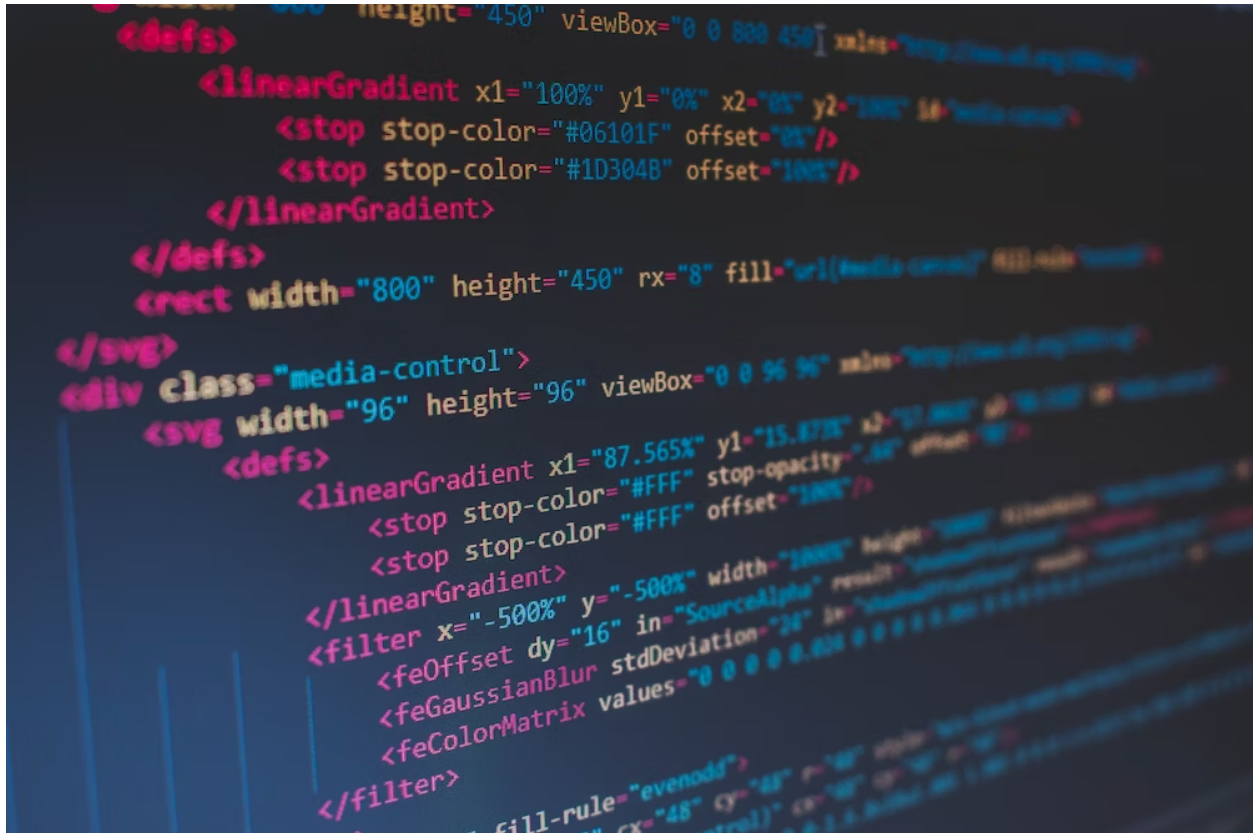


# COMPUTER LAB REPORT



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# SYNOPSIS

**FLIGHT MANAGEMENT SYSTEM** , is an application that helps to manage flights and to handle all flight related activities whether online or offline.

The flight manager finds it difficult to handle a large volume of flight records when it is present in an MS excel application stored in tabular data having a large amount of data.

The proposed system is designed with python IDLE as front end and MYSQL as back end, which will handle all the required operations automatically in which front end applications handles at the execution level and back-end application handles at the storage level.

**Operations executed:**

- Inserting a Flight Record with the attributes like , flight ID, flight Name, from, to and
- Date of departure.
- Bill Amount
- Removing an existing patient Record.
- Update the doctor.
- Updating the patient details.
- Display a flight record based on the name.
- Display all the flight records.

- **The new system will allow the flight manager to handle large volume of data in effective**
- **manner and to generate the different types of reports for making analysis and decisions.**
- **It will deny any duplication of records in the system so that the system should be in a consistent state.**

**The new system will allow the flight manager to handle large volumes of data in an effective manner and to generate the different types of reports for making analysis and decisions.**

# ABOUT PYTHON

Python was created by [Guido van Rossum](#), and first released on February 20, 1991. While you may know the python as a large snake, the name of the Python programming language comes from an old BBC television comedy sketch series called *Monty Python's Flying Circus*.

