

April 2021

# SQL PROJECT REPORT

Outcome 1



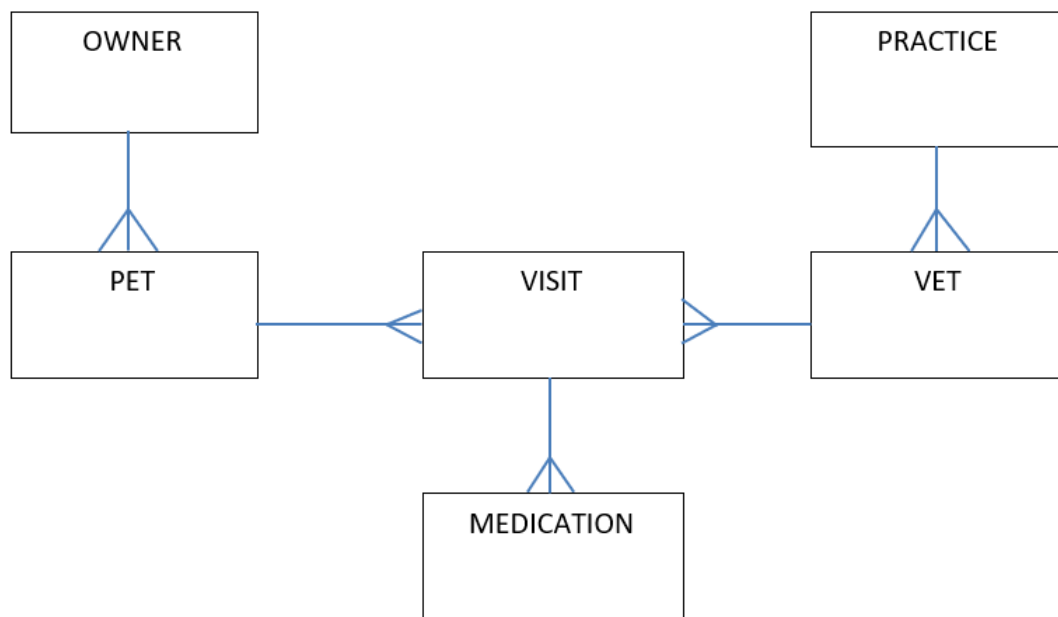
Produced by: Maria Ferrara

# Scenario

The Healthy Pets Veterinary Surgery is currently spread over two practices. The head office at 27, The Hill, Glasgow and a smaller, temporary practice at Unit 1, Houston Estate, Glasgow.

Currently there are four vets, two at each site. However, the plan for the future is to significantly expand the head office and close the temporary practice. All four vets will then work from the head office. Also, two new members of staff will be recruited.

A data model representing the current situation is shown below.



# Task 1

Execute the SQL SCRIPT file VET FOUR TABLES to create and populate the basic tables (OWNER, PET, PRACTICE and VET)

Test functionality once you have created them by displaying the records in all the tables using

·SELECT \* from PRACTICE  
SELECT \* FROM VET  
·SELECT \* FROM PET  
·SELECT \* FROM OWNER

## SQL result

Host: localhost  
Database: HNCSoftSA36  
Generation Time: Mar 06, 2021 at 01:02 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM PRACTICE LIMIT 0, 30 ;  
Rows: 2

practice id	practice name	practice address
P1	Practice Head Office	27, The Hill, Glasgow
P2	Practice Unit 1	Unit 1, Houston Estate, Glasgow

## SQL result

Host: localhost  
Database: HNCSoftSA36  
Generation Time: Mar 06, 2021 at 01:05 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM VET LIMIT 0, 30 ;  
Rows: 4

vet id	surname	forename	title	ext number	position	salary	practice id
V01	Wilson	Sarah	Dr	6122	Senior Partner	45000.00	P1
V02	McDonald	Bryan	Dr	6154	Senior Partner	35000.00	P1
V03	Patel	Jane	Dr	6165	Junior Partner	29000.00	P2
V04	McCafferty	Trevor	Mr	6166	Junior Partner	25600.00	P2

