**Databases 2 Assignment**

**Pet Shop Model**

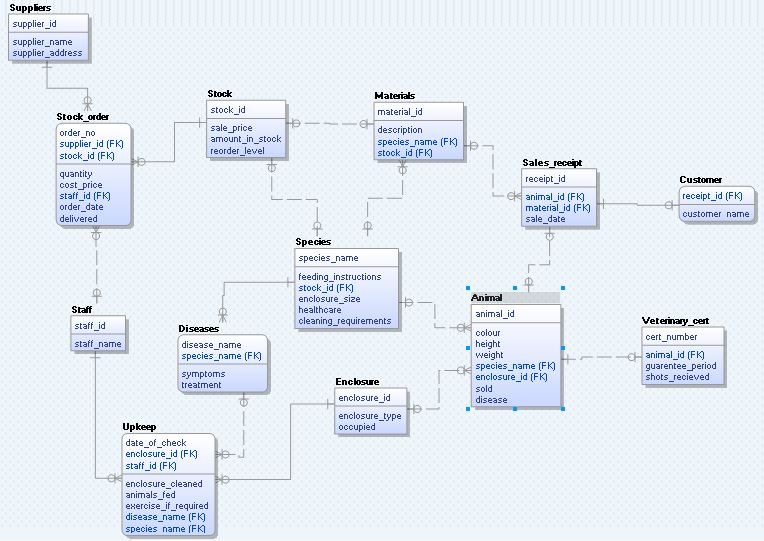
**Group Name: Pet AU D**

**Members: Gary Healy, Stefan Burke, Francis Marron**

**Deliverable 2**



**Due Date: 27/10/14  
  
  
  
GitHub Link: https://github.com/gazh1987/PET-AU**



DROP TABLE Upkeep;

DROP TABLE Diseases;

DROP TABLE Customer;

DROP TABLE Sales\_receipt;

DROP TABLE Materials;

DROP TABLE Veterinary\_cert;

DROP TABLE Animal;

DROP TABLE Enclosure;

DROP TABLE Species;

DROP TABLE Stock\_order;

DROP TABLE Stock;

DROP TABLE Suppliers;

DROP TABLE Staff;

CREATE TABLE Staff

(

staff\_id INT NOT NULL ,

staff\_name varchar(20) NULL ,

PRIMARY KEY (staff\_id)

);

CREATE TABLE Suppliers

(

supplier\_id INT NOT NULL ,

supplier\_name VARCHAR(20) NULL ,

supplier\_address VARCHAR(40) NULL ,

PRIMARY KEY (supplier\_id)

);

CREATE TABLE Stock

(

stock\_id INT NOT NULL ,

sale\_price NUMBER (19, 4) NULL ,

amount\_in\_stock INT NULL ,

reorder\_level INT NULL ,

PRIMARY KEY (stock\_id)

);

CREATE TABLE Stock\_order

(

order\_no INT NOT NULL ,

supplier\_id INT NOT NULL ,

stock\_id INT NOT NULL,

quantity INT NULL ,

cost\_price NUMBER(19,4) NULL ,

staff\_id INT NULL ,

order\_date date NULL ,

delivered char(1) NOT NULL,

PRIMARY KEY (order\_no, supplier\_id),

FOREIGN KEY (staff\_id) REFERENCES Staff (staff\_id),

FOREIGN KEY (supplier\_id) REFERENCES Suppliers(supplier\_id),

FOREIGN KEY (stock\_id) REFERENCES Stock(stock\_id)

);

CREATE TABLE Species

(

species\_name VARCHAR(20) NOT NULL ,

feeding\_instructions VARCHAR(50) NULL ,

stock\_id INT NULL ,

enclosure\_size VARCHAR(20) NULL ,

healthcare VARCHAR(50) NULL ,

cleaning\_requirements VARCHAR(50) NULL ,

PRIMARY KEY (species\_name),

FOREIGN KEY (stock\_id) REFERENCES Stock(stock\_id)

);

CREATE TABLE Enclosure

(

enclosure\_id INT NOT NULL ,

enclosure\_type VARCHAR(20) NULL ,

occupied char(1) NOT NULL,

PRIMARY KEY (enclosure\_id)

);

CREATE TABLE Animal

(

animal\_id INT NOT NULL ,

colour VARCHAR(20) NULL ,

height VARCHAR(20) NULL ,

weight VARCHAR(20) NULL ,

species\_name VARCHAR(20) NULL ,

enclosure\_id INT NULL ,

treatment VARCHAR(20) NULL ,

sold CHAR(1) NOT NULL ,

disease CHAR(1) NOT NULL,

PRIMARY KEY (animal\_id),

FOREIGN KEY (species\_name) REFERENCES Species(species\_name),

FOREIGN KEY (enclosure\_id) REFERENCES Enclosure(enclosure\_id)