Python is omnipresent, and people use numerous Python-powered devices on a daily basis, whether they realize it or not. There are billions of lines of code written in Python, which means almost unlimited opportunities for code reuse and learning from well-crafted examples. What's more, there is a large and very active Python community, always happy to help.

There are also a couple of factors that make Python great for learning:

- It is easy to learn – the time needed to learn Python is shorter than for many other languages; this means that it's possible to start the actual programming faster;
- It is easy to use for writing new software – it's often possible to write code faster when using Python;
- It is easy to obtain, install and deploy – Python is free, open and multiplatform; not all languages can boast that.

**Programming skills prepare you for careers in almost any industry, and are required if you want to continue to more advanced and higher-paying software development and engineering roles. Python is the programming language that opens more doors than any other. With a solid knowledge of Python, you can work in a multitude of jobs and a multitude of industries. And the more you understand Python, the more you can do in the 21st Century. Even if you need it**

# ABOUT MYSQL

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network. In particular, a relational database is a digital store collecting data and organizing it according to the relational model. In this model, tables consist of rows and columns, and relationships between data elements all follow a strict logical structure. An RDBMS is simply the set of software tools used to actually implement, manage, and query such a database.

MySQL is integral to many of the most popular software stacks for building and maintaining everything from customer-facing web applications to powerful, [data-driven B2B services](#). Its open-source nature, stability, and rich feature set, paired with ongoing development and support from Oracle, have meant that internet-critical organizations such as Facebook, Flickr, Twitter, Wikipedia, and YouTube [all employ MySQL backends](#).

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# SYSTEM REQUIREMENTS

## **HARDWARE REQUIREMENTS:**

**PROCESSOR:** Intel(R) Core™ i5-250M CPU @ 2.50 GHz

**RAM:** 4.00 GB

**MONITOR:** Dell N5110-PC

**OPERATING SYSTEM** - 64-bit operating system

## **SOFTWARE REQUIREMENT:**

**FRONT END:** python 3.7.4 IDLE

**BACK END:** MySql 5.5 command client

## SOURCE CODE

```
import mysql.connector as sql

ch='y'

while ch=='y':

    print('Options are:')

    print('1. Add')

    print('2. Delete')

    print('3. Update')

    print('4. Search')

    print('5. Display the table')

    ch=int(input('Enter your choice:'))

    if ch==1:

mydb=sql.connect(host='localhost',user='root',passwd='Mysql',database='mk12a')

    c=mydb.cursor()

    n=int(input('Enter Flight ID:'))

    name=input('Enter Flight Name:')

    f_from=input('Enter Departure location:')

    f_to=input('Enter Arrival location:')

    date=input('Enter Date:')

    price=float(input('Enter Price:'))

    c.execute("insert into flights
values({},'{}','{}','{}','{}',{})".format(n,name,f_from,f_to,date,price))

    mydb.commit()

    c.close()
```

```

        print('Record is added')
elif ch==2:

mydb=sql.connect(host='localhost',user='root',passwd='Mysql',database='mk12a')
    c=mydb.cursor()
    n=int(input('Enter Flight ID:'))
    c.execute('delete from flights where flight_id={}'.format(n))
    mydb.commit()
    c.close()
        print('Record is deleted')
elif ch==3:

mydb=sql.connect(host='localhost',user='root',passwd='Mysql',database='mk12a')
    c=mydb.cursor()
    n=int(input('Enter Flight ID:'))
    name=input('Enter Flight Name:')
    c.execute("update flights set flight_name='{}' where
flight_id={}".format(name,n))
    mydb.commit()
    c.close()
elif ch==4:

mydb=sql.connect(host='localhost',user='root',passwd='Mysql',database='mk12a')
    c=mydb.cursor()
    n=int(input('Enter Flight ID:'))
    c.execute('select * from flights where flight_id={}'.format(n))

```

```

    rec=c.fetchall()
        for i in rec:
            print(i)
    c.close()
elif ch==5:

mydb=sql.connect(host='localhost',user='root',passwd='Mysql',database='mk12a')
    c=mydb.cursor()
    c.execute('select * from flights')
    rec=c.fetchall()
        for i in rec:
            print(i)
    c.close()
else:
    print('Wrong Choice')
ch=input('Do you want to continue y/n:')

```

# ORIGINAL TABLE:

```
mysql> select * from flights;
+-----+-----+-----+-----+-----+-----+
| flight_id | flight_name | f_from | f_to | date_of_departure | price |
+-----+-----+-----+-----+-----+-----+
| 101 | Salam Air | Muscat | Dubai | 2023-10-14 | 8375.00 |
| 102 | Etihad Airways | Dubai | Muscat | 2023-10-24 | 4225.00 |
| 103 | Air India | Muscat | Mumbai | 2023-05-17 | 7200.00 |
| 104 | Oman Air | Muscat | Delhi | 2023-07-05 | 26000.00 |
| 105 | Delta | Mumbai | New York | 2023-06-30 | 40000.00 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.04 sec)

mysql> |
```

