```
====================================================
#####################
### Original Python2 File:
### alter.py
#####################

for i in range(10):
  print i,
print

sql:
  CREATE TABLE new_Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int,
    birthday int
  )
  DATABASEPRINT

  ALTER TABLE new_Customers ADD gender VARCHAR(1)
  DATABASEPRINT

  ALTER TABLE new_Customers ALTER COLUMN gender INT
  DATABASEPRINT

  ALTER TABLE new_Customers DROP COLUMN birthday
  DATABASEPRINT
:sql

====================================================
### Converted Python File:

for i in range(10):
  print i,
print

print "Database:"
print "current_record:0"
print "datatypes:{'new_Customers': {'phone': {'INT': -1}, 'birthday': {'INT': -1}, 'last':
{'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}}}"
print "new_Customers:[]"
print "new_Customers_fields:['name', 'last', 'phone', 'birthday']"
print "triples:[]"
print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
print
print "Database:"
print "current_record:0"
print "datatypes:{'new_Customers': {'phone': {'INT': -1}, 'birthday': {'INT': -1}, 'last':
{'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}, 'gender': {'VARCHAR': '1'}}}"
print "new_Customers:[]"
print "new_Customers_fields:['name', 'last', 'phone', 'birthday', 'gender']"
print "triples:[]"
```

```python
  print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
  print
  print "Database:"
  print "current_record:0"
  print "datatypes:{'new_Customers': {'phone': {'INT': -1}, 'birthday': {'INT': -1}, 'last':
{'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}, 'gender': {'INT': -1}}}"
  print "new_Customers:[]"
  print "new_Customers_fields:['name', 'last', 'phone', 'birthday', 'gender']"
  print "triples:[]"
  print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
  print
  print "Database:"
  print "current_record:0"
  print "datatypes:{'new_Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name':
{'VARCHAR': '100'}, 'gender': {'INT': -1}}}"
  print "new_Customers:[]"
  print "new_Customers_fields:['name', 'last', 'phone', 'gender']"
  print "triples:[]"
  print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
  print
```

