE ON DELETE CASCADE,

species\_class INT NOT NULL CONSTRAINT fk\_class\_id FOREIGN KEY REFERENCES tbl\_class(class\_id) ON UPDATE CASCADE ON DELETE CASCADE,

species\_order INT NOT NULL CONSTRAINT fk\_order\_id FOREIGN KEY REFERENCES tbl\_order(order\_id) ON UPDATE CASCADE ON DELETE CASCADE,

species\_habitat INT NOT NULL CONSTRAINT fk\_habitat\_id FOREIGN KEY REFERENCES tbl\_habitat(habitat\_id) ON UPDATE CASCADE ON DELETE CASCADE,

species\_nutrition INT NOT NULL CONSTRAINT fk\_nutrition\_id FOREIGN KEY REFERENCES tbl\_nutrition(nutrition\_id) ON UPDATE CASCADE ON DELETE CASCADE,

species\_care VARCHAR(50) NOT NULL CONSTRAINT fk\_care\_id FOREIGN KEY REFERENCES tbl\_care(care\_id) ON UPDATE CASCADE ON DELETE CASCADE

);

INSERT INTO tbl\_species(species\_name, species\_animalia, species\_class, species\_order, species\_habitat, species\_nutrition, species\_care)

VALUES

('brown bear', 1, 102, 3, 5007, 2200, 'care\_1'),

('jaguar', 1, 102, 1, 5007, 2200, 'care\_4'),

('penguin', 1, 100, 1, 5003, 2200, 'care\_6' ),

('ghost bat', 1, 102, 1, 5007, 2204, 'care\_2'),

('chicken', 1, 100, 3, 5001, 2205, 'care\_0'),

('panda', 1, 102, 3, 5006, 2202, 'care\_4'),

('bobcat', 1, 102, 1, 5001, 2204, 'care\_5'),

('grey wolf', 1, 102, 1, 5000, 2201, 'care\_4')

;

SELECT \* FROM tbl\_species;

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SELECT \*

FROM tbl\_species

WHERE species\_name = 'chicken';

SELECT

a1.species\_name, a2.animalia\_type, a3.class\_type, a4.order\_type, a5.habitat\_type, a6.nutrition\_type, a7.care\_type

FROM tbl\_species a1

INNER JOIN tbl\_animalia a2 ON a2.animalia\_id = a1.species\_animalia

INNER JOIN tbl\_class a3 ON a3.class\_id = a1.species\_class

INNER JOIN tbl\_order a4 ON a4.order\_id = a1.species\_order

INNER JOIN tbl\_habitat a5 ON a5.habitat\_id = a1.species\_habitat

INNER JOIN tbl\_nutrition a6 ON a6.nutrition\_id = a1.species\_nutrition

INNER JOIN tbl\_care a7 ON a7.care\_id = a1.species\_care

WHERE species\_name = 'brown bear'

;

SELECT

a1.species\_name, a2.habitat\_type, a2.habitat\_cost, a3.nutrition\_type, a3.nutrition\_cost

FROM tbl\_species a1

INNER JOIN tbl\_habitat a2 ON a2.habitat\_id = a1.species\_habitat

INNER JOIN tbl\_nutrition a3 ON a3.nutrition\_id = a1.species\_nutrition

WHERE species\_name = 'ghost bat'

;

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SELECT \* FROM tbl\_nutrition;

SELECT \* FROM tbl\_species;

SELECT \*

FROM tbl\_nutrition

INNER JOIN tbl\_species ON tbl\_species.species\_nutrition = tbl\_nutrition.nutrition\_id;

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/\*

Zoo Assignment #-1

SELECT \* FROM tbl\_habitat;

Zoo Assignment #-2

SELECT \* FROM tbl\_species

WHERE species\_id = 3;

Zoo Assignment #-3

SELECT \* FROM tbl\_nutrition

WHERE nutrition\_cost <= 600;

Zoo Assignment #-4

SELECT nutrition\_id, species\_name

FROM tbl\_nutrition

INNER JOIN tbl\_species ON tbl\_species.species\_nutrition = tbl\_nutrition.nutrition\_id

WHERE nutrition\_id BETWEEN 2202 AND 2206;

Zoo Assignment #-5

SELECT nutrition\_type AS 'Nutrition Type', species\_name AS 'Species Name'

FROM tbl\_nutrition

INNER JOIN tbl\_species ON tbl\_species.species\_nutrition = tbl\_nutrition.nutrition\_id

Zoo Assignment #-6

SELECT specialist\_fname, specialist\_lname, specialist\_contact

FROM tbl\_specialist

INNER JOIN tbl\_species ON tbl\_species.species\_id = tbl\_specialist.specialist\_id

WHERE species\_name = 'penguin';

\*/