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DBMS LAB – 10

Q1(i)

1.Create a xquery to list the salary > 30000

doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q1.xml")/EmployeeDetails/Employee[Salary>30000]

1

Soma

SDE

8

CSE

1

1000000

2

Sanjiv

Devops

7

CSE

1

1500000

3

Sri

Trader

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1

DS

2

10000000

4

Mano

Manager

13

Management

3

20000000

5

Nitin

AppDev

8

Research

1

1000000

2.Get Employee numbers of employees whose last name starts with "S".

```
for $x in
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q1.xml")/
EmployeeDetails/Employee[starts-with(EName,"S")]/EmpNo

return $x
```

123

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3.Get names of employees in the "Research" department.

```
for $x in
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q1.xml")/
EmployeeDetails/Employee

where $x/Dept = "Research"

return $x
```

```
5

Nitin

AppDev

8

Research

1

1000000
```

4.Get employees who are managers work more than 8 hours

```
for $x in
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q1.xml")/
EmployeeDetails/Employee

where $x/Job="Manager" and $x/WorkingHours>8

return $x
```

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5.Display the salary in highest to lowest.

```
for $x in
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q1.xml")/
EmployeeDetails/Employee

order by $x/Salary

return $x
```

```
1

Soma

SDE

8

CSE

1

1000000

5

Nitin

Manager

8

Research

1

1000000

3

Sri

Trader
```

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1

DS

2

10000000

2

Sanjiv

Devops

7

CSE

1

1500000

4

Mano

Manager

13

Management

3

20000000

6.Display the Employee name in Alphabetical order.

```
for $x in
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q1.xml")/
EmployeeDetails/Employee/EName

order by $x

return $x
```

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ManoNitinSanjivSomaSri

Q1(ii)

1. Create a xquery to list the Marks > 75

```
for $x in
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q2.xml")/
StudentDetails/Students

where $x/Marks>75

return $x
```

1

Soma

SE

CSE

1

100

13

2

Sanjiv

Devops

CSE

1

99

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12

3

Sri

Networks

ECE

2

98

43

4

Mano

Analog

ICE

13

20

79

5

Nitin

Electronics

EEE

1

10

99

2. Find the Avg Mark of a Student.

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```
for $x in
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q2.xml")/
StudentDetails/Students[STUID eq "1"]

return avg($x/Marks)
```

56.5

3. Find the Total Marks of a Student.

```
sum(doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q2.x
ml")/StudentDetails/Students[STUID eq "2"]/Marks)
```

111

4. Find the Min and Max Mark of a student in a subject.

```
min(doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q2.x
ml")/StudentDetails/Students[STUID eq "3"]/Marks),

max(doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q2.x
ml")/StudentDetails/Students[STUID eq "3"]/Marks)
```

43 98

Q2(i)

1. Create a xquery to list the price of journey < 5000

```
doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q3.xml")/
FlightDetails/Flight[Price<5000]
```

5

Corona

Nitin

Trichy

Hosur

21.10.2023

6:45

4000

2. Create a xquery to find the departs Time of the particular flight on a 4.12.2020 from a particular city.

doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q3.xml")/FlightDetails/Flight[Date eq 21.10.2023 and From eq Trichy]/DepartTime

5

Corona

Nitin

Trichy

Hosur

21.10.2023

6:45

9:00

4000

3. Create a xquery to find the Flight Names handled by a particular Pilot.

doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q3.xml")/FlightDetails/Flight[PilotName eq "Soma"]

1

Lufthansa

Soma

Chennai

Trichy

2020-12-04

3:00

6:00

15000

4. Create a xquery to find out number of Flight journeys of a particular flight on 30.11.2020

count(doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q3.xml")/FlightDetails/Flight[Date eq "30.11.2020"])

0

5. Create a xquery to find Arrival Time of a particular flight on 25.11.2020 from a particular city.

doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q3.xml")/FlightDetails/Flight[Date eq 21.10.2023 and From eq Trichy]/ArrivesTime

5

Corona

Nitin

Trichy

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Hosur

21.10.2023

6:45

9:00

4000

Q2(ii)

1. Create a xquery to list the employees in Dept =’Human Resources’.

doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q4.xml")/EmployeeDetails/Employee[Dept eq "HumanResouces"]

4

Mano

Manager

4

HumanResouces

13

20000000

2. Create a xquery to find the Employee who works in particular project and salary > 50000.

doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q4.xml")/EmployeeDetails/Employee[Project eq "3" and Salary>50000]

3

Sri

Trader

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3

DS

2

10000000

3. Create a xquery to find the Total salary of Employees in a particular department.

```
sum(doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q4.xml")/EmployeeDetails/Employee[Dept eq "CSE"]/Salary)
```

33500000

4. Create a xquery to find the number of Employees working in a department.

```
count(doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q4.xml")/EmployeeDetails/Employee[Dept eq "CSE"])
```

2

5. Create a xquery to find the highest salary of a manager in particular department.

```
max(doc("/home/magic_kite/Desktop/NITT/1_semester5/CSLR51_DBMS_lab/lab10/q4.xml")/EmployeeDetails/Employee[Dept eq "HumanResouces" and Job eq "Manager"]/Salary)
```

20000000