==

Console Output:

```
0 1 2 3 4 5 6 7 8 9
Database:
current_record:0
datatypes:{'new_Customers': {'phone': {'INT': -1}, 'birthday': {'INT': -1}, 'last': {'VARCHAR': '15'},
'name': {'VARCHAR': '100'}}}
new_Customers:[]
new_Customers_fields:['name', 'last', 'phone', 'birthday']
triples:[]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']

Database:
current_record:0
datatypes:{'new_Customers': {'phone': {'INT': -1}, 'birthday': {'INT': -1}, 'last': {'VARCHAR': '15'},
'name': {'VARCHAR': '100'}, 'gender': {'VARCHAR': '1'}}}
new_Customers:[]
new_Customers_fields:['name', 'last', 'phone', 'birthday', 'gender']
triples:[]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']

Database:
current_record:0
datatypes:{'new_Customers': {'phone': {'INT': -1}, 'birthday': {'INT': -1}, 'last': {'VARCHAR': '15'},
'name': {'VARCHAR': '100'}, 'gender': {'INT': -1}}}
new_Customers:[]
new_Customers_fields:['name', 'last', 'phone', 'birthday', 'gender']
triples:[]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']
```

```
Database:
current_record:0
datatypes:{'new_Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR':
'100'}, 'gender': {'INT': -1}}}
new_Customers:[]
new_Customers_fields:['name', 'last', 'phone', 'gender']
triples:[]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']


====================================================
#####################
### Original Python2 File:
### create.py
#####################

for i in range(10):
  print i,
print

sql:
  CREATE TABLE Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int,
    birthday VARCHAR(20)
  )
  CREATE TABLE Noncustomers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int
  )
  CREATE TABLE Housing (
    person VARCHAR(100) ,
    floor int,
    room VARCHAR(4),
    phone int
  )
:sql

sql: DATABASEPRINT :sql


====================================================
### Converted Python File:

for i in range(10):
  print i,
print
```

```
print "Database:"
print "Customers:[]"
print "Customers_fields:['name', 'last', 'phone', 'birthday']"
print "Housing:[]"
print "Housing_fields:['person', 'floor', 'room', 'phone']"
print "Noncustomers:[]"
print "Noncustomers_fields:['name', 'last', 'phone']"
print "current_record:0"
print "datatypes:{'Noncustomers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name':
{'VARCHAR': '100'}}, 'Customers': {'phone': {'INT': -1}, 'birthday': {'VARCHAR': '20'}, 'last':
{'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}}, 'Housing': {'person': {'VARCHAR': '100'}, 'room':
{'VARCHAR': '4'}, 'phone': {'INT': -1}, 'floor': {'INT': -1}}}"
print "triples:[]"
print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
print
```

```
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### Console Output:

0 1 2 3 4 5 6 7 8 9
Database:
Customers:[]
Customers_fields:['name', 'last', 'phone', 'birthday']
Housing:[]
Housing_fields:['person', 'floor', 'room', 'phone']
Noncustomers:[]
Noncustomers_fields:['name', 'last', 'phone']
current_record:0
datatypes:{'Noncustomers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR': '100'
}}, 'Customers': {'phone': {'INT': -1}, 'birthday': {'VARCHAR': '20'}, 'last': {'VARCHAR': '15'}, 'name'
: {'VARCHAR': '100'}}, 'Housing': {'person': {'VARCHAR': '100'}, 'room': {'VARCHAR': '4'}, 'phone': {
'INT': -1}, 'floor': {'INT': -1}}}
triples:[]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']

=====================================================
#####################
### Original Python2 File:
### delete.py
#####################

for i in range(10):
  print i,
print

sql:
  CREATE TABLE new_Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int,
```

```
    birthday int
  )
  INSERT INTO new_Customers VALUES ('Lake', 'Travis', 911, 1)
  INSERT INTO new_Customers VALUES ('Absente', 'Mee', 302740, 8)
  INSERT INTO new_Customers VALUES ('Burbple', 'Durple', 8837232, 7)
  INSERT INTO new_Customers VALUES ('Hes', 'ABob', 8675309, 2)
  INSERT INTO new_Customers VALUES ('See', 'Mee', 302740, 1)
  INSERT INTO new_Customers VALUES ('Jose', 'Nosey', 928223, 2)
  INSERT INTO new_Customers VALUES ('Miggh', 'Tyfine', 124967, 2)
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers WHERE last='Nope'
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers WHERE phone='ABob'
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers WHERE phone=8837232
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers WHERE last='ABob'
:sql
sql:
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers WHERE last='Mee' AND phone=98478
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers WHERE last='Knee' AND phone=302740
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers WHERE last='Mee' AND phone=302740
  PRINT SELECT * FROM new_Customers

  DELETE FROM new_Customers
:sql


========================================================
### Converted Python File:

for i in range(10):
  print i,
print


print 'new_Customers:'
print '|------------------------------------------------------------'
print '|  name            |  last           |  phone          |  birthday        |'
print '|------------------------------------------------------------'
print '|  Lake            |  Travis         |  911            |  1               |'
print '|  Absente         |  Mee            |  302740         |  8               |'
print '|  Burbple         |  Durple         |  8837232        |  7               |'
print '|  Hes             |  ABob           |  8675309        |  2               |'
```

```
print '|   See      | Mee       | 302740      | 1         |'
print '|   Jose     | Nosey     | 928223      | 2         |'
print '|   Miggh    | Tyfine    | 124967      | 2         |'
print '|------------------------------------------------------------'
print 'new_Customers:'
print '|------------------------------------------------------------'
print '|   name     | last      | phone       | birthday  |'
print '|------------------------------------------------------------'
print '|   Lake     | Travis    | 911         | 1         |'
print '|   Absente  | Mee       | 302740      | 8         |'
print '|   Burbple  | Durple    | 8837232     | 7         |'
print '|   Hes      | ABob      | 8675309     | 2         |'
print '|   See      | Mee       | 302740      | 1         |'
print '|   Jose     | Nosey     | 928223      | 2         |'
print '|   Miggh    | Tyfine    | 124967      | 2         |'
print '|------------------------------------------------------------'
print 'new_Customers:'
print '|------------------------------------------------------------'
print '|   name     | last      | phone       | birthday  |'
print '|------------------------------------------------------------'
print '|   Lake     | Travis    | 911         | 1         |'
print '|   Absente  | Mee       | 302740      | 8         |'
print '|   Burbple  | Durple    | 8837232     | 7         |'
print '|   Hes      | ABob      | 8675309     | 2         |'
print '|   See      | Mee       | 302740      | 1         |'
print '|   Jose     | Nosey     | 928223      | 2         |'
print '|   Miggh    | Tyfine    | 124967      | 2         |'
print '|------------------------------------------------------------'
print 'new_Customers:'
print '|------------------------------------------------------------'
print '|   name     | last      | phone       | birthday  |'
print '|------------------------------------------------------------'
print '|   Lake     | Travis    | 911         | 1         |'
print '|   Absente  | Mee       | 302740      | 8         |'
print '|   Hes      | ABob      | 8675309     | 2         |'
print '|   See      | Mee       | 302740      | 1         |'
print '|   Jose     | Nosey     | 928223      | 2         |'
print '|   Miggh    | Tyfine    | 124967      | 2         |'
print '|------------------------------------------------------------'

print 'new_Customers:'
print '|------------------------------------------------------------'
print '|   name     | last      | phone       | birthday  |'
print '|------------------------------------------------------------'
print '|   Lake     | Travis    | 911         | 1         |'
print '|   Absente  | Mee       | 302740      | 8         |'
print '|   See      | Mee       | 302740      | 1         |'
print '|   Jose     | Nosey     | 928223      | 2         |'
print '|   Miggh    | Tyfine    | 124967      | 2         |'
print '|------------------------------------------------------------'
print 'new_Customers:'
print '|------------------------------------------------------------'
```

```
print '|   name         | last          | phone         | birthday      |'
print '|---------------------------------------------------------------'
print '|   Lake         | Travis        | 911           | 1             |'
print '|   Absente      | Mee           | 302740        | 8             |'
print '|   See          | Mee           | 302740        | 1             |'
print '|   Jose         | Nosey         | 928223        | 2             |'
print '|   Miggh        | Tyfine        | 124967        | 2             |'
print '|---------------------------------------------------------------'
print 'new_Customers:'
print '|---------------------------------------------------------------'
print '|   name         | last          | phone         | birthday      |'
print '|---------------------------------------------------------------'
print '|   Lake         | Travis        | 911           | 1             |'
print '|   Absente      | Mee           | 302740        | 8             |'
print '|   See          | Mee           | 302740        | 1             |'
print '|   Jose         | Nosey         | 928223        | 2             |'
print '|   Miggh        | Tyfine        | 124967        | 2             |'
print '|---------------------------------------------------------------'
print 'new_Customers:'
print '|---------------------------------------------------------------'
print '|   name         | last          | phone         | birthday      |'
print '|---------------------------------------------------------------'
print '|   Lake         | Travis        | 911           | 1             |'
print '|   Jose         | Nosey         | 928223        | 2             |'
print '|   Miggh        | Tyfine        | 124967        | 2             |'
print '|---------------------------------------------------------------'


=======================================================
### Console Output:


0 1 2 3 4 5 6 7 8 9
new_Customers:
|---------------------------------------------------------------
|   name         | last          | phone         | birthday      |
|---------------------------------------------------------------
|   Lake         | Travis        | 911           | 1             |
|   Absente      | Mee           | 302740        | 8             |
|   Burbple      | Durple        | 8837232       | 7             |
|   Hes          | ABob          | 8675309       | 2             |
|   See          | Mee           | 302740        | 1             |
|   Jose         | Nosey         | 928223        | 2             |
|   Miggh        | Tyfine        | 124967        | 2             |
|---------------------------------------------------------------
new_Customers:
|---------------------------------------------------------------
|   name         | last          | phone         | birthday      |
|---------------------------------------------------------------
|   Lake         | Travis        | 911           | 1             |
|   Absente      | Mee           | 302740        | 8             |
|   Burbple      | Durple        | 8837232       | 7             |
|   Hes          | ABob          | 8675309       | 2             |
|   See          | Mee           | 302740        | 1             |
```

