

# DBMS Lab10

-V Venkataraman

## Q1

### -- CONNECTION 1

```
CREATE DATABASE LAB10;
```

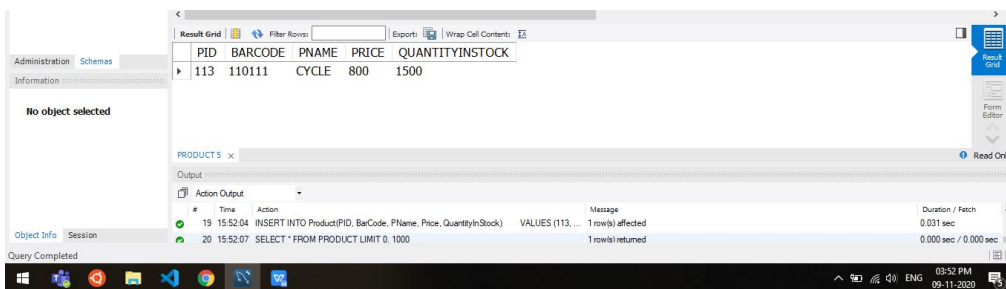
```
USE LAB10;
```

```
CREATE TABLE PRODUCT (  
    PID int(11) NOT NULL,  
    BARCODE int(11) NOT NULL,  
    PNAME varchar(255) NOT NULL,  
    PRICE int(11) NOT NULL,  
    QUANTITYINSTOCK int(11) NOT NULL  
);
```

```
SET autocommit = OFF;
```

```
INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)  
VALUES (113, 110111, 'CYCLE', 800, 1500);
```

```
SELECT * FROM PRODUCT;
```



PID	BARCODE	PNAME	PRICE	QUANTITYINSTOCK
113	110111	CYCLE	800	1500

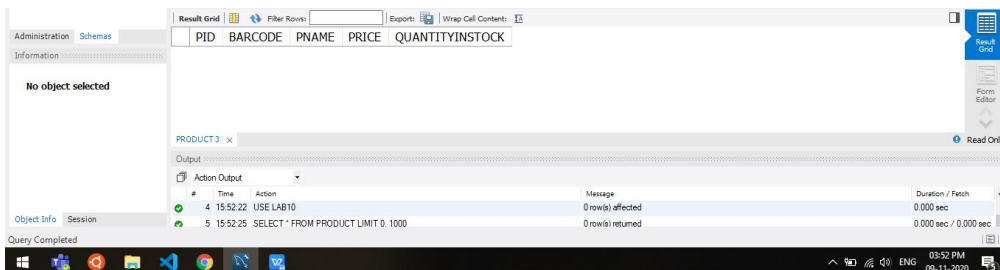
  

#	Time	Action	Message	Duration / Fetch
19	15:52:04	INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)	VALUES (113, ... 1 row(s) affected	0.031 sec
20	15:52:07	SELECT * FROM PRODUCT LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

### -- CONNECTION 2

```
USE LAB10;
```

```
SELECT * FROM PRODUCT;
```



PID	BARCODE	PNAME	PRICE	QUANTITYINSTOCK
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#	Time	Action	Message	Duration / Fetch
4	15:52:22	USE LAB10	0 row(s) affected	0.000 sec
5	15:52:25	SELECT * FROM PRODUCT LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

## -- CONNECTION 1

CREATE DATABASE LAB10;

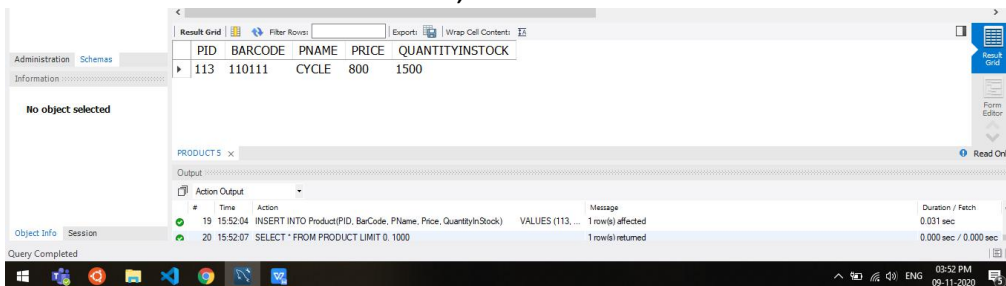
USE LAB10;

```
CREATE TABLE PRODUCT (  
    PID int(11) NOT NULL,  
    BARCODE int(11) NOT NULL,  
    PNAME varchar(255) NOT NULL,  
    PRICE int(11) NOT NULL,  
    QUANTITYINSTOCK int(11) NOT NULL  
);
```

