

# PET PARADISE SYSTEM



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## NEED OF DBMS

- ✓ In a pet shop, manual maintaining of spread data is much complicated and hard.
  - ✓ Customers want to access data simultaneously through different applications.
  - ✓ Therefore, we want to simplify these work loads by constructing an unique database.
  - ✓ And also, managers, suppliers and sales executives can make reports from the sales and stocks accurate details.
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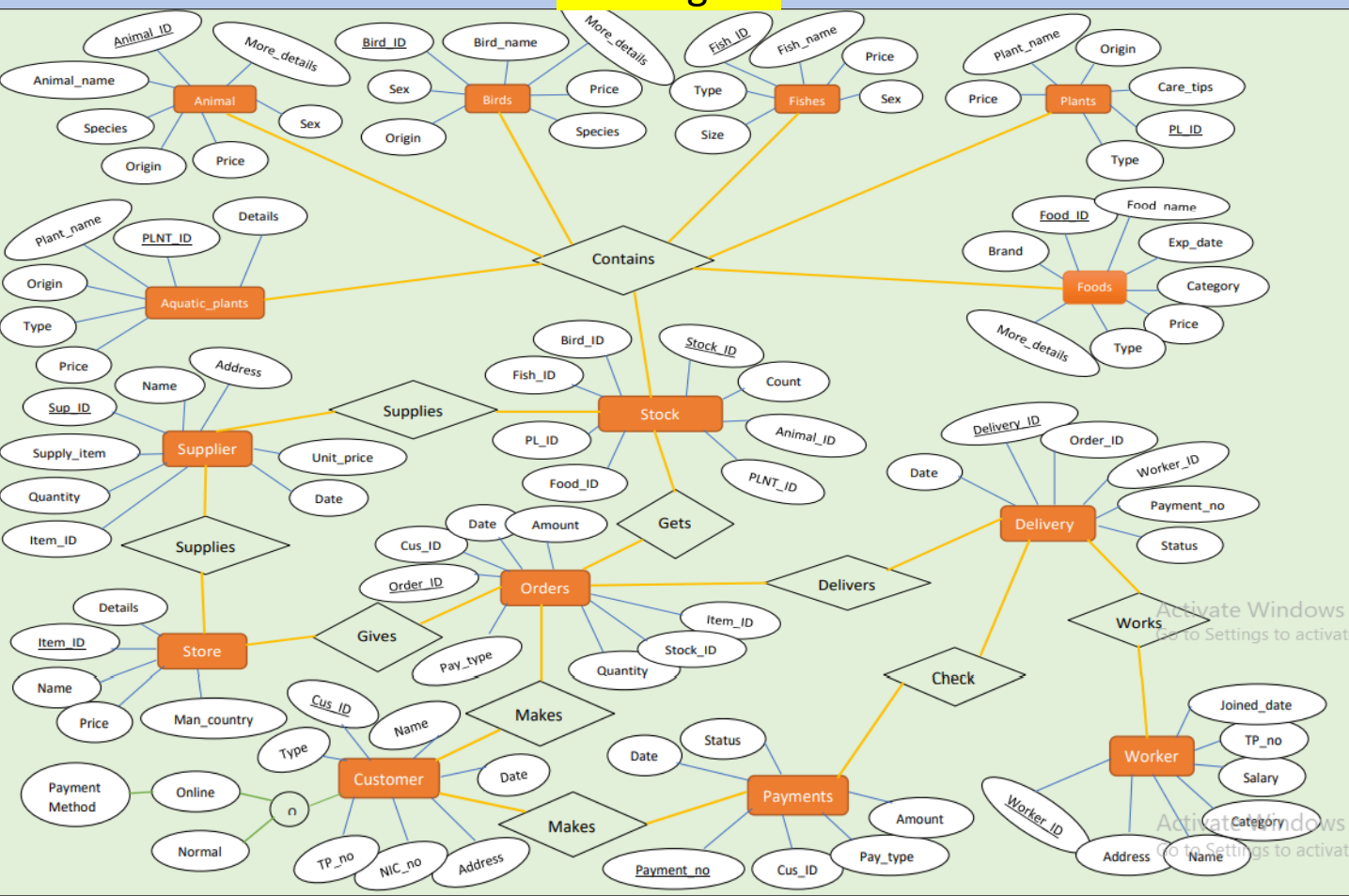
## REQUIREMENT GATHERING

- ✓ When I dealing with our suppliers, customers and stock keepers, I felt that they needed a way to work efficiently.
- ✓ So, I make some polls for feedbacks of each and everyone by some forms.
- ✓ And arranged a board meeting with senior staffs and customers.
- ✓ Observing their every day routine work pressures.