| Jose | Nosey | 928223 | 2 |
| Miggh | Tyfine | 124967 | 2 |

new_Customers:

name	last	phone	birthday
Lake	Travis	911	1
Absente	Mee	302740	8
Burbple	Durple	8837232	7
Hes	ABob	8675309	2
See	Mee	302740	1
Jose	Nosey	928223	2
Miggh	Tyfine	124967	2

new_Customers:

name	last	phone	birthday
Lake	Travis	911	1
Absente	Mee	302740	8
Hes	ABob	8675309	2
See	Mee	302740	1
Jose	Nosey	928223	2
Miggh	Tyfine	124967	2

new_Customers:

name	last	phone	birthday
Lake	Travis	911	1
Absente	Mee	302740	8
See	Mee	302740	1
Jose	Nosey	928223	2
Miggh	Tyfine	124967	2

new_Customers:

name	last	phone	birthday
Lake	Travis	911	1
Absente	Mee	302740	8
See	Mee	302740	1
Jose	Nosey	928223	2
Miggh	Tyfine	124967	2

new_Customers:

name	last	phone	birthday
Lake	Travis	911	1
Absente	Mee	302740	8

| See | Mee | 302740 | 1 | |
| Jose | Nosey | 928223 | 2 | |
Miggh	Tyfine	124967	2	

new_Customers:

name	last	phone	birthday	
Lake	Travis	911	1	
Jose	Nosey	928223	2	
Miggh	Tyfine	124967	2	

==

####################
Original Python2 File:
drop.py
####################

```python
for i in range(10):
  print i,
print

sql:
  CREATE TABLE Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int
  )
  INSERT INTO Customers VALUES ('Phil', 'Cannata', 7735647)
  INSERT INTO Customers VALUES ('Matthew', 'Clarkson', 9875643)
  INSERT INTO Customers VALUES ('Joaquin', 'Casares', 3451878)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 9345879)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 5123789)
  INSERT INTO Customers VALUES ('Joaquin', 'Guadalupe', 8845748)
  PRINT SELECT * FROM Customers

  DROP INDEX name ON Customers
  PRINT SELECT * FROM Customers

  DROP INDEX blah ON Customers

  DROP TABLE Nope

  DROP TABLE Customers
  DATABASEPRINT
:sql
```

==
Converted Python File:

```python
for i in range(10):
  print i,
```

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```python
print

print 'Customers:'
print '|-------------------------------------------------'
print '|  name           |  last            |  phone          |'
print '|-------------------------------------------------'
print '|  Phil           |  Cannata         |  7735647        |'
print '|  Matthew        |  Clarkson        |  9875643        |'
print '|  Joaquin        |  Casares         |  3451878        |'
print '|  Joaquin        |  Joaquin         |  9345879        |'
print '|  Joaquin        |  Joaquin         |  5123789        |'
print '|  Joaquin        |  Guadalupe       |  8845748        |'
print '|-------------------------------------------------'
print 'Customers:'
print '|-------------------------------'
print '|  last           |  phone          |'
print '|-------------------------------'
print '|  Cannata        |  7735647        |'
print '|  Clarkson       |  9875643        |'
print '|  Casares        |  3451878        |'
print '|  Joaquin        |  9345879        |'
print '|  Joaquin        |  5123789        |'
print '|  Guadalupe      |  8845748        |'
print '|-------------------------------'
print "Database:"
print "current_record:6"
print "datatypes:{}"
print "triples:[]"
print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
print
```

```
====================================================
### Console Output:

Field: blah does not exist. Table unchanged.
Table: Nope does not exist. Database unchanged.
0 1 2 3 4 5 6 7 8 9
Customers:
|-------------------------------------------------
|  name           |  last            |  phone          |
|-------------------------------------------------
|  Phil           |  Cannata         |  7735647        |
|  Matthew        |  Clarkson        |  9875643        |
|  Joaquin        |  Casares         |  3451878        |
|  Joaquin        |  Joaquin         |  9345879        |
|  Joaquin        |  Joaquin         |  5123789        |
|  Joaquin        |  Guadalupe       |  8845748        |
|-------------------------------------------------
Customers:
|-------------------------------
|  last           |  phone          |
```

```
|----------------------------------
|   Cannata      |   7735647         |
|   Clarkson     |   9875643         |
|   Casares      |   3451878         |
|   Joaquin      |   9345879         |
|   Joaquin      |   5123789         |
|   Guadalupe    |   8845748         |
|----------------------------------
Database:
current_record:6
datatypes:{}
triples:[]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']


========================================================

####################
### Original Python2 File:
### insert.py
####################

for i in range(10):
  print i,
print

sql:
  CREATE TABLE Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int
  )
  INSERT INTO Customers VALUES ('Phil', 'Cannata', 7735647)
  INSERT INTO Customers VALUES ('Matthew', 'Clarkson', 9875643)
  INSERT INTO Customers VALUES ('Joaquin', 'Casares', 3451878)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 9345879)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 5123789)
  INSERT INTO Customers VALUES ('Joaquin', 'Guadalupe', 8845748)
:sql

sql: DATABASEPRINT :sql

sql:PRINT SELECT * FROM Customers:sql


========================================================
### Converted Python File:

for i in range(10):
  print i,
print



print "Database:"
```

```python
  print "Customers:[1, 2, 3, 4, 5, 6]"
  print "Customers_fields:['name', 'last', 'phone']"
  print "current_record:6"
  print "datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR':
'100'}}}"
  print "triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name',
'Matthew'), (2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last',
'Casares'), (3, 'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone',
9345879), (5, 'name', 'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name',
'Joaquin'), (6, 'last', 'Guadalupe'), (6, 'phone', 8845748)]"
  print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
  print


  print 'Customers:'
  print '|------------------------------------------------'
  print '|  name          |  last           |  phone          |'
  print '|------------------------------------------------'
  print '|  Phil          |  Cannata        |  7735647        |'
  print '|  Matthew       |  Clarkson       |  9875643        |'
  print '|  Joaquin       |  Casares        |  3451878        |'
  print '|  Joaquin       |  Joaquin        |  9345879        |'
  print '|  Joaquin       |  Joaquin        |  5123789        |'
  print '|  Joaquin       |  Guadalupe      |  8845748        |'
  print '|------------------------------------------------'
```

```
  =====================================================
  ### Console Output:

  0 1 2 3 4 5 6 7 8 9
  Database:
  Customers:[1, 2, 3, 4, 5, 6]
  Customers_fields:['name', 'last', 'phone']
  current_record:6
  datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}}}
  triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name', 'Matthew'), (
2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last', 'Casares'), (3,
'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone', 9345879), (5, 'name',
'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name', 'Joaquin'), (6, 'last',
'Guadalupe'), (6, 'phone', 8845748)]
  valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']

  Customers:
  |------------------------------------------------
  |  name          |  last           |  phone          |
  |------------------------------------------------
  |  Phil          |  Cannata        |  7735647        |
  |  Matthew       |  Clarkson       |  9875643        |
  |  Joaquin       |  Casares        |  3451878        |
  |  Joaquin       |  Joaquin        |  9345879        |
  |  Joaquin       |  Joaquin        |  5123789        |
```

```
|  Joaquin        |  Guadalupe  |   8845748      |
|------------------------------------------------
=====================================================

#####################
### Original Python2 File:
### joins.py
#####################

for i in range(10):
  print i,
print

sql:
  CREATE TABLE Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int
  )
  INSERT INTO Customers VALUES ('Phil', 'Cannata', 7735647)
  INSERT INTO Customers VALUES ('Matthew', 'Clarkson', 9875643)
  INSERT INTO Customers VALUES ('Joaquin', 'Casares', 3451878)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 9345879)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 5123789)
  INSERT INTO Customers VALUES ('Joaquin', 'Guadalupe', 8845748)
:sql

sql: DATABASEPRINT :sql

sql:PRINT SELECT * FROM Customers:sql


=====================================================
### Converted Python File:

for i in range(10):
  print i,
print



print "Database:"
print "Customers:[1, 2, 3, 4, 5, 6]"
print "Customers_fields:['name', 'last', 'phone']"
print "current_record:6"
print "datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR':
'100'}}}"
print "triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name',
'Matthew'), (2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last',
'Casares'), (3, 'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone',
9345879), (5, 'name', 'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name',
'Joaquin'), (6, 'last', 'Guadalupe'), (6, 'phone', 8845748)]"
print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
print
```

```
print 'Customers:'
print '|----------------------------------------------'
print '|  name           |  last           |  phone          |'
print '|----------------------------------------------'
print '|  Phil           |  Cannata        |  7735647        |'
print '|  Matthew        |  Clarkson       |  9875643        |'
print '|  Joaquin        |  Casares        |  3451878        |'
print '|  Joaquin        |  Joaquin        |  9345879        |'
print '|  Joaquin        |  Joaquin        |  5123789        |'
print '|  Joaquin        |  Guadalupe      |  8845748        |'
print '|----------------------------------------------'
```

