

DSC 450  
01/24/21  
Daniel O'Brien  
Part 2a

Code:

```
createtbl = ""  
CREATE TABLE Animal  
(  
    AID    NUMBER(3, 0),  
    AName  VARCHAR2(30) NOT NULL,  
    ACategory VARCHAR2(18),  
  
    TimeToFeed NUMBER(4,2),  
  
    CONSTRAINT Animal_PK  
        PRIMARY KEY(AID)  
);  
""
```

```
inserts = ["INSERT INTO Animal VALUES(1, 'Galapagos Penguin', 'exotic', 0.5);", "INSERT INTO  
Animal VALUES(2, 'Emperor Penguin', 'rare', 0.75);", "INSERT INTO Animal VALUES(3, 'Sri Lankan  
sloth bear', 'exotic', 2.5);", "INSERT INTO Animal VALUES(4, 'Grizzly bear', 'common', 3.0);",  
"INSERT INTO Animal VALUES(5, 'Giant Panda bear', 'exotic', 1.5);", "INSERT INTO Animal  
VALUES(6, 'Florida black bear', 'rare', 1.75);", "INSERT INTO Animal VALUES(7, 'Siberian tiger',  
'rare', 3.25);", "INSERT INTO Animal VALUES(8, 'Bengal tiger', 'common', 2.75);", "INSERT INTO  
Animal VALUES(9, 'South China tiger', 'exotic', 2.5);", "INSERT INTO Animal VALUES(10, 'Alpaca',  
'common', 0.25);", "INSERT INTO Animal VALUES(11, 'Llama', NULL, 3.5);"]
```

```
import sqlite3
```

```
conn = sqlite3.connect('dsc450_2.db') # open the connection  
cursor = conn.cursor()
```

```
cursor.execute(createtbl) # create the Animal table  
for ins in inserts:      # insert the rows  
    cursor.execute(ins)
```

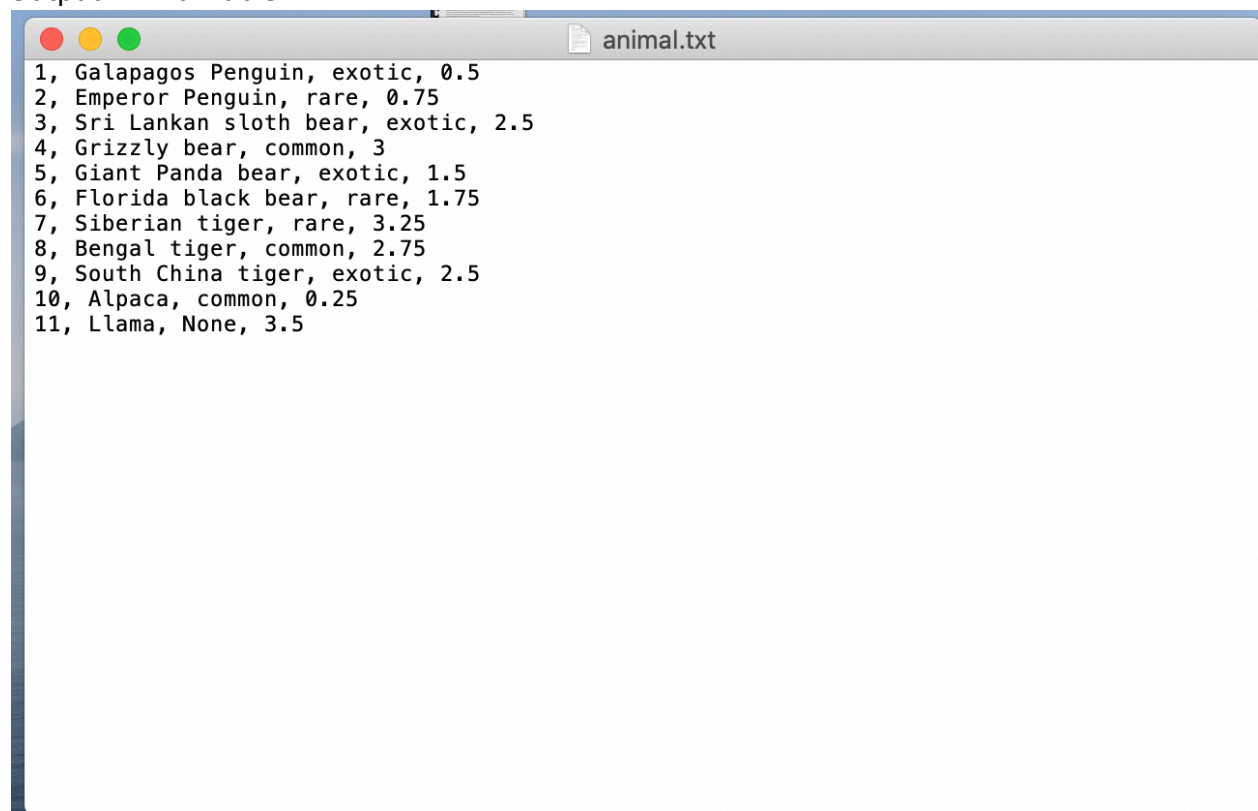
```
conn.commit() # finalize inserted data  
conn.close()  # close the connection
```

```
cursor = conn.cursor()
```

```
cursor.execute("select * from Animal")
rows = cursor.fetchall()
row_1 = [item for x in rows for item in x]
row_1 = [str(i) for i in row_1]
row_1=[row_1[x:x+4]for x in range(0, len(row_1), 4)]
```

```
with open('animal.txt', 'w') as f:
    for item in row_1:
        f.write(", ".join(item) + '\n')
```

Output Animal Table:



```
1, Galapagos Penguin, exotic, 0.5
2, Emperor Penguin, rare, 0.75
3, Sri Lankan sloth bear, exotic, 2.5
4, Grizzly bear, common, 3
5, Giant Panda bear, exotic, 1.5
6, Florida black bear, rare, 1.75
7, Siberian tiger, rare, 3.25
8, Bengal tiger, common, 2.75
9, South China tiger, exotic, 2.5
10, Alpaca, common, 0.25
11, Llama, None, 3.5
```