# CASE STUDY

- ✓ In this paradise, there are many blocks such as ANIMALS, BIRDS, FISHES, FOODS, PLANTS, AQUATIC PLANTS, STOCKS and STORE.
- ✓ Available items will be stored in STOCKS. Stock manager and suppliers will see the information and get conclusion about it.
- ✓ Customers will give their information to system and do purchases.
- ✓ Pets and accessories are bought from SUPPLIERS and some CUSTOMERS (There are several suppliers and for the shop). I store each supplier details under Company or Individual name, Supplier ID, Contact Number and Address.
- ✓ There are huge amount of CUSTOMER base in this shop. These customers are register under Name, NIC, Customer ID and Date of purchase of Item or Service.
- ✓ Customer ID will be provide when they make purchases.
- ✓ After completing payments, items will be provide for customers and Stock details will be update.

ER- Diagram



# Relational Schema

## Blocks

<u>BL_no</u>	BL_name	Location	Facilities	Available_items
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## Animals

<u>Animal_ID</u>	Animal_name	Species	Origin	Sex	Price	More_Details
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## Birds

<u>Bird_ID</u>	Bird_name	Price	Origin	Sex	Species	More_Details
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## Fishes

<u>Fish_ID</u>	Fish_name	Size	Sex	Type	Origin	Price
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## Plants

<u>PL_ID</u>	PL_name	Price	Type	Origin	Care_tips
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## Aquatic\_plants

<u>PLNT_ID</u>	PL_name	Origin	Type	Details	Price
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## Foods

<u>Food_ID</u>	Food_name	Exp_date	Price	Category	Type	Brand	More_Details
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## Stock

<u>Stock_ID</u>	Animal_ID	Bird_ID	Fish_ID	PL_ID	PLNT_ID	Food_ID	Count	Sup_ID
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## Store

<u>Item_ID</u>	Item_name	Price	Man_country	Details
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## Customers

<u>Cus_ID</u>	Cus_name	Date	<u>NIC_no</u>	Address	TP_no	Type
---------------	----------	------	---------------	---------	-------	------

## Workers

<u>Worker_ID</u>	Name	Category	Address	Salary	TP_no	Joined_date
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## Supplies

<u>Sup_ID</u>	Name	Address	Supply_Item	Quantity	Unit_price	Supply_date	Item_ID
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## Orders

<u>Order_ID</u>	Cus_ID	Pay_type	Item_ID	Quantity	Date	Amount	Stock_ID
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## Payments

<u>Payment_no</u>	Cus_ID	Pay_Type	Amount	Date	Status
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## Delivery

<u>Delivery_ID</u>	Worker_ID	Order_ID	Payment_no	Date	Status
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```
mysql> CREATE DATABASE PET_SHOP;
Query OK, 1 row affected (0.29 sec)

mysql> USE PET_SHOP;
Database changed
mysql> CREATE TABLE BLOCKS(BL_no varchar(7) primary key,BL_name varchar(15), Location varchar(50), Facilities varchar(50), Available_items varchar(50));
Query OK, 0 rows affected (0.06 sec)

mysql> CREATE TABLE ANIMALS(Animal_ID varchar(7) primary key, Animal_name varchar(20), Price float, Origin varchar(20), Sex char, Species varchar(20),
More_details varchar(50));
Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE BIRDS(Bird_ID varchar(7) primary key, Bird_name varchar(20), Price float, Origin varchar(20), Sex char, Species varchar(20),
More_details varchar(50));
Query OK, 0 rows affected (0.04 sec)

mysql> CREATE TABLE FISHES(Fish_ID varchar(7) primary key, Fish_name varchar(20), Price float, Origin varchar(20), Type varchar(20), Sex char, Size varchar(10));
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE PLANTS(PL_ID varchar(7) primary key, PL_name varchar(20), Origin varchar(20), Type varchar(20), Price float, Care_tips varchar(50));
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE AQ_PLANTS(PLNT_ID VARCHAR(7) primary key,PL_name varchar(20), Origin varchar(20), Type varchar(20), Price float, Details varchar(50));
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE FOODS(Food_ID varchar(7) primary key,Food_name varchar(20), Exp_date date, Price float, Category varchar(20), Type varchar(20),
Brand varchar(20), More_details varchar(50));
Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE STORE(Item_ID varchar(7) primary key, Item_name varchar(20), Price float, Man_country varchar(10), Details varchar(50));
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE CUSTOMER(Cus_ID varchar(10) primary key,Cus_name varchar(30),Date date, NIC_no varchar(12) unique, Address varchar(50),
Tp_no varchar(10), Type varchar(10));
Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE WORKER(Worker_ID varchar(10) primary key, Name varchar(30), Category varchar(30), Address varchar(50), Salary decimal(10,2),
Tp_no varchar(10), Joined_date date);
Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE SUPPLIES(Sup_ID varchar(10) primary key, Name varchar(30), Address varchar(50), Supply_Item varchar(20), Quantity varchar(20),
Unit_price float, Supply_date date, Item_ID varchar(7), foreign key(Item_ID) references STORE(Item_ID));
Query OK, 0 rows affected (0.06 sec)