```
=======================================================
### Console Output:

0 1 2 3 4 5 6 7 8 9
Database:
Customers:[1, 2, 3, 4, 5, 6]
Customers_fields:['name', 'last', 'phone']
current_record:6
datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}}}
triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name', 'Matthew'), (
2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last', 'Casares'), (3,
'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone', 9345879), (5, 'name',
'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name', 'Joaquin'), (6, 'last',
'Guadalupe'), (6, 'phone', 8845748)]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']

Customers:
|----------------------------------------------
|  name           |  last           |  phone          |
|----------------------------------------------
|  Phil           |  Cannata        |  7735647        |
|  Matthew        |  Clarkson       |  9875643        |
|  Joaquin        |  Casares        |  3451878        |
|  Joaquin        |  Joaquin        |  9345879        |
|  Joaquin        |  Joaquin        |  5123789        |
|  Joaquin        |  Guadalupe      |  8845748        |
|----------------------------------------------
=======================================================
####################
### Original Python2 File:
### select.py
####################

for i in range(10):
  print i,
print
```

```
sql:
  CREATE TABLE Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int
  )
  INSERT INTO Customers VALUES ('Phil', 'Cannata', 7735647)
  INSERT INTO Customers VALUES ('Matthew', 'Clarkson', 9875643)
  INSERT INTO Customers VALUES ('Joaquin', 'Casares', 3451878)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 9345879)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 5123789)
  INSERT INTO Customers VALUES ('Joaquin', 'Guadalupe', 8845748)
:sql

print 'What follows gets sent to the actual python code.'
print 'Not the output window.'
sql:
  SELECT DISTINCT name, last FROM Customers
:sql
sql:
  SELECT DISTINCT name FROM Customers
:sql
sql:
  SELECT name, last, phone FROM Customers
:sql
sql:
  SELECT name, last, phone FROM Customers WHERE phone > 6001234
:sql
sql:
  SELECT name, last, phone FROM Customers WHERE phone <> 7735647
:sql
print '------------------------------------------------------------------'

print
sql: PRINT SELECT * FROM Customers
       ORDER BY name asc
:sql
print

print
sql: PRINT SELECT * FROM Customers
       ORDER BY last desc
:sql
print

print 'All rows: '
for a in sql:SELECT * FROM Customers:sql :
  print a,
print '\n'

print 'All phone numbers: '
for a in sql:SELECT phone FROM Customers:sql :
```

```
  print a,
 print '\n'


 print 7735647 in sql:CONTENTS SELECT phone FROM Customers:sql
 print 7735647 in sql:CONTENTS SELECT * FROM Customers:sql
 print


 for i in sql:CONTENTS SELECT * FROM Customers:sql:
   print i,
 print '\n'


 sql: DATABASEPRINT :sql


 sql:PRINT SELECT * FROM Customers:sql


 ======================================================
 ### Converted Python File:


 for i in range(10):
   print i,
 print



 print 'What follows gets sent to the actual python code.'
 print 'Not the output window.'
 [['Phil', 'Cannata'], ['Matthew', 'Clarkson'], ['Joaquin', 'Casares'], ['Joaquin', 'Joaquin'], [
'Joaquin', 'Guadalupe']]
 [['Phil'], ['Matthew'], ['Joaquin']]
 [['Phil', 'Cannata', 7735647], ['Matthew', 'Clarkson', 9875643], ['Joaquin', 'Casares', 3451878], [
'Joaquin', 'Joaquin', 9345879], ['Joaquin', 'Joaquin', 5123789], ['Joaquin', 'Guadalupe', 8845748]]
 [['Phil', 'Cannata', 7735647], ['Matthew', 'Clarkson', 9875643], ['Joaquin', 'Joaquin', 9345879], [
'Joaquin', 'Guadalupe', 8845748]]
 [['Matthew', 'Clarkson', 9875643], ['Joaquin', 'Casares', 3451878], ['Joaquin', 'Joaquin', 9345879], [
'Joaquin', 'Joaquin', 5123789], ['Joaquin', 'Guadalupe', 8845748]]
   print '---------------------------------------------------------------------'

 print
 print 'Customers:'
 print '|-----------------------------------------------'
 print '|  name           |  last            |  phone            |'
 print '|-----------------------------------------------'
 print '|  Joaquin        |  Casares         |  3451878          |'
 print '|  Joaquin        |  Joaquin         |  9345879          |'
 print '|  Joaquin        |  Joaquin         |  5123789          |'
 print '|  Joaquin        |  Guadalupe       |  8845748          |'
 print '|  Matthew        |  Clarkson        |  9875643          |'
 print '|  Phil           |  Cannata         |  7735647          |'
 print '|-----------------------------------------------'

 print
```

```python
 print
 print 'Customers:'
 print '|----------------------------------------------'
 print '|  name           |  last          |  phone        |'
 print '|----------------------------------------------'
 print '|  Joaquin        |  Joaquin       |  5123789      |'
 print '|  Joaquin        |  Joaquin       |  9345879      |'
 print '|  Joaquin        |  Guadalupe     |  8845748      |'
 print '|  Matthew        |  Clarkson      |  9875643      |'
 print '|  Joaquin        |  Casares       |  3451878      |'
 print '|  Phil           |  Cannata       |  7735647      |'
 print '|----------------------------------------------'