## SQL result

Host: localhost  
Database: HNCSoftSA36  
Generation Time: Mar 06, 2021 at 01:00 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM PET LIMIT 0, 30 ;  
Rows: 10

pet id	name	type	breed	gender	born	owner id	notes
P0001	Tiddles	cat	persian	F	1998	2	Has a bad temper and scratches you
P0002	Lassie	dog	retriever	M	2001	5	Allergic to penicillin
P0005	Jaws	fish	goldfish	X	NULL	2	NULL
P0024	Spot	dog	mongrel	M	1996	4	Very docile
P0078	Trigger	horse	shire	F	1988	1	Allergic to penicillin
P0089	Lassie	dog	sheepdog	M	2001	3	Poor heart
P0097	Jaws 2	fish	angel	X	NULL	2	NULL
P0132	Ginger	cat	siamese	F	2000	4	Bad tempered
P0145	Shep	dog	sheepdog	M	1993	5	Eats everything
P0342	Slippy	snake	adder	X	2002	1	NULL

## SQL result

Host: localhost  
Database: HNCSoftSA36  
Generation Time: Mar 06, 2021 at 12:56 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* from OWNER LIMIT 0, 30 ;  
Rows: 5

owner id	surname	forename	title	tel number	address
1	Jackson	Janet	Miss	0141-223321	1, Main Street, Glasgow
2	Singh	Raj	Mr	0141-326535	22, The Hill, Glasgow
3	Campbell	Bernard	Mr	0143-46532	21, High Street, Glasgow
4	Hussain	Pauline	Mrs	0142-68543	51, Elm Grove, Glasgow
5	Otten	Gerard	Dr	0141-557536	77, The Walk, Glasgow

# Task 2

Create the VISIT and MEDICATION tables, including their primary key definitions to match the data below

Visit table (NO PRIMARY KEY)

Pet Id	Vet Id	Visit Date	Basic cost	Symptom	Treatment
P0001	V01	21/04/2004	23.99	Bitten left ear	Injection
P0002	V02	21/04/2004	14.75	Vomiting	Tablets and injection
P0001	V01	27/04/2004	20.00	Bitten right ear	Injection
P0078	V03	28/04/2004	15.00	Limping	Ointment
P0342	V02	03/05/2004	12.50	Not eating	Tablets

MEDICATION TABLE

**MEDICATION table** (note seq no is like a prescription number, if a pet has more than one medication per visit)

Pet Id	Vet Id	Visit Date	Seq Number	Medicine	Cost
P0001	V01	21/04/2004	1	Antibiotic injection	12.00
P0002	V02	21/04/2004	1	Stomach tablets	15.00
P0002	V02	21/04/2004	2	Anti sickness injection	23.50
P0001	V01	27/04/2004	1	Antibiotic injection	16.25
P0078	V03	28/04/2004	1	Soothing cream	7.99
P0342	V02	03/05/2004	1	Stomach tablets	12.50

## CREATE TABLE VISIT

```
( `Pet Id` CHAR(5) NOT NULL,  
  `Vet Id` CHAR(3) NOT NULL,  
  `Visit Date` DATE NOT NULL,  
  `Basic cost` DEC(7,2) NOT NULL,  
  `Symptom` VARCHAR(50) NOT NULL,  
  `Treatment` VARCHAR(20) NOT NULL);
```

## CREATE TABLE MEDICATION

```
( `Pet Id` CHAR(5) NOT NULL,  
  `Vet Id` CHAR(3) NOT NULL,  
  `Visit Date` DATE NOT NULL,  
  `Seq Number` INTEGER NOT NULL,  
  `Medicine` VARCHAR(50) NOT NULL,  
  `Cost` DEC(7,2) NOT NULL);
```

## SQL result

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 01:22 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* from VISIT LIMIT 0, 30 ;  
Rows: 5