);

CREATE TABLE Veterinary\_cert

(

cert\_number INT NOT NULL ,

animal\_id INT NOT NULL ,

guarentee\_period VARCHAR(20) NULL ,

shots\_recieved VARCHAR(20) NULL ,

PRIMARY KEY (cert\_number),

FOREIGN KEY (animal\_id) REFERENCES Animal(animal\_id)

);

CREATE TABLE Materials

(

material\_id INT NOT NULL ,

description VARCHAR(40) NULL ,

species\_name VARCHAR(20) NULL ,

stock\_id INT NULL ,

PRIMARY KEY (material\_id),

FOREIGN KEY (species\_name) REFERENCES Species(species\_name),

FOREIGN KEY (stock\_id) REFERENCES Stock(stock\_id)

);

CREATE TABLE Sales\_receipt

(

receipt\_id INT NOT NULL ,

animal\_id INT NULL ,

material\_id INT NULL ,

sale\_date DATE NULL ,

PRIMARY KEY (receipt\_id),

FOREIGN KEY (animal\_id) REFERENCES Animal(animal\_id),

FOREIGN KEY (material\_id) REFERENCES Materials(material\_id)

);

CREATE TABLE Customer

(

receipt\_id INT NOT NULL ,

customer\_name VARCHAR(40) NULL,

PRIMARY KEY (receipt\_id),

FOREIGN KEY (receipt\_id) REFERENCES Sales\_receipt(receipt\_id)

);

CREATE TABLE Diseases

(

disease\_name VARCHAR(20) NOT NULL ,

species\_name VARCHAR(20) NOT NULL ,

symptoms VARCHAR(80) NULL ,

treatment VARCHAR(50) NULL ,

PRIMARY KEY (disease\_name, species\_name),

FOREIGN KEY (species\_name) REFERENCES Species(species\_name)

);

CREATE TABLE Upkeep

(

date\_of\_check DATE NOT NULL ,

enclosure\_id INT NOT NULL ,

staff\_id INT NOT NULL ,

enclosure\_cleaned CHAR(1) NULL ,

animals\_fed CHAR(1) NULL ,

exercise\_if\_required CHAR(1) NULL ,

disease\_name VARCHAR(20) NULL ,

species\_name VARCHAR(20) NULL ,

PRIMARY KEY (date\_of\_check, enclosure\_id, staff\_id),

FOREIGN KEY (enclosure\_id) REFERENCES Enclosure(enclosure\_id),

FOREIGN KEY (disease\_name,species\_name) REFERENCES Diseases(disease\_name,species\_name),

FOREIGN KEY (staff\_id) REFERENCES Staff(staff\_id)

);

**INSERT STATEMENTS**

------- Staff Inserts

INSERT INTO staff (staff\_id, staff\_name) VALUES (1234, 'Gary Healy');

INSERT INTO staff (staff\_id, staff\_name) VALUES (1235, 'Stefan Burke');

INSERT INTO staff (staff\_id, staff\_name) VALUES (1236, 'Francis Marron');

INSERT INTO staff (staff\_id, staff\_name) VALUES (1200, 'Peter Pets');

-- Suppliers Inserts

INSERT INTO suppliers (supplier\_id, supplier\_name, supplier\_address) VALUES (2001, 'Daves Dog Food', 'Drogheda');

INSERT INTO suppliers (supplier\_id, supplier\_name, supplier\_address) VALUES (2002, 'Kevins Kennels', 'Clogher Head');

INSERT INTO suppliers (supplier\_id, supplier\_name, supplier\_address) VALUES (2003, 'Tims Tropical Fish', 'Dublin 8');

INSERT INTO suppliers (supplier\_id, supplier\_name, supplier\_address) VALUES (2004, 'Andys Animals', 'Kildare');

-- Stock Inserts

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3001, 10.00 , 50, 50); --DOG FOOD

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3002, 100.00 , 2, 20); --kennel

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3004, 50.00 , 2, 10); -- dogs

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3005, 50.00 ,2, 1); --cats

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3006, 20.00 , 2, 1); --hamsters

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3007, 20.00 , 2, 1); --guinea pig

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3008, 10.00 , 2, 1); --White Mice

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3009, 10.00 , 2, 1); --cold water fish

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3010, 50.00 , 2, 1); --tropical fish

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3011, 10.00 , 50, 1); --cat food

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3012, 10.00 , 50, 1); --tropical fish food

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3013, 10.00 , 0, 1); --hamster food