 print

 print 'All rows: '
 for a in [['Phil', 'Cannata', 7735647], ['Matthew', 'Clarkson', 9875643], ['Joaquin', 'Casares',
3451878], ['Joaquin', 'Joaquin', 9345879], ['Joaquin', 'Joaquin', 5123789], ['Joaquin', 'Guadalupe',
8845748]] :
    print a,
 print '\n'

 print 'All phone numbers: '
 for a in [[7735647], [9875643], [3451878], [9345879], [5123789], [8845748]] :
    print a,
 print '\n'

 print 7735647 in [7735647, 9875643, 3451878, 9345879, 5123789, 8845748]
 print 7735647 in ['Phil', 'Cannata', 7735647, 'Matthew', 'Clarkson', 9875643, 'Joaquin', 'Casares',
3451878, 'Joaquin', 'Joaquin', 9345879, 'Joaquin', 'Joaquin', 5123789, 'Joaquin', 'Guadalupe', 8845748]
 print

 for i in ['Phil', 'Cannata', 7735647, 'Matthew', 'Clarkson', 9875643, 'Joaquin', 'Casares', 3451878,
'Joaquin', 'Joaquin', 9345879, 'Joaquin', 'Joaquin', 5123789, 'Joaquin', 'Guadalupe', 8845748]:
    print i,
 print '\n'

 print "Database:"
 print "Customers:[1, 2, 3, 4, 5, 6]"
 print "Customers_fields:['name', 'last', 'phone']"
 print "current_record:6"
 print "datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR':
'100'}}}"
 print "triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name',
'Matthew'), (2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last',
'Casares'), (3, 'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone',
9345879), (5, 'name', 'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name',
'Joaquin'), (6, 'last', 'Guadalupe'), (6, 'phone', 8845748)]"
 print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
 print
```

```
print 'Customers:'
print '|-------------------------------------------'
print '|  name          |  last          |  phone          |'
print '|-------------------------------------------'
print '|  Phil          |  Cannata       |  7735647        |'
print '|  Matthew       |  Clarkson      |  9875643        |'
print '|  Joaquin       |  Casares       |  3451878        |'
print '|  Joaquin       |  Joaquin       |  9345879        |'
print '|  Joaquin       |  Joaquin       |  5123789        |'
print '|  Joaquin       |  Guadalupe     |  8845748        |'
print '|-------------------------------------------'
```

```
=================================================
### Console Output:

0 1 2 3 4 5 6 7 8 9
What follows gets sent to the actual python code.
Not the output window.
-----------------------------------------------------------------------

Customers:
|-------------------------------------------
|  name          |  last          |  phone          |
|-------------------------------------------
|  Joaquin       |  Casares       |  3451878        |
|  Joaquin       |  Joaquin       |  9345879        |
|  Joaquin       |  Joaquin       |  5123789        |
|  Joaquin       |  Guadalupe     |  8845748        |
|  Matthew       |  Clarkson      |  9875643        |
|  Phil          |  Cannata       |  7735647        |
|-------------------------------------------


Customers:
|-------------------------------------------
|  name          |  last          |  phone          |
|-------------------------------------------
|  Joaquin       |  Joaquin       |  5123789        |
|  Joaquin       |  Joaquin       |  9345879        |
|  Joaquin       |  Guadalupe     |  8845748        |
|  Matthew       |  Clarkson      |  9875643        |
|  Joaquin       |  Casares       |  3451878        |
|  Phil          |  Cannata       |  7735647        |
|-------------------------------------------

All rows:
['Phil', 'Cannata', 7735647] ['Matthew', 'Clarkson', 9875643] ['Joaquin', 'Casares', 3451878] [
'Joaquin', 'Joaquin', 9345879] ['Joaquin', 'Joaquin', 5123789] ['Joaquin', 'Guadalupe', 8845748]

All phone numbers:
[7735647] [9875643] [3451878] [9345879] [5123789] [8845748]
```

```
  True
  True


  Phil Cannata 7735647 Matthew Clarkson 9875643 Joaquin Casares 3451878 Joaquin Joaquin 9345879 Joaquin
Joaquin 5123789 Joaquin Guadalupe 8845748


  Database:
  Customers:[1, 2, 3, 4, 5, 6]
  Customers_fields:['name', 'last', 'phone']
  current_record:6
  datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}}}
  triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name', 'Matthew'), (
2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last', 'Casares'), (3,
'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone', 9345879), (5, 'name',
'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name', 'Joaquin'), (6, 'last',
'Guadalupe'), (6, 'phone', 8845748)]
  valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']


  Customers:
  |--------------------------------------------------
  |   name          |   last          |   phone          |
  |--------------------------------------------------
  |   Phil          |   Cannata       |   7735647        |
  |   Matthew       |   Clarkson      |   9875643        |
  |   Joaquin       |   Casares       |   3451878        |
  |   Joaquin       |   Joaquin       |   9345879        |
  |   Joaquin       |   Joaquin       |   5123789        |
  |   Joaquin       |   Guadalupe     |   8845748        |
  |--------------------------------------------------
  ==================================================
  #####################
  ### Original Python2 File:
  ### truncate.py
  #####################


for i in range(10):
  print i,
print


sql:
  CREATE TABLE Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int
  )
  INSERT INTO Customers VALUES ('Phil', 'Cannata', 7735647)
  INSERT INTO Customers VALUES ('Matthew', 'Clarkson', 9875643)
  INSERT INTO Customers VALUES ('Joaquin', 'Casares', 3451878)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 9345879)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 5123789)
  INSERT INTO Customers VALUES ('Joaquin', 'Guadalupe', 8845748)
```

