

### Inserting New Employee:

The server output is on the right and the client output is on the left

```
xmay@merlin: RecordKeepingSystem $ ./client
Server queue obtained with ID 65536
Client queue obtained with ID 98305
-----
1 | Insert New Record
2 | Check Name
3 | Check Department
4 | Check Salary
5 | Check Employee Number
6 | Check All In Department
7 | Delete
Please enter a number to select a command: 1

Command 1 | Insert New Record
Enter an EMPLOYEE NAME:
Person1
Enter a DEPARTMENT NAME:
Dept1
Enter an EMPLOYEE ID
1
Enter a SALARY
1000
Pushing Command to Queue
Command sent successfully...
Attempting to send associated record...
Record sent successfully.

gcc -Wall -c record.c
gcc -o client admin.o record.o
gcc -Wall -c keeper.c
gcc -o server keeper.o record.o
xmay@merlin: RecordKeepingSystem $ ./server
Server queue created with ID 65536
Admin queue created with ID 98305
Listening For Server Commands
Recieved command 1
Listening for Associated Record
Recieved Record For Command 1
Printing Employee Records
-----
Name:          Person1
Department:    Dept1
Employee ID:   1
Salary ($):    1000
-----
Listening For Server Commands
```

For the following examples this is the state of the Employee Records

```
Printing Employee Records
-----
Name:          Person1
Department:    Dept1
Employee ID:   1
Salary ($):    1000
-----
Name:          Person2
Department:    Dept2
Employee ID:   2
Salary ($):    2000
-----
Name:          Person3
Department:    Dept1
Employee ID:   3
Salary ($):    3000
-----
```

### Checking Name of Employee ID 2

```
-----  
1 | Insert New Record  
2 | Check Name  
3 | Check Department  
4 | Check Salary  
5 | Check Employee Number  
6 | Check All In Department  
7 | Delete  
Please enter a number to select a command: 2  
  
Command 2 | Check_name  
Enter an EMPLOYEE ID  
2  
Pushing Command to Queue  
Command sent successfully...  
Attempting to send associated record...  
Record sent successfully.  
  
-----  
Server found 1 matching record(s):  
-----  
Employee Name: Person2  
-----
```

### Checking Department of Employee ID3

-----  
1 | Insert New Record

2 | Check Name

3 | Check Department

4 | Check Salary

5 | Check Employee Number

6 | Check All In Department

7 | Delete

Please enter a number to select a command: 3

Command 3 | Check\_department

Enter an EMPLOYEE ID

3

Pushing Command to Queue

Command sent successfully...

Attempting to send associated record...

Record sent successfully.

-----  
Server found 1 matching record(s):

-----  
Employee Department: Dept1  
-----

### Checking Salary of Employee ID 1

-----  
1 | Insert New Record

2 | Check Name

3 | Check Department

4 | Check Salary

5 | Check Employee Number

6 | Check All In Department

7 | Delete

Please enter a number to select a command: 4

Command 4 | Check\_salary

Enter an EMPLOYEE ID

1

Pushing Command to Queue

Command sent successfully...

Attempting to send associated record...

Record sent successfully.

-----  
Server found 1 matching record(s):  
-----

Employee Salary: 1000  
-----

### Checking Employee Number of Person2

```
-----
1 | Insert New Record
2 | Check Name
3 | Check Department
4 | Check Salary
5 | Check Employee Number
6 | Check All In Department
7 | Delete
Please enter a number to select a command: 5

Command 5 | Check_Employee_Name
Enter an EMPLOYEE NAME:
Person2
Pushing Command to Queue
Command sent successfully...
Attempting to send associated record...
Record sent successfully.

-----
Server found 1 matching record(s):
-----
Employee   Number(s):  2
-----
```

### Check All Employees in Dept1

```
1 | Insert New Record
2 | Check Name
3 | Check Department
4 | Check Salary
5 | Check Employee Number
6 | Check All In Department
7 | Delete
Please enter a number to select a command: 6

Command 6 | Check
Enter a DEPARTMENT NAME:
Dept1
Pushing Command to Queue
Command sent successfully...
Attempting to send associated record...
Record sent successfully.

-----
Server found 2 matching record(s):
-----
Employee  Number(s):  1  3
-----
```



### Delete Person1 from Employees

```
1 | Insert New Record
2 | Check Name
3 | Check Department
4 | Check Salary
5 | Check Employee Number
6 | Check All In Department
7 | Delete
Please enter a number to select a command: 7

Command 7 | Delete Record
Enter an EMPLOYEE ID
1
Pushing Command to Queue
Command sent successfully...
Attempting to send associated record...
Record sent successfully.
-----
```

### Server output

```
Listening For Server Commands
Recieved command 7
Listening for Associated Record
Recieved Record For Command 7
Printing Employee Records
-----
Name: Person2
Department: Dept2
Employee ID: 2
Salary ($): 2000
-----
Name: Person3
Department: Dept1
Employee ID: 3
Salary ($): 3000
-----
Listening For Server Commands
```

### A FAILED REQUEST

```
-----  
1 | Insert New Record  
2 | Check Name  
3 | Check Department  
4 | Check Salary  
5 | Check Employee Number  
6 | Check All In Department  
7 | Delete  
Please enter a number to select a command: 2  
  
Command 2 | Check_name  
Enter an EMPLOYEE ID  
4  
Pushing Command to Queue  
Command sent successfully...  
Attempting to send associated record...  
Record sent successfully.  
  
-----  
Server found 0 matching record(s):  
-----  
Employee Name:  
-----
```

Simply says that there are no records to be displayed