## OUTPUT WITHOUT CHOICE:

```
== RESTART: C:\Users\mkazi\AppData\Local\Programs\Python\Python311\project.py ==
Options are:
1. Add
2. Delete
3. Update
4. Search
5. Display the table
Enter your choice:|
```

## CODE FOR INSERT:

Options are:

1. Add
2. Delete
3. Update
4. Search
5. Display the table

Enter your choice:1

Enter Flight ID:106

Enter Flight Name:Vistara

Enter Departure location:Kashmir

Enter Arrival location:Mumbai

Enter Date:2023-01-26

Enter Price:8295.00

Record is added

Do you want to continue y/n:

## OUTPUT:

```
mysql> select * from flights;
+-----+-----+-----+-----+-----+-----+
| flight_id | flight_name | f_from | f_to | date_of_departure | price |
+-----+-----+-----+-----+-----+-----+
| 101 | Salam Air | Muscat | Dubai | 2023-10-14 | 8375.00 |
| 102 | Etihad Airways | Dubai | Muscat | 2023-10-24 | 4225.00 |
| 103 | Air India | Muscat | Mumbai | 2023-05-17 | 7200.00 |
| 104 | Oman Air | Muscat | Delhi | 2023-07-05 | 26000.00 |
| 105 | Delta | Mumbai | New York | 2023-06-30 | 40000.00 |
| 106 | Vistara | Kashmir | Mumbai | 2023-01-26 | 8295.00 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> |
```

## CODE FOR DELETE:

Options are:

1. Add
2. Delete
3. Update
4. Search
5. Display the table

Enter your choice:2

Enter Flight ID:106

Record is deleted

Do you want to continue y/n:|

## OUTPUT:



```
mysql> select * from flights;
+-----+-----+-----+-----+-----+-----+
| flight_id | flight_name | f_from | f_to | date_of_departure | price |
+-----+-----+-----+-----+-----+-----+
| 101 | Salam Air | Muscat | Dubai | 2023-10-14 | 8375.00 |
| 102 | Etihad Airways | Dubai | Muscat | 2023-10-24 | 4225.00 |
| 103 | Air India | Muscat | Mumbai | 2023-05-17 | 7200.00 |
| 104 | Oman Air | Muscat | Delhi | 2023-07-05 | 26000.00 |
| 105 | Delta | Mumbai | New York | 2023-06-30 | 40000.00 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

## CODE FOR UPDATE:

Options are:

1. Add
2. Delete
3. Update
4. Search
5. Display the table

Enter your choice:3

Enter Flight ID:105

Enter Flight Name:KLM

Do you want to continue y/n:

## OUTPUT:

```
mysql> select * from flights;
+-----+-----+-----+-----+-----+-----+
| flight_id | flight_name | f_from | f_to | date_of_departure | price |
+-----+-----+-----+-----+-----+-----+
| 101 | Salam Air | Muscat | Dubai | 2023-10-14 | 8375.00 |
| 102 | Etihad Airways | Dubai | Muscat | 2023-10-24 | 4225.00 |
| 103 | Air India | Muscat | Mumbai | 2023-05-17 | 7200.00 |
| 104 | Oman Air | Muscat | Delhi | 2023-07-05 | 26000.00 |
| 105 | KLM | Mumbai | New York | 2023-06-30 | 40000.00 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

## CODE FOR SEARCH:

Options are:

1. Add
2. Delete
3. Update
4. Search
5. Display the table

Enter your choice:4

Enter Flight ID:104

(104, 'Oman Air', 'Muscat', 'Delhi', datetime.date(2023, 7, 5), 26000.0)

Do you want to continue y/n:

OUTPUT



## CODE FOR DISPLAYING THE TABLE:

Options are:

1. Add
2. Delete
3. Update
4. Search
5. Display the table

Enter your choice:5

OUTPUT



(101,	'Salam Air',	'Muscat',	'Dubai',	datetime.date(2023, 10, 14),	8375.0)
(102,	'Etihad Airways',	'Dubai',	'Muscat',	datetime.date(2023, 10, 24),	4225.0)
(103,	'Air India',	'Muscat',	'Mumbai',	datetime.date(2023, 5, 17),	7200.0)
(104,	'Oman Air',	'Muscat',	'Delhi',	datetime.date(2023, 7, 5),	26000.0)
(105,	'KLM',	'Mumbai',	'New York',	datetime.date(2023, 6, 30),	40000.0)

Do you want to continue y/n:

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