```
  DATABASEPRINT
  TRUNCATE TABLE Firsts
  TRUNCATE TABLE Customers
  DATABASEPRINT
:sql
```

```
========================================================
### Converted Python File:

for i in range(10):
  print i,
print

print "Database:"
print "Customers:[1, 2, 3, 4, 5, 6]"
print "Customers_fields:['name', 'last', 'phone']"
print "current_record:6"
print "datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR':
'100'}}}"
 print "triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name',
'Matthew'), (2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last',
'Casares'), (3, 'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone',
9345879), (5, 'name', 'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name',
'Joaquin'), (6, 'last', 'Guadalupe'), (6, 'phone', 8845748)]"
 print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
 print
 print "Database:"
 print "Customers:[]"
 print "Customers_fields:[]"
 print "current_record:6"
 print "datatypes:{}"
 print "triples:[]"
 print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
 print


========================================================
### Console Output:

Table: Firsts does not exist. Database unchanged.
0 1 2 3 4 5 6 7 8 9
Database:
Customers:[1, 2, 3, 4, 5, 6]
Customers_fields:['name', 'last', 'phone']
current_record:6
datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}}}
 triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name', 'Matthew'), (
2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last', 'Casares'), (3,
'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone', 9345879), (5, 'name',
'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name', 'Joaquin'), (6, 'last',
'Guadalupe'), (6, 'phone', 8845748)]
 valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']
```

```
Database:
Customers:[]
Customers_fields:[]
current_record:6
datatypes:{}
triples:[]
valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']


=====================================================
####################
### Original Python2 File:
### union.py
####################

for i in range(10):
  print i,
print

sql:
  CREATE TABLE Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int
  )
  INSERT INTO Customers VALUES ('Phil', 'Cannata', 7735647)
  INSERT INTO Customers VALUES ('Matthew', 'Clarkson', 9875643)
  INSERT INTO Customers VALUES ('Joaquin', 'Casares', 3451878)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 9345879)
  INSERT INTO Customers VALUES ('Joaquin', 'Joaquin', 5123789)
  INSERT INTO Customers VALUES ('Joaquin', 'Guadalupe', 8845748)
:sql

sql: DATABASEPRINT :sql

sql:PRINT SELECT * FROM Customers:sql

=====================================================
### Converted Python File:

for i in range(10):
  print i,
print



print "Database:"
print "Customers:[1, 2, 3, 4, 5, 6]"
print "Customers_fields:['name', 'last', 'phone']"
print "current_record:6"
print "datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR':
'100'}}}"
```

```python
  print "triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name',
'Matthew'), (2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last',
'Casares'), (3, 'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone',
9345879), (5, 'name', 'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name',
'Joaquin'), (6, 'last', 'Guadalupe'), (6, 'phone', 8845748)]"
  print "valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']"
  print


  print 'Customers:'
  print '|---------------------------------------------------'
  print '|  name              |  last              |  phone              |'
  print '|---------------------------------------------------'
  print '|  Phil              |  Cannata           |  7735647            |'
  print '|  Matthew           |  Clarkson          |  9875643            |'
  print '|  Joaquin           |  Casares           |  3451878            |'
  print '|  Joaquin           |  Joaquin           |  9345879            |'
  print '|  Joaquin           |  Joaquin           |  5123789            |'
  print '|  Joaquin           |  Guadalupe         |  8845748            |'
  print '|---------------------------------------------------'
```

```
  =======================================================
### Console Output:

0 1 2 3 4 5 6 7 8 9
Database:
Customers:[1, 2, 3, 4, 5, 6]
Customers_fields:['name', 'last', 'phone']
current_record:6
datatypes:{'Customers': {'phone': {'INT': -1}, 'last': {'VARCHAR': '15'}, 'name': {'VARCHAR': '100'}}}
triples:[(1, 'name', 'Phil'), (1, 'last', 'Cannata'), (1, 'phone', 7735647), (2, 'name', 'Matthew'), (
2, 'last', 'Clarkson'), (2, 'phone', 9875643), (3, 'name', 'Joaquin'), (3, 'last', 'Casares'), (3,
'phone', 3451878), (4, 'name', 'Joaquin'), (4, 'last', 'Joaquin'), (4, 'phone', 9345879), (5, 'name',
'Joaquin'), (5, 'last', 'Joaquin'), (5, 'phone', 5123789), (6, 'name', 'Joaquin'), (6, 'last',
'Guadalupe'), (6, 'phone', 8845748)]
  valid_datatypes:['VARCHAR', 'INT', 'CHAR', 'TEXT', 'BIT', 'BIGINT', 'REAL']