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3014, 10.00 , 0, 1); --guinea pig food

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3015, 10.00 , 2, 1); --cold water fish food

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3016, 10.00 , 15, 1); --white mice food

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3017, 50.00 , 2, 1); --guinea pig cage

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3018, 50.00 , 2, 1); --white mice cage

INSERT INTO stock (stock\_id, sale\_price, amount\_in\_stock, reorder\_level) VALUES (3019, 50.00 , 2, 1); --hamster cage

--Stock Order Inserts

INSERT INTO Stock\_order (order\_no, supplier\_id, stock\_id, quantity, cost\_price, staff\_id, order\_date, delivered) VALUES (4000, 2001, 3001, 30, 05.00, 1234, '10-Oct-14','y');

INSERT INTO Stock\_order (order\_no, supplier\_id, stock\_id, quantity, cost\_price, staff\_id, order\_date, delivered) VALUES (4001, 2002, 3002, 2, 60.00, 1235, '12-Oct-14','y');

INSERT INTO Stock\_order (order\_no, supplier\_id, stock\_id, quantity, cost\_price, staff\_id, order\_date, delivered) VALUES (4002, 2003, 3012, 30, 05.00, 1236, '15-Oct-14','y');

INSERT INTO Stock\_order (order\_no, supplier\_id, stock\_id, quantity, cost\_price, staff\_id, order\_date, delivered) VALUES (4003, 2004, 3004, 1, 05.00, 1234, '10-Oct-14','n');

--Species Inserts

INSERT INTO Species (species\_name, feeding\_instructions, stock\_id, enclosure\_size, healthcare, cleaning\_requirements) VALUES ('dog', '3 times daily', 3004, 'large', 'walk daily, yearly shots', 'clean daily');

INSERT INTO Species (species\_name, feeding\_instructions, stock\_id, enclosure\_size, healthcare, cleaning\_requirements) VALUES ('cat', '2 times daily', 3005, 'large', 'yearly shots', 'change litter daily');

INSERT INTO Species (species\_name, feeding\_instructions, stock\_id, enclosure\_size, healthcare, cleaning\_requirements) VALUES ('hamster', '1 time per day', 3006, 'small', 'yearly shots', 'change box lining');

INSERT INTO Species (species\_name, feeding\_instructions, stock\_id, enclosure\_size, healthcare, cleaning\_requirements) VALUES ('guinea pig', '1 time per day', 3007, 'small', 'yearly shots', 'change box lining');

INSERT INTO Species (species\_name, feeding\_instructions, stock\_id, enclosure\_size, healthcare, cleaning\_requirements) VALUES ('white mice', '2 times daily', 3008, 'small', 'yearly shots', 'change box lining');

INSERT INTO Species (species\_name, feeding\_instructions, stock\_id, enclosure\_size, healthcare, cleaning\_requirements) VALUES ('cold water fish', '2 times daily', 3009, 'large', 'medicine', 'clean daily');

INSERT INTO Species (species\_name, feeding\_instructions, stock\_id, enclosure\_size, healthcare, cleaning\_requirements) VALUES ('tropical fish', '2 times daily', 3010, 'large', 'medicine', 'clean daily');

--Enclosure Inserts

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5001, 'individual', 'y'); --dog

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5002, 'individual', 'y'); --dog

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5003, 'individual', 'y'); --cat

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5004, 'individual', 'y'); --cat

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5005, 'communal', 'y'); --hamsters

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5006, 'communal', 'y'); --guinea pigs

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5007, 'communal', 'y'); --white mice

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5008, 'tank', 'y'); --cold water fish

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5009, 'tank', 'y'); --tropical fish

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5010, 'individual', 'n');

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5011, 'individual', 'n');

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5012, 'individual', 'n');

INSERT INTO enclosure (enclosure\_id, enclosure\_type, occupied) VALUES (5013, 'individual', 'n');

--Animal Inserts

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6001, 'White', '2feet', '15kg', 'dog', 5001, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6002, 'brown', '1feet', '7.5kkg', 'dog', 5002, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6003, 'White', '1feet', '7.5kg', 'cat', 5003, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6004, 'White', '2feet', '15kg', 'cat', 5004, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6005, 'White', '10cm', '0.5kg', 'hamster', 5005, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6006, 'White', '10cm', '0.5kg', 'hamster', 5005, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6007, 'brown', '10cm', '0.5kg', 'guinea pig', 5006, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6008, 'brown', '10cm', '0.5kg', 'guinea pig', 5006, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6009, 'White', '10cm', '0.5kg', 'white mice', 5007, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6010, 'White', '10cm', '0.5kg', 'white mice', 5007, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6011, 'grey', '50cm', '0.5kg', 'cold water fish', 5008, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6012, 'grey', '50cm', '0.5kg', 'cold water fish', 5008, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6013, 'gold', '50cm', '0.5kg', 'tropical fish', 5009, null, 'N', 'n');