mysql> CREATE TABLE STOCK(Stock_ID varchar(10) primary key, Animal_ID varchar(7), Bird_ID varchar(7), Fish_ID varchar(7),PL_ID varchar(7), PLNT_ID varchar(7),
Food_ID varchar(7), Count varchar(15), Sup_ID varchar(7), foreign key(Animal_ID) references ANIMALS(Animal_ID),foreign key(Bird_ID) references BIRDS(Bird_ID),
foreign key(Fish_ID) references FISHES(Fish_ID), foreign key(PL_ID) references PLANTS(PL_ID), foreign key(PLNT_ID) references AQ_PLANTS(PLNT_ID),
foreign key(Food_ID) references FOODS(Food_ID), foreign key(Sup_ID) references SUPPLIES(Sup_ID));
Query OK, 0 rows affected (0.38 sec)

mysql> CREATE TABLE PAYMENT(Payment_no varchar(15) primary key, Cus_ID varchar(10), Pay_type varchar(20), Amount float, Date date, Status varchar(20),
foreign key(Cus_ID) references CUSTOMER(Cus_ID));
Query OK, 0 rows affected (0.04 sec)

mysql> CREATE TABLE ORDERS(Order_ID varchar(10) primary key, Cus_ID varchar(10), Pay_type varchar(10), Item_ID varchar(7), Quantity varchar(15),
Date date, Amount float, Stock_ID varchar(10), foreign key(Cus_ID) references CUSTOMER(Cus_ID), foreign key(Item_ID) references STORE(Item_ID),
foreign key(Stock_ID) references STOCK(Stock_ID));
Query OK, 0 rows affected (0.36 sec)

mysql> CREATE TABLE DELIVERY(Delivery_ID varchar(10)primary key, Worker_ID varchar(10), Order_ID varchar(10), Payment_no varchar(15), Date date,
Status varchar(10), foreign key(Worker_ID) references WORKER(Worker_ID), foreign key(Order_ID) references ORDERS(Order_ID),
foreign key(Payment_no) references PAYMENT(Payment_no));
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> DESC BLOCKS;
```

Field	Type	Null	Key	Default	Extra
BL_no	varchar(7)	NO	PRI	NULL	
BL_name	varchar(15)	YES		NULL	
Location	varchar(50)	YES		NULL	
Facilities	varchar(50)	YES		NULL	
Available_items	varchar(50)	YES		NULL	

```
5 rows in set (0.32 sec)
```

```
mysql> DESC ANIMALS;
```

Field	Type	Null	Key	Default	Extra
Animal_ID	varchar(7)	NO	PRI	NULL	
Animal_name	varchar(20)	YES		NULL	
Price	float	YES		NULL	
Origin	varchar(20)	YES		NULL	
Sex	char(1)	YES		NULL	
Species	varchar(20)	YES		NULL	
More_details	varchar(50)	YES		NULL	

```
7 rows in set (0.33 sec)
```

```
mysql> DESC BIRDS;
```

Field	Type	Null	Key	Default	Extra
Bird_ID	varchar(7)	NO	PRI	NULL	
Bird_name	varchar(20)	YES		NULL	
Price	float	YES		NULL	
Origin	varchar(20)	YES		NULL	
Sex	char(1)	YES		NULL	
Species	varchar(20)	YES		NULL	
More_details	varchar(50)	YES		NULL	

7 rows in set (0.00 sec)

```
mysql> DESC FISHES;
```

Field	Type	Null	Key	Default	Extra
Fish_ID	varchar(7)	NO	PRI	NULL	
Fish_name	varchar(20)	YES		NULL	
Price	float	YES		NULL	
Origin	varchar(20)	YES		NULL	
Type	varchar(20)	YES		NULL	
Sex	char(1)	YES		NULL	
Size	varchar(10)	YES		NULL	

7 rows in set (0.00 sec)

