(Q) For the database connection, use the following connection string variables:
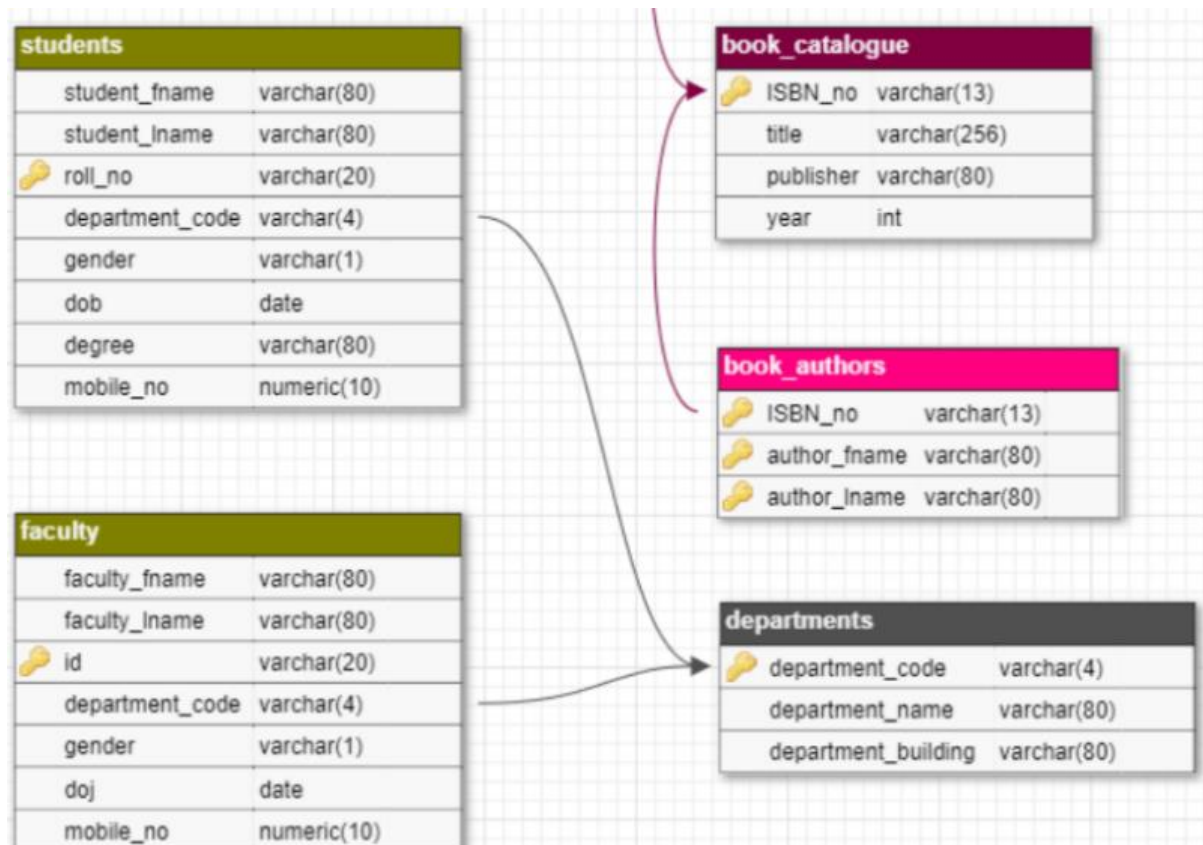
```
database = sys.argv[1]        //name of the database is obtained from the command line argument
user = os.environ.get('PGUSER')
password = os.environ.get('PGPASSWORD')
host = os.environ.get('PGHOST')
port = os.environ.get('PGPORT')
```

students	
student_fname	varchar(80)
student_lname	varchar(80)
🔑 roll_no	varchar(20)
department_code	varchar(4)
gender	varchar(1)
dob	date
degree	varchar(80)
mobile_no	numeric(10)

book_catalogue	
🔑 ISBN_no	varchar(13)
title	varchar(256)
publisher	varchar(80)
year	int

book_authors	
🔑 ISBN_no	varchar(13)
🔑 author_fname	varchar(80)
🔑 author_lname	varchar(80)

faculty	
faculty_fname	varchar(80)
faculty_lname	varchar(80)
🔑 id	varchar(20)
department_code	varchar(4)
gender	varchar(1)
doj	date
mobile_no	numeric(10)

departments	
🔑 department_code	varchar(4)
department_name	varchar(80)
department_building	varchar(80)

Problem Statement: Write a Python program to print the student's first name, the corresponding department name and the respective year of date of birth, if the year is even then print "Even" or else "Odd".
Student's first name is given in a file named 'name.txt' resides in the same folder as python program file.

- The output of the python program is only student's first name, the corresponding department name and year of date of birth, if the

  year is even then "Even" or else "Odd".

- For example, 'Suman' and 'Computer Science' is the name and department name of the student. '2002' is the year he was born in.

  '2002' is even. Then, the final output will be **Suman,Computer Science,Even** only. Note: No spaces.

- For example, 'Vinod' and 'Electrical Engineering' is the name and department name of the student. '2003' is the year he was born in.

  '2003' is not even. Then, the final output will be **Vinod,Electrical Engineering,Odd** only. Note: No spaces.

➔ import psycopg2,os,sys,datetime

database = sys.argv[1]   ##name of the database is obtained from the command line argument

user = os.environ.get('PGUSER')

```python
password = os.environ.get('PGPASSWORD')


host = os.environ.get('PGHOST')


port = os.environ.get('PGPORT')
f=open('name.txt','r')
name=f.read()
conn=None
try:
    conn=psycopg2.connect(database=database,user=user,password=password,host=host,port=port)
    cur=conn.cursor()
    cur.execute('''select s.student_fname,d.department_name,s.dob from students s,departments d where s.department_code=d.department_code and s.student_fname=%s''',(name,))
    result=cur.fetchall()
    for i in result:
        a=i[0]
        b=i[1]
        c=str(i[2])[:4]
        if(int(c)%2==0):
            print(a+','+b','+'Even')
        if(int(c)%2==1):
            print(a+','+b+','+'Odd')
    cur.close()
except(exception,psycopg2.DatabaseError) as error:
    print(error)
finally:
    if conn is not None:
        conn.close()
```