Pet Id	Vet Id	Visit Date	Basic cost	Symptom	Treatment
P0001	V01	2004-04-21	23.9	Bitten left ear	Injection
P0002	V02	2004-04-27	14.7	Vomiting	Tablets and injection
P0001	V01	2004-04-27	20.0	Bitten right ea	Injection
P0078	V03	2004-04-28	15.0	Limping	Ointment
P0342	V02	2004-04-28	12.5	Not eating	Tablets

## SQL result

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 01:28 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* from MEDICATION ORDER BY `MEDICATION`.`Medicine` ASC LIMIT 0, 30 ;  
Rows: 6

Pet Id	Vet Id	Visit Date	Seq Number	Medicine	Cost
P0002	V02	2004-04-21	2	Anti sickness i	23.50
P0001	V01	2004-04-21	1	Antibiotic inje	12.00
P0001	V01	2004-04-27	1	Antibiotic inje	16.25
P0078	V03	2004-04-28	1	Soothing cream	7.99
P0002	V02	2004-04-21	1	Stomach tablets	15.00
P0342	V02	2004-04-28	1	Stomach tablets	12.50

# Task 3

Execute the SQL SCRIPT file VET DATA to populate the VISIT and MEDICATION tables.

SELECT \* from VISIT

## SQL result

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 01:33 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM 'VISIT' LIMIT 0, 30 ;  
Rows: 15

Pet Id	Vet Id	Visit Date	Basic cost	Symptom	Treatment
P0001	V01	2004-04-21	23.9	Bitten left ear	Injection
P0002	V02	2004-04-27	14.7	Vomiting	Tablets and injection
P0001	V01	2004-04-27	20.0	Bitten right ea	Injection
P0078	V03	2004-04-28	15.0	Limping	Ointment
P0342	V02	2004-04-28	12.5	Not eating	Tablets
P0089	V04	2004-05-03	17.5	Limping	Ointment
P0132	V01	2004-05-03	15.0	Coughing	Tablets and injection
P0001	V04	2004-05-07	21.0	Cut on nose and	Ointment
P0097	V03	2004-05-08	12.5	Flaky skin	Ointment
P0024	V04	2004-05-12	32.5	Broken leg	Injection and cast
P0132	V03	2004-05-13	23.9	Bitten left ear	Injection
P0089	V04	2004-05-13	23.9	Bitten right ea	Injection
P0145	V02	2004-05-16	14.7	Vomiting	Tablets and injection
P0001	V04	2004-05-17	17.5	Scratched front	Ointment and injection
P0024	V04	2004-05-19	23.5	Broken leg	Remove cast

SELECT \* from MEDICATION

## SQL result

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 01:35 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM 'MEDICATION' LIMIT 0, 30 ;  
Rows: 26

Pet Id	Vet Id	Visit Date	Seq Number	Medicine	Cost
P0001	V01	2004-04-21	1	Antibiotic inje	12.00
P0002	V02	2004-04-21	1	Stomach tablets	15.00
P0002	V02	2004-04-21	2	Anti sickness i	23.50
P0001	V01	2004-04-27	1	Antibiotic inje	16.25
P0078	V03	2004-04-28	1	Soothing cream	7.99
P0342	V02	2004-04-28	1	Stomach tablets	12.50
P0089	V04	2004-05-03	1	Soothing cream	7.99
P0089	V04	2004-05-03	2	Bandage	2.50
P0132	V01	2004-05-03	1	Sooth throat ta	14.50
P0132	V01	2004-05-03	2	Antibiotic inje	12.00
P0001	V04	2004-05-07	1	Antibiotic crea	13.25
P0001	V04	2004-05-07	2	Bandage	3.50
P0097	V03	2004-05-08	1	Soothing cream	7.99
P0024	V04	2004-05-12	1	Antibiotic inje	17.50
P0024	V04	2004-05-12	2	Plaster of pari	15.80
P0024	V04	2004-05-12	3	Support Bandage	12.75
P0132	V03	2004-05-13	1	Antibiotic inje	15.00
P0132	V03	2004-05-13	2	Antiseptic crea	13.25
P0089	V04	2004-05-13	1	Antibiotic inje	15.00
P0089	V04	2004-05-13	2	Antiseptic crea	7.50
P0145	V02	2004-05-16	1	Stomach tablets	12.50
P0145	V02	2004-05-16	2	Antibiotic inje	15.00
P0001	V04	2004-05-17	1	Bandage	8.60
P0001	V04	2004-05-17	2	Antibiotic crea	9.25
P0001	V04	2004-05-17	3	Antibiotic inje	15.00
P0024	V04	2004-05-19	1	Antiseptic crea	17.50