INSERT INTO animal (animal\_id, colour, height, weight, species\_name, enclosure\_id, treatment, sold, disease) VALUES (6014, 'gold', '50cm', '0.5kg', 'tropical fish', 5009, null, 'N', 'n');

--Veterinary Cert Inserts

INSERT INTO Veterinary\_cert (cert\_number, animal\_id, guarentee\_period, shots\_recieved) VALUES (001, 6001, '12 months', 'all');

INSERT INTO Veterinary\_cert (cert\_number, animal\_id, guarentee\_period, shots\_recieved) VALUES (002, 6002, '12 months','all');

INSERT INTO Veterinary\_cert (cert\_number, animal\_id, guarentee\_period, shots\_recieved) VALUES (003, 6003, '8 months', 'all');

INSERT INTO Veterinary\_cert (cert\_number, animal\_id, guarentee\_period, shots\_recieved) VALUES (004, 6004, '6 months', 'all');

--Materials Insert

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7000, 'dog food', 'dog', 3001); --

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7002, 'kennell', 'dog', 3002); --

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7001, 'cat food', 'cat', 3011); --

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7003, 'fish food', 'tropical fish', 3012); --

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7004, 'rodent food', 'hamster', 3013);

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7005, 'rodent food', 'guinea pig', 3014);

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7006, 'fish food', 'cold water fish', 3015);

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7007, 'rodent food', 'white mice', 3016);

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7008, 'rodent cage', 'guinea pig', 3017);

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7009, 'rodent cage', 'white mice', 3018);

INSERT INTO Materials (material\_id, description, species\_name, stock\_id) VALUES (7010, 'rodent cage', 'hamster', 3019);

--Sales Receipt Inserts

INSERT INTO Sales\_receipt (receipt\_id, animal\_id, material\_id, sale\_date) VALUES (9001, 6014, 7003, '18-oct-14');

INSERT INTO sales\_receipt (receipt\_id, animal\_id, material\_id, sale\_date) VALUES (9002, 6003, 7001, '18-oct-14');

--Customer Inserts

INSERT INTO customer (receipt\_id, customer\_name) VALUES (9001, 'Joe Bloggs');

INSERT INTO customer (receipt\_id, customer\_name) VALUES (9002, 'Annie Jobbs');

--Disease Inserts

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Lyme Disease', 'dog', 'inflamation of the joints', 'antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Mange', 'dog', 'skin lesions', 'antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Chronic Vomitting', 'dog', 'chronic vommiting', 'antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Chronic Vomitting', 'cat', 'chronic vommiting', 'antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Mange', 'cat', 'skin lesions', 'long term medication');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Lyme Disease', 'cat', 'inflamation of the joints', 'antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('ringworm', 'hamster', 'dry scaly skin', 'cream and antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('lice', 'hamster', 'loass of hair', 'cream and antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('ringworm', 'guinea pig', 'dry scaly skin', 'cream and antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('lice', 'guinea pig', 'loss of hair', 'cream and antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('ringworm', 'white mice', 'dry scaly skin', 'cream and antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('lice', 'white mice', 'loss of hair', 'cream and antibiotics');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('body flukes', 'cold water fish', 'Layer of mucus covering gills or body.', 'Tetra parasite guard');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('body flukes', 'tropical fish', 'Layer of mucus covering gills or body.', 'Tetra parasite guard');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Dropsy', 'cold water fish', 'Bloating.', 'Antibiotic injections');

INSERT INTO diseases(disease\_name, species\_name, symptoms, treatment) VALUES ('Dropsy', 'tropical fish', 'Bloating.', 'Antibiotic injections');

--Upkeep Insert

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5001, 1234, 'Y', 'Y', 'Y', null, 'dog');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5002, 1234, 'Y', 'Y', 'Y', null, 'dog');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5003, 1235, 'Y', 'Y', 'Y', null, 'cat');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5004, 1235, 'Y', 'Y', 'Y', null, 'cat');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5005, 1235, 'Y', 'Y', 'Y', null, 'hamster');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5006, 1236, 'Y', 'Y', 'Y', null, 'guinea pig');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5007, 1236, 'Y', 'Y', 'Y', null, 'white mice');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5008, 1236, 'Y', 'Y', 'Y', null, 'cold water fish');

