Module 5: Debugging, Databases and Project Skeletons

Assignment

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1. Correct the below code so that the output should be the version number.

```
[Example: SQLite version: 3.6.21]
import sqlite3
con = sqlite3.connect('test.db')
with con:

cur = con.cursor()
 cur.execute('SELECT xxxxxx')

data = cur.fetchone()

print "SQLite version: %s" % data
```

2. Correct the below program so that it should display the last inserted row id.

```
[Expected output: The last Id of the inserted row is 4]
import sqlite3
con = sqlite3.connect('new_db')
with con:

cur = con.cursor()
cur.execute("CREATE TABLE Friends(Id INTEGER PRIMARY KEY, Name TEXT);")
cur.execute("INSERT INTO Friends(Name) VALUES ('Tom');")
cur.execute("INSERT INTO Friends(Name) VALUES ('Rebecca');")
cur.execute("INSERT INTO Friends(Name) VALUES ('Jim');")
cur.execute("INSERT INTO Friends(Name) VALUES ('Robert');")
```

print "The last Id of the inserted row is %d" %

3. Correct the below code so that it checks weather database exists or not.

```
import os
import sqlite3

db_filename = 'todo.db'

db_is_new = not xxxxxxx(db_filename)
```

conn = sqlite3.connect(db_filename)

if db_is_new:
 print 'Need to create schema'

print 'Creating database'

else:

print 'Database exists, assume schema does, too.'

conn.close()

4. If Car is a table already created. What is the key word in place of "XXXX" to be used to display the column names of Cars table?

import sqlite3 as lite
import sys
con = lite.connect('test.db')
with con:

```
cur = con.cursor()
cur.execute("SELECT * FROM Cars")
for colinfo in cur.XXXX:
    print colinfo
```

5. Below program is for creating car's table and inserting values. But some corrections are needed. Correct the errors and execute this code.

```
import sqlite3 as lite

cars = (
     (1, 'Audi', 52642),
     (2, 'Mercedes', 57127),
     (3, 'Skoda', 9000),
     (4, 'Volvo', 29000),
     (5, 'Bentley', 350000),
     (6, 'Hummer', 41400),
     (7, 'Volkswagen', 21600)
)

con = lite.connect('test.db')
with con:
    cur = con.cursor()
    cur.execute("DROP TABLE IF EXISTS Cars")
    cur.execute("CREATE TABLE Cars(Id INT, Name TEXT, Price INT)")
```

cur.XXX("INSERT INTO Cars VALUES(?, ?, ?)", cars)

6. If the question 5 is successfully executed then retrieve the data by correcting the below code.

```
import sqlite3 as lite
con = lite.connect('test.db')
with con:

cur = con.cursor()
cur.execute("SELECT * FROM Cars")
rows = cur.xxxxx()
for row in rows:
    print row
```

7. Correct the below code. [Note: Question 5 should be successfully executed]

```
import sqlite3 as lite
```

```
con = lite.connect('test.db')
with con:
```

con.row_factory = lite.XXX

```
cur = con.cursor()
cur.execute("SELECT * FROM Cars")
rows = cur.fetchall()
for row in rows:
    print "%s %s %s" % (row["Id"], row["Name"], row["Price"])
```

8. Correct the below code and it should update the values.

```
import sqlite3 as lite
import sys
uld = 1
uPrice = 62300
con = lite.connect('test.db')
with con:
    cur = con.cursor()
    cur.execute("UPDATE Cars SET Price=? WHERE Id=?", (X, Y))
    con.commit()

print "Number of rows updated: %d" % cur.rowcount
```

9. Correct the below code so that it displays the metadata info of the cars table.

```
import sqlite3 as lite
con = lite.connect('test.db')
with con:

cur = con.cursor()

cur.execute('XXXXX table_info(Cars)')

data = cur.fetchall()

for d in data:
    print d[0], d[1], d[2]
```

10. Correct the below code so that it displays all the rows from the Cars table with their column names.

```
import sqlite3 as lite
con = lite.connect('test.db')
with con:

cur = con.cursor()
cur.execute('SELECT * FROM Cars')

col_names = [cn[0] for cn in cur.XXXX]

rows = cur.XXXXI()

print "%s %-10s %s" % (col_names[0], col_names[1], col_names[2])
for row in rows:
    print "%2s %-10s %s" % row
```

11. Write python program which loads "sample-storedata.csv" file data into "store" table in sqlite3.

"sample-storedata.csv" is supplied.

- 12. Fetch all the rows in store table created.
- 13. Fetch the column names of the store table created.