# Task 4

Shep the dog has a sore foot. On the 22 June 2004 he visited the vet and was attended to by the vet Dr Sarah Wilson. He was given an injection and some ointment. The basic cost for this treatment was £15.00. Add a row to the VISIT table to store details of this visit

## INSERT INTO VISIT

**VALUES ('P0145','V01','22/06/2004','15.0','Sore foot', 'Injections Ointment');**

## SQL result

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 01:55 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM 'VISIT' WHERE 'Pet Id' = 'P0145' LIMIT 0, 30 ;  
Rows: 2

Pet Id	Vet Id	Visit Date	Basic cost	Symptom	Treatment
P0145	V02	2004-05-16	14.7	Vomiting	Tablets and injection
P0145	V01	2004-06-22	15.0	Sore foot	Injection,Ointment

# Task 5

The injection given was an antibiotic costing £17.89 and the ointment given was a pot of 'Soothing Cream' costing £12.50. Add two rows to the MEDICATION table to store details of these medications.

## INSERT INTO MEDICATION

**VALUE('P0145','V01','2004/06/22','1','Antibiotic injection','17.89')**

## INSERT INTO MEDICATION

**VALUE ('P0145','V01','2004/06/22','1','Soothing cream','12.50');**

## SQL result

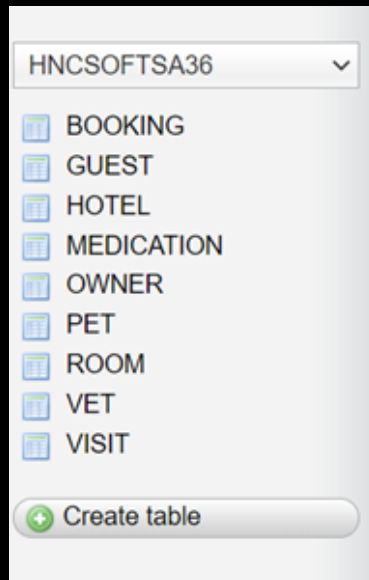
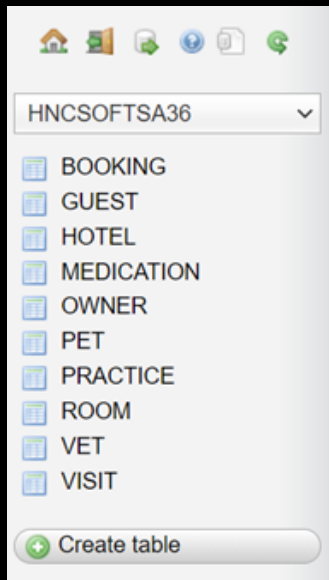
Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 02:00 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM 'MEDICATION' WHERE 'Pet Id' = 'P0145' LIMIT 0, 30 ;  
Rows: 4

Pet Id	Vet Id	Visit Date	Seq Number	Medicine	Cost
P0145	V02	2004-05-16	1	Stomach tablets	12.50
P0145	V02	2004-05-16	2	Antibiotic inje	15.00
P0145	V01	2004-06-22	1	Antibiotic inje	17.89
P0145	V01	2004-06-22	1	Soothing Cream	12.50

# TASK 6

Remove the PRACTICE table.

PRACTICE -> OPERATIONS -> DROP  
BEFORE AFTER



# TASK 7

Remove the PRACTICE\_ID column from the VET table.