Customers:
  |---------------------------------------------------
  |  name              |  last              |  phone              |
  |---------------------------------------------------
  |  Phil              |  Cannata           |  7735647            |
  |  Matthew           |  Clarkson          |  9875643            |
  |  Joaquin           |  Casares           |  3451878            |
  |  Joaquin           |  Joaquin           |  9345879            |
  |  Joaquin           |  Joaquin           |  5123789            |
  |  Joaquin           |  Guadalupe         |  8845748            |
  |---------------------------------------------------
  =======================================================

 ####################
### Original Python2 File:
```

```
### update.py
####################

for i in range(10):
  print i,
print

sql:
  CREATE TABLE new_Customers (
    name VARCHAR(100) ,
    last VARCHAR(15),
    phone int,
    birthday int
  )
  INSERT INTO new_Customers VALUES ('Lake', 'Travis', 911, 1)
  INSERT INTO new_Customers VALUES ('Absente', 'Mee', 302740, 8)
  INSERT INTO new_Customers VALUES ('Burbple', 'Durple', 8837232, 7)
  INSERT INTO new_Customers VALUES ('Hes', 'ABob', 8675309, 2)
  INSERT INTO new_Customers VALUES ('See', 'Mee', 302740, 1)
  INSERT INTO new_Customers VALUES ('Jose', 'Nosey', 928223, 2)
  INSERT INTO new_Customers VALUES ('Miggh', 'Tyfine', 124967, 2)
  UPDATE new_Customers SET last='Bosey', name='Bob' WHERE last='Jose' AND name='Nosey'
  PRINT SELECT * FROM new_Customers
  UPDATE new_Customers SET last='Bosey', name='Bob' WHERE last='Jose'
  PRINT SELECT * FROM new_Customers
  UPDATE new_Customers SET last='Bosey', name='Bob', phone=9343
  PRINT SELECT * FROM new_Customers

 :sql


=====================================================
### Converted Python File:

for i in range(10):
  print i,
print


print 'new_Customers:'
print '|----------------------------------------------------'
print '|  name          |  last          |  phone          |  birthday       |'
print '|----------------------------------------------------'
print '|  Lake          |  Travis        |  911            |  1              |'
print '|  Absente       |  Mee           |  302740         |  8              |'
print '|  Burbple       |  Durple        |  8837232        |  7              |'
print '|  Hes           |  ABob          |  8675309        |  2              |'
print '|  See           |  Mee           |  302740         |  1              |'
print '|  Jose          |  Nosey         |  928223         |  2              |'
print '|  Miggh         |  Tyfine        |  124967         |  2              |'
print '|----------------------------------------------------'
print 'new_Customers:'
print '|----------------------------------------------------'
print '|  name          |  last          |  phone          |  birthday       |'
```

```
print '|-----------------------------------------------------------------------'
print '|   Lake       |   Travis      |   911        |   1           |'
print '|   Absente    |   Mee         |   302740     |   8           |'
print '|   Burbple    |   Durple      |   8837232    |   7           |'
print '|   Hes        |   ABob        |   8675309    |   2           |'
print '|   See        |   Mee         |   302740     |   1           |'
print '|   Jose       |   Nosey       |   928223     |   2           |'
print '|   Miggh      |   Tyfine      |   124967     |   2           |'
print '|-----------------------------------------------------------------------'
print 'new_Customers:'
print '|-----------------------------------------------------------------------'
print '|   name       |   last        |   phone      |   birthday    |'
print '|-----------------------------------------------------------------------'
print '|   Bob        |   Bosey       |   9343       |   1           |'
print '|   Bob        |   Bosey       |   9343       |   8           |'
print '|   Bob        |   Bosey       |   9343       |   7           |'
print '|   Bob        |   Bosey       |   9343       |   2           |'
print '|   Bob        |   Bosey       |   9343       |   1           |'
print '|   Bob        |   Bosey       |   9343       |   2           |'
print '|   Bob        |   Bosey       |   9343       |   2           |'
print '|-----------------------------------------------------------------------'
```

```
====================================================
### Console Output:

0 1 2 3 4 5 6 7 8 9
new_Customers:
|------------------------------------------------------
|   name       |   last       |   phone      |   birthday   |
|------------------------------------------------------
|   Lake       |   Travis     |   911        |   1          |
|   Absente    |   Mee        |   302740     |   8          |
|   Burbple    |   Durple     |   8837232    |   7          |
|   Hes        |   ABob       |   8675309    |   2          |
|   See        |   Mee        |   302740     |   1          |
|   Jose       |   Nosey      |   928223     |   2          |
|   Miggh      |   Tyfine     |   124967     |   2          |
|------------------------------------------------------
new_Customers:
|------------------------------------------------------
|   name       |   last       |   phone      |   birthday   |
|------------------------------------------------------
|   Lake       |   Travis     |   911        |   1          |
|   Absente    |   Mee        |   302740     |   8          |
|   Burbple    |   Durple     |   8837232    |   7          |
|   Hes        |   ABob       |   8675309    |   2          |
|   See        |   Mee        |   302740     |   1          |
|   Jose       |   Nosey      |   928223     |   2          |
|   Miggh      |   Tyfine     |   124967     |   2          |
|------------------------------------------------------
new_Customers:
```

name	last	phone	birthday
Bob	Bosey	9343	1
Bob	Bosey	9343	8
Bob	Bosey	9343	7
Bob	Bosey	9343	2
Bob	Bosey	9343	1
Bob	Bosey	9343	2
Bob	Bosey	9343	2