```
mysql> DESC PLANTS;
```

Field	Type	Null	Key	Default	Extra
PL_ID	varchar(7)	NO	PRI	NULL	
PL_name	varchar(20)	YES		NULL	
Origin	varchar(20)	YES		NULL	
Type	varchar(20)	YES		NULL	
Price	float	YES		NULL	
Care_tips	varchar(50)	YES		NULL	

6 rows in set (0.00 sec)

```
mysql> DESC AQ_PLANTS;
```

Field	Type	Null	Key	Default	Extra
PLNT_ID	varchar(7)	NO	PRI	NULL	
PL_name	varchar(20)	YES		NULL	
Origin	varchar(20)	YES		NULL	
Type	varchar(20)	YES		NULL	
Price	float	YES		NULL	
Details	varchar(50)	YES		NULL	

6 rows in set (0.00 sec)



```
mysql> DESC FOODS;
```

Field	Type	Null	Key	Default	Extra
Food_ID	varchar(7)	NO	PRI	NULL	
Food_name	varchar(20)	YES		NULL	
Exp_date	date	YES		NULL	
Price	float	YES		NULL	
Category	varchar(20)	YES		NULL	
Type	varchar(20)	YES		NULL	
Brand	varchar(20)	YES		NULL	
More_details	varchar(50)	YES		NULL	

8 rows in set (0.00 sec)

```
mysql> DESC STOCK;
```

Field	Type	Null	Key	Default	Extra
Stock_ID	varchar(10)	NO	PRI	NULL	
Animal_ID	varchar(7)	YES	MUL	NULL	
Bird_ID	varchar(7)	YES	MUL	NULL	
Fish_ID	varchar(7)	YES	MUL	NULL	
PL_ID	varchar(7)	YES	MUL	NULL	
PLNT_ID	varchar(7)	YES	MUL	NULL	
Food_ID	varchar(7)	YES	MUL	NULL	
Count	varchar(15)	YES		NULL	
Sup_ID	varchar(7)	YES	MUL	NULL	

9 rows in set (0.00 sec)

```
mysql> DESC CUSTOMER;
```

Field	Type	Null	Key	Default	Extra
Cus_ID	varchar(10)	NO	PRI	NULL	
Cus_name	varchar(30)	YES		NULL	
Date	date	YES		NULL	
NIC_no	varchar(12)	YES	UNI	NULL	
Address	varchar(50)	YES		NULL	
Tp_no	varchar(10)	YES		NULL	
Type	varchar(10)	YES		NULL	

7 rows in set (0.00 sec)

```
mysql> DESC WORKER;
```

Field	Type	Null	Key	Default	Extra
Worker_ID	varchar(10)	NO	PRI	NULL	
Name	varchar(30)	YES		NULL	
Category	varchar(30)	YES		NULL	
Address	varchar(50)	YES		NULL	
Salary	decimal(10,2)	YES		NULL	
Tp_no	varchar(10)	YES		NULL	
Joined_date	date	YES		NULL	

7 rows in set (0.00 sec)

```
mysql> DESC STORE;
```

Field	Type	Null	Key	Default	Extra
Item_ID	varchar(7)	NO	PRI	NULL	
Item_name	varchar(20)	YES		NULL	
Price	float	YES		NULL	
Man_country	varchar(10)	YES		NULL	
Details	varchar(50)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> DESC SUPPLIES;
```

Field	Type	Null	Key	Default	Extra
Sup_ID	varchar(10)	NO	PRI	NULL	
Name	varchar(30)	YES		NULL	
Address	varchar(50)	YES		NULL	
Supply_Item	varchar(20)	YES		NULL	
Quantity	varchar(20)	YES		NULL	
Unit_price	float	YES		NULL	
Supply_date	date	YES		NULL	
Item_ID	varchar(7)	YES	MUL	NULL	

8 rows in set (0.00 sec)

```
mysql> DESC ORDERS;
```

Field	Type	Null	Key	Default	Extra
Order_ID	varchar(10)	NO	PRI	NULL	
Cus_ID	varchar(10)	YES	MUL	NULL	
Pay_type	varchar(10)	YES		NULL	
Item_ID	varchar(7)	YES	MUL	NULL	
Quantity	varchar(15)	YES		NULL	
Date	date	YES		NULL	
Amount	float	YES		NULL	
Stock_ID	varchar(10)	YES	MUL	NULL	

