

SET A

Q. Write user-defined functions to perform read and write operations onto a book.csv file having fields bookid, bookname, subject and price. Call these functions in main .

SOURCE CODE :

```
import csv

def readf():
    f=open("book.csv")
    print("[ BOOK ID | BOOK NAME | SUBJECT | PRICE ]")
    for lines in f:
        print(lines,end="")
    f.close()

def writef():
    n=int(input("NO. OF ROWS :"))
    f=open("book.csv","w",newline="")
    while n>0:
        a=str(input("ENTER BOOK ID :"))
        b=str(input("ENTER BOOK NAME :"))
        c=str(input("ENTER SUBJECT :"))
        d=str(input("ENTER PRICE :"))
        fields=[a,b,c,d]
        csv.writer(f).writerow(fields)
        n-=1
    f.close()

def main():
    writef()
    readf()
```

```
if __name__=='__main__':  
    main()
```

OUTPUT :

NO. OF ROWS :3

ENTER BOOK ID :1

ENTER BOOK NAME :ANOTHER VOL.1

ENTER SUBJECT :OTHER

ENTER PRICE :1200

ENTER BOOK ID :2

ENTER BOOK NAME :ATTACK ON TITAN

ENTER SUBJECT :OTHER

ENTER PRICE :1203

ENTER BOOK ID :3

ENTER BOOK NAME :DEATH NOTER ALL-IN-ONE

ENTER SUBJECT :OTHER

ENTER PRICE :2500

[BOOK ID | BOOK NAME | SUBJECT | PRICE]

1,ANOTHER VOL.1,OTHER,1200

2,ATTACK ON TITAN,OTHER,1203

3,DEATH NOTER ALL-IN-ONE,OTHER,2500

Q.Create a table company under the database office. Fields in the table are id,name, and phone_no of companies. Create another table company_profit under the same database. Fields in the table are id,profit and year .Enter 10 records in each table.

(a) Display id name profit and year of each company .

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```
MySQL 8.0 Command Line Client
mysql> select company.id,name,profit,year from company,company_profit where company.id=company_profit.id;
+----+-----+-----+-----+
| id | name  | profit | year |
+----+-----+-----+-----+
| 1  | a     | 12     | 1234 |
| 2  | beta  | 100    | 1222 |
| 3  | bta   | 0.11   | 1222 |
| 4  | chuia | 120000 | 2020 |
| 5  | rano  | 120000 | 2020 |
| 6  | monthy | 120000 | 2020 |
| 7  | geeta | 123    | 2000 |
| 8  | babita | 0      | 2000 |
| 9  | mita  | 0      | 2000 |
| 10 | hola  | 0      | 2000 |
+----+-----+-----+-----+
10 rows in set (0.05 sec)

mysql>
```

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(b) Change phone no of one company.

Select MySQL 8.0 Command Line Client

```
mysql> update company set phone_no=22222222 where id=10;  
Query OK, 1 row affected (0.19 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from company;
```

id	name	phone_no
1	a	12341234
2	beta	12341234
3	bta	12341234
4	chuia	12341234
5	rano	12341334
6	monthy	12341324
7	geeta	12341124
8	babita	12341124
9	mita	12341004
10	hola	22222222

```
10 rows in set (0.00 sec)
```

```
mysql> update company set phone_no=22222442 where id=10;  
Query OK, 1 row affected (0.14 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from company;
```

id	name	phone_no
1	a	12341234
2	beta	12341234
3	bta	12341234
4	chuia	12341234
5	rano	12341334
6	monthy	12341324
7	geeta	12341124
8	babita	12341124
9	mita	12341004
10	hola	22222442

```
10 rows in set (0.00 sec)
```

```
mysql>
```



(c) Add one more field as city in table company.

```
MySQL Select MySQL 8.0 Command Line Client
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> update company set phone_no=22222442 where id=10;
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from company;
+-----+-----+-----+
| id  | name  | phone_no |
+-----+-----+-----+
| 1   | a     | 12341234 |
| 2   | beta  | 12341234 |
| 3   | bta   | 12341234 |
| 4   | chuia | 12341234 |
| 5   | rano  | 12341334 |
| 6   | monthy| 12341324 |
| 7   | geeta | 12341124 |
| 8   | babita| 12341124 |
| 9   | mita  | 12341004 |
| 10  | hola  | 22222442 |
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> alter table company add city varchar(30);
Query OK, 0 rows affected (2.46 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from company;
+-----+-----+-----+-----+
| id  | name  | phone_no | city |
+-----+-----+-----+-----+
| 1   | a     | 12341234 | NULL |
| 2   | beta  | 12341234 | NULL |
| 3   | bta   | 12341234 | NULL |
| 4   | chuia | 12341234 | NULL |
| 5   | rano  | 12341334 | NULL |
| 6   | monthy| 12341324 | NULL |
| 7   | geeta | 12341124 | NULL |
| 8   | babita| 12341124 | NULL |
| 9   | mita  | 12341004 | NULL |
| 10  | hola  | 22222442 | NULL |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

(d) Enter data in this field for all records.

```

mysql> update company set city='delhi' where id =8;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

mysql> update company set city='noida' where id =9;
Query OK, 1 row affected (0.12 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update company set city='delhi' where id =10;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

mysql> select * from company;
+----+-----+-----+-----+
| id | name | phone_no | city |
+----+-----+-----+-----+
| 1 | a | 12341234 | noida |
| 2 | beta | 12341234 | delhi |
| 3 | bta | 12341234 | delhi |
| 4 | chula | 12341234 | delhi |
| 5 | rano | 12341334 | delhi |
| 6 | monthy | 12341324 | delhi |
| 7 | geeta | 12341124 | delhi |
| 8 | babita | 12341124 | delhi |
| 9 | mita | 12341004 | noida |
| 10 | hola | 22224442 | delhi |
+----+-----+-----+-----+
10 rows in set (0.00 sec)

```

(e) Save data permanently in the tables.

```

mysql> commit ;
Query OK, 0 rows affected (0.01 sec)

mysql>

```

Q. Write a program to display all the companies name with their phone number which are situated in Delhi from table company under database office.

SOURCE CODE :

```

import mysql.connector

connector =mysql.connector.connect(host='localhost',user='root',passwd='IIT-JEE',database='office')

if connector.is_connected():

    print("Python is successfully Connected")

cursor=connector.cursor()

cursor.execute("select name,phone_no from company where city='delhi' ")

data=cursor.fetchall()

print("[ COMPANY NAME\tPHONE NO.]")

for i in data:

    for j in i:

        print(j,end="\t\t")

    print()

```

OUTPUT :

Python is successfully Connected

[COMPANY NAME PHONE NO.]

beta 12341234

bta 12341234

chuia 12341234

rano 12341334

monthly 12341324

geeta 12341124

babita 12341124

hola 22222442