INSERT INTO Upkeep (date\_of\_check, enclosure\_id, staff\_id, enclosure\_cleaned, animals\_fed, exercise\_if\_required, disease\_name, species\_name) VALUES ('12-Oct-2014', 5009, 1234, 'Y', 'Y', 'Y', null, 'tropical fish');

COMMIT;

**GRANT STATEMENTS**

CREATE USER ghealy IDENTIFIED BY 1234;

CREATE USER fmarron IDENTIFIED BY 1234;

CREATE USER sburke IDENTIFIED BY 1234;

GRANT SELECT ON Upkeep TO PUBLIC;

GRANT SELECT ON Diseases TO PUBLIC;

GRANT SELECT ON Customer TO PUBLIC;

GRANT SELECT ON Sales\_receipt TO PUBLIC;

GRANT SELECT ON Materials TO PUBLIC;

GRANT SELECT ON Veterinary\_cert TO PUBLIC;

GRANT SELECT ON Animal TO PUBLIC;

GRANT SELECT ON Enclosure TO PUBLIC;

GRANT SELECT ON Species TO PUBLIC;

GRANT SELECT ON Stock TO PUBLIC;

GRANT SELECT ON Stock\_order TO PUBLIC;

GRANT SELECT ON Suppliers TO PUBLIC;

GRANT SELECT ON Staff TO PUBLIC;

GRANT UPDATE ON Animal TO fmarron;

GRANT INSERT ON Customer TO fmarron;

GRANT UPDATE ON Animal TO fmarron;

GRANT UPDATE ON Materials TO fmarron;

GRANT INSERT ON Sales\_receipt TO fmarron;

GRANT UPDATE ON stock\_order TO ghealy;

GRANT UPDATE ON stock TO ghealy;

GRANT INSERT ON animal TO ghealy;

GRANT UPDATE ON enclosure TO ghealy;

GRANT UPDATE ON Upkeep TO sburke;

GRANT UPDATE ON Animal TO sburke;

\*Peter is able to manage his accounts by querying the database and returning the cost of all stock ordered and deducting it from the total cost of all the sales made.

**Specification 1**

Frankie works in Peter’s Pet shop as a sales clerk. He will be required to make sales on a daily basis.

When a sale occurs he is prompted by the system to enter in a receipt id, animal id, material id, date and customer name. Once an animal has been sold it will need to be marked as sold in the database. This will involve updating the sold field to be true in the animal table where the entered animal id is found. Exceptions will be thrown if invalid data is entered or the animal is listed as sold or diseased.

When an animal is sold, staff are required to sell as much materials associated with the animal as possible. The system needs to decrement the appropriate stock quantity in the stock table of the items that are sold. If no items are sold the staff member will leave the material id prompt as null.

When the transaction is finished the information on the screen will display the receipt id, animal id, animal price, material id, material price, sale date, guarantee period and shots received. This is the receipt that the customer will receive.

The customer’s name is prompted so that a record of who each animal is sold to will be stored in the database.

**Specification 2**

Gary is also a sales clerk at Peter’s Pet shop. Sales Clerks also have the responsibility of taking care of an order when they come into the shop. This responsibility includes housing the animals, recording which tank/cage the animal will be housed in and replenishing stock levels.

As Peter the Owner has already placed the orders, all Gary will have to do when the order comes in is mark that particular stock order as “delivered”.

When an order comes into the shop, Gary will be prompted by the system to enter in the following details:

* Order\_no
* Animal\_id
* Species\_name
* Enclosure\_id

When the order\_no is entered in at the prompt, that particular order will be automatically marked as delivered. The stock table will be replenished by adding the quantity of the stock order to the amount\_in\_stock of the Stock table.

The animal\_id, species\_name and enclosure\_id will be filled out in the Animals table. Then the animal will be housed in the appropriate enclosure. Rodents and fish will be placed in communal tanks/cages while dogs and cats will be placed in individual cages that are not occupied.

**EXCEPTIONS**

* If an individual cage is occupied.
* If the animal is already in the system.
* If the stock order has already been marked as delivered.

**Specification 3**

Stefan is the upkeep manager in Peter’s Pet Shop. Every morning he will be required to perform an upkeep check on each cage and record his findings and the tasks he completes.

The system will prompt him to enter:

* date\_of\_check
* enclosure\_id
* staff\_id
* enclosure\_cleaned
* animals\_fed
* exercise\_if\_required
* disease\_name (if present)
* species\_name (if disease present)

If he finds that a disease is present he will then need to access the Diseases table to find out what treatment should be given to the species affected. He will then also have to mark that the animal is diseased and therefore cannot be sold.

**EXCEPTIONS**

* If the cage has already been checked by another staff member.
* If the enclosure id is not in the system.