ALTER TABLE VET  
DROP COLUMN practice\_id

## SQL result

Host: localhost

Database: HNCISOFTSA36

Generation Time: Mar 06, 2021 at 02:12 PM

Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1

SQL query: SELECT \* FROM 'VET' LIMIT 0, 30 ;

Rows: 4

vet id	surname	forename	title	ext number	position	salary
V01	Wilson	Sarah	Dr	6122	Senior Partner	45000.00
V02	McDonald	Bryan	Dr	6154	Senior Partner	35000.00
V03	Patel	Jane	Dr	6165	Junior Partner	29000.00
V04	McCafferty	Trevor	Mr	6166	Junior Partner	25600.00



# Task 8

*Add a column to the VET table to hold their mobile phone number. Use an appropriate name, type and length for this column*

**ALTER TABLE VET**

**ADD phone\_numbers VARCHAR(15) NULL;**

**BEFORE**

## SQL result

Host: localhost

Database: HNCISOFTSA36

Generation Time: Mar 06, 2021 at 02:13 PM

Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1

SQL query: SELECT \* FROM 'VET' LIMIT 0, 30 ;

Rows: 4

vet id	surname	forename	title	ext number	position	salary
V01	Wilson	Sarah	Dr	6122	Senior Partner	45000.00
V02	McDonald	Bryan	Dr	6154	Senior Partner	35000.00
V03	Patel	Jane	Dr	6165	Junior Partner	29000.00
V04	McCafferty	Trevor	Mr	6166	Junior Partner	25600.00

**AFTER**

## SQL result

Host: localhost

Database: HNCISOFTSA36

Generation Time: Mar 06, 2021 at 02:23 PM

Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1

SQL query: SELECT \* FROM 'VET' LIMIT 0, 30 ;

Rows: 4

vet id	surname	forename	title	ext number	position	salary	phone numbers
V01	Wilson	Sarah	Dr	6122	Senior Partner	45000.00	NULL
V02	McDonald	Bryan	Dr	6154	Senior Partner	35000.00	NULL
V03	Patel	Jane	Dr	6165	Junior Partner	29000.00	NULL
V04	McCafferty	Trevor	Mr	6166	Junior Partner	25600.00	NULL



# TASK 9

Add details of the two new junior partners. One of these new vets is you; choose appropriate data for this and the other row. As yet, you have not been given a mobile phone.

```
INSERT INTO `VET` VALUES ('V05', 'Ferrara', 'Maria', 'Dr', '6123', 'Junior Partner', '45000', NULL);
```

```
INSERT INTO `VET` VALUES ('V06', 'Smith', 'John', 'Dr', '6155', 'Junior Partner', '35000', NULL);
```

## SQL result

Host: localhost

Database: HNCSOFTSA36

Generation Time: Mar 10, 2021 at 01:47 PM

Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1

SQL query: SELECT \* FROM `VET` LIMIT 0, 30 ;

Rows: 6

vet id	surname	forename	title	ext number	position	salary	phone numbers
V01	Wilson	Sarah	Dr	6122	Senior Partner	45000.00	NULL
V02	McDonald	Bryan	Dr	6154	Senior Partner	35000.00	NULL
V03	Patel	Jane	Dr	6165	Junior Partner	29000.00	NULL
V04	McCafferty	Trevor	Mr	6166	Junior Partner	25600.00	NULL
V05	Ferrara	Maria	Dr	6123	Junior Partner	45000.00	NULL
V06	Smith	John	Dr	6155	Junior Partner	35000.00	NULL

# TASK 10

Produce a listing of all the rows and columns in the VET, VISIT and MEDICATION tables

## SELECT \* from MEDICATION

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 02:41 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* FROM 'MEDICATION' LIMIT 0, 30 ;  
Rows: 28