8 rows in set (0.00 sec)

```
mysql> DESC PAYMENT;
```

Field	Type	Null	Key	Default	Extra
Payment_no	varchar(15)	NO	PRI	NULL	
Cus_ID	varchar(10)	YES	MUL	NULL	
Pay_type	varchar(20)	YES		NULL	
Amount	float	YES		NULL	
Date	date	YES		NULL	
Status	varchar(20)	YES		NULL	

6 rows in set (0.00 sec)



mysql> DESC DELIVERY;

Field	Type	Null	Key	Default	Extra
Delivery_ID	varchar(10)	NO	PRI	NULL	
Worker_ID	varchar(10)	YES	MUL	NULL	
Order_ID	varchar(10)	YES	MUL	NULL	
Payment_no	varchar(15)	YES	MUL	NULL	
Date	date	YES		NULL	
Status	varchar(10)	YES		NULL	

6 rows in set (0.00 sec)

mysql> INSERT INTO BLOCKS (BL\_no,BL\_name,Location,Facilities,Available\_items) VALUES ('BL0001','Animals','6th mile post, Kaddudai, Manipay','Animals caring, Feeding Consultation, Bathing','Cages, Foods, Medicines, Shampoo, Fashion toys');  
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO BLOCKS (BL\_no,BL\_name,Location,Facilities,Available\_items) VALUES ('BL0002','Birds','Alangulai road, Sandilipay','Birds caring, Feeding Consultation, Breeding','Cages, Foods, Medicines, Fashion toys'),('BL0003','Fishes','Garage lane, Sandilipay west, Chankanai','Vacation care, Tank cleaning, Fish care','Foods, Tanks, Nets, Colour stones'),('BL0004','Plants','Bigbazaar road, KKS Jaffna','Gardening consultation,Watering and Fertilizing','Seeds, Vases, Fertilizers'),('BL0005','Aqua Plants','Kovil lane, Urumbirai west, Urumbirai','Planting consultation, Fertilizing, Designing','Aquatic plants, Fertilizers, Composts');  
Query OK, 4 rows affected (0.00 sec)  
Records: 4 Duplicates: 0 Warnings: 0

mysql> INSERT INTO BLOCKS (BL\_no,BL\_name,Location,Facilities,Available\_items) VALUES ('BL0006','Store','Church lane, Manipay west, Manipay','Foods keeping, Selling accessories, Making cages','Cages, Foods, Medicines, Fashion accessories');  
Query OK, 1 row affected (0.00 sec)

mysql> SELECT \* FROM BLOCKS;

BL_no	BL_name	Location	Facilities	Available_items
BL0001	Animals	6th mile post, Kaddudai, Manipay	Animals caring, Feeding Consultation, Bathing	Cages, Foods, Medicines, Shampoo, Fashion toys
BL0002	Birds	Alangulai road, Sandilipay	Birds caring, Feeding Consultation, Breeding	Cages, Foods, Medicines, Fashion toys
BL0003	Fishes	Garage lane, Sandilipay west, Chankanai	Vacation care, Tank cleaning, Fish care	Foods, Tanks, Nets, Colour stones
BL0004	Plants	Bigbazaar road, KKS Jaffna	Gardening consultation,Watering and Fertilizing	Seeds, Vases, Fertilizers
BL0005	Aqua Plants	Kovil lane, Urumbirai west, Urumbirai	Planting consultation, Fertilizing, Designing	Aquatic plants, Fertilizers, Composts
BL0006	Store	Church lane, Manipay west, Manipay	Foods keeping, Selling accessories, Making cages	Cages, Foods, Medicines, Fashion accessories

6 rows in set (0.00 sec)

mysql> INSERT INTO ANIMALS (Animal\_ID, Animal\_name, Price, Origin, Sex, Species, More\_Details) VALUES ('ANI001','German Shepherd',30000,'Germany','M','Black,Panda,Sable','Colour black, Age 4 month');  
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO ANIMALS (Animal\_ID, Animal\_name, Price, Origin, Sex, Species, More\_Details) VALUES ('ANI002','German Shepherd',25000,'Germany','F','Panda,Sable','Colour white, Age 7 month');  
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO ANIMALS (Animal\_ID, Animal\_name, Price, Origin, Sex, Species, More\_Details) VALUES ('ANI003','Lion Shepherd',45000,'Germany','M','Belgian malinois','Colour white, Age 6 month');  
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO ANIMALS (Animal\_ID, Animal\_name, Price, Origin, Sex, Species, More\_Details) VALUES ('ANI004','Boxer',40000,'Germany','M','Fawn Boxer','Colour white, Age 6 month');  
Query OK, 1 row affected (0.00 sec)

Thank you