Pet Id	Vet Id	Visit Date	Seq Number	Medicine	Cost
P0001	V01	2004-04-21	1	Antibiotic inje	12.00
P0002	V02	2004-04-21	1	Stomach tablets	15.00
P0002	V02	2004-04-21	2	Anti sickness i	23.50
P0001	V01	2004-04-27	1	Antibiotic inje	16.25
P0078	V03	2004-04-28	1	Soothing cream	7.99
P0342	V02	2004-04-28	1	Stomach tablets	12.50
P0089	V04	2004-05-03	1	Soothing cream	7.99
P0089	V04	2004-05-03	2	Bandage	2.50
P0132	V01	2004-05-03	1	Sooth throat ta	14.50
P0132	V01	2004-05-03	2	Antibiotic inje	12.00
P0001	V04	2004-05-07	1	Antibiotic crea	13.25
P0001	V04	2004-05-07	2	Bandage	3.50
P0097	V03	2004-05-08	1	Soothing cream	7.99
P0024	V04	2004-05-12	1	Antibiotic inje	17.50
P0024	V04	2004-05-12	2	Plaster of pari	15.80
P0024	V04	2004-05-12	3	Support Bandage	12.75
P0132	V03	2004-05-13	1	Antibiotic inje	15.00
P0132	V03	2004-05-13	2	Antiseptic crea	13.25
P0089	V04	2004-05-13	1	Antibiotic inje	15.00
P0089	V04	2004-05-13	2	Antiseptic crea	7.50
P0145	V02	2004-05-16	1	Stomach tablets	12.50
P0145	V02	2004-05-16	2	Antibiotic inje	15.00
P0001	V04	2004-05-17	1	Bandage	8.60
P0001	V04	2004-05-17	2	Antibiotic crea	9.25
P0001	V04	2004-05-17	3	Antibiotic inje	15.00
P0024	V04	2004-05-19	1	Antiseptic crea	17.50
P0145	V01	2004-06-22	1	Antibiotic inje	17.89
P0145	V01	2004-06-22	1	Soothing Cream	12.50

## SELECT \* from VET

### SQL result

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 10, 2021 at 01:50 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* from VET LIMIT 0, 30 ;  
Rows: 6

vet id	surname	forename	title	ext number	position	salary	phone numbers
V01	Wilson	Sarah	Dr	6122	Senior Partner	45000.00	NULL
V02	McDonald	Bryan	Dr	6154	Senior Partner	35000.00	NULL
V03	Patel	Jane	Dr	6165	Junior Partner	29000.00	NULL
V04	McCafferty	Trevor	Mr	6166	Junior Partner	25600.00	NULL
V05	Ferrara	Maria	Dr	6123	Junior Partner	45000.00	NULL
V06	Smith	John	Dr	6155	Junior Partner	35000.00	NULL

## SELECT \* from VISIT

### SQL result

Host: localhost  
Database: HNCISOFTSA36  
Generation Time: Mar 06, 2021 at 02:31 PM  
Generated by: phpMyAdmin 3.4.10.1deb1 / MySQL 5.5.29-0ubuntu0.12.04.1  
SQL query: SELECT \* from VISIT LIMIT 0, 30 ;  
Rows: 16

Pet Id	Vet Id	Visit Date	Basic cost	Symptom	Treatment
P0001	V01	2004-04-21	23.9	Bitten left ear	Injection
P0002	V02	2004-04-27	14.7	Vomiting	Tablets and injection
P0001	V01	2004-04-27	20.0	Bitten right ea	Injection
P0078	V03	2004-04-28	15.0	Limping	Ointment
P0342	V02	2004-04-28	12.5	Not eating	Tablets
P0089	V04	2004-05-03	17.5	Limping	Ointment
P0132	V01	2004-05-03	15.0	Coughing	Tablets and injection
P0001	V04	2004-05-07	21.0	Cut on nose and	Ointment
P0097	V03	2004-05-08	12.5	Flaky skin	Ointment
P0024	V04	2004-05-12	32.5	Broken leg	Injection and cast
P0132	V03	2004-05-13	23.9	Bitten left ear	Injection
P0089	V04	2004-05-13	23.9	Bitten right ea	Injection
P0145	V02	2004-05-16	14.7	Vomiting	Tablets and injection
P0001	V04	2004-05-17	17.5	Scratched front	Ointment and injection
P0024	V04	2004-05-19	23.5	Broken leg	Remove cast
P0145	V01	2004-06-22	15.0	Sore foot	Injection,Ointment