SET autocommit = ON;

```
INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)  
VALUES (113, 110111, 'CYCLE', 800, 1500);
```

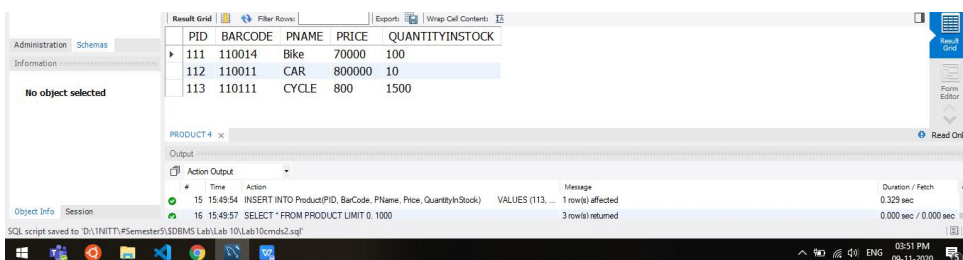
SELECT \* FROM PRODUCT;



## -- CONNECTION 2

USE LAB10;

SELECT \* FROM PRODUCT;



## Q2

USE LAB10;

```
CREATE TABLE PRODUCT (  
    PID int(11) NOT NULL,  
    BARCODE int(11) NOT NULL,  
    PNAME varchar(255) NOT NULL,  
    PRICE int(11) NOT NULL,  
    QUANTITYINSTOCK int(11) NOT NULL  
);  
SET autocommit = OFF;
```

START TRANSACTION;

```
INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)  
VALUES (111, 110014, 'Bike', 70000, 100);
```

SELECT \* FROM PRODUCT;

Result Grid

PID	BARCODE	PNAME	PRICE	QUANTITYINSTOCK
111	110014	Bike	70000	100

PRODUCT 3

Output

#	Time	Action	Message	Duration / Fetch
30	15:55:05	INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)	VALUES (111, ...	1 row(s) affected 0.016 sec
31	15:55:09	SELECT * FROM PRODUCT LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Query Completed

SAVEPOINT my\_savepoint;

```
INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)  
VALUES (001, 110010, 'CYCLE', 700, 1500);
```

SELECT \* FROM PRODUCT;

Result Grid

PID	BARCODE	PNAME	PRICE	QUANTITYINSTOCK
111	110014	Bike	70000	100
1	110010	CYCLE	700	1500

PRODUCT 4

Output

#	Time	Action	Message	Duration / Fetch
33	15:56:42	INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)	VALUES (001, ...	1 row(s) affected 0.000 sec
34	15:56:45	SELECT * FROM PRODUCT LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

ROLLBACK TO SAVEPOINT my\_savepoint;

```
INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock)
VALUES (101, 110013, 'CAR', 800000, 10);
```

```
SELECT * FROM PRODUCT;
```

The screenshot shows a database management interface with a sidebar on the left containing 'Administration' and 'Schemas' tabs. The main area is divided into a 'Result Grid' and an 'Output' pane. The 'Result Grid' displays the following data:

PID	BARCODE	PNAME	PRICE	QUANTITYINSTOCK
111	110014	Bike	70000	100
101	110013	CAR	800000	10

The 'Output' pane shows the execution log for two queries:

#	Time	Action	Message	Duration / Fetch
36	15:57:01	INSERT INTO Product(PID, BarCode, PName, Price, QuantityInStock) VALUES (101, ...	1 row(s) affected	0.046 sec
37	15:57:03	SELECT * FROM PRODUCT LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

The status bar at the bottom indicates 'Query Completed' and the system time is 03:57 PM on 09-11-2020.

```
COMMIT;
```

```
SELECT * FROM PRODUCT;
```

The screenshot shows a database management interface with a sidebar on the left containing 'Administration' and 'Schemas' tabs. The main area is divided into a 'Result Grid' and an 'Output' pane. The 'Result Grid' displays the following data:

PID	BARCODE	PNAME	PRICE	QUANTITYINSTOCK
111	110014	Bike	70000	100
101	110013	CAR	800000	10

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#	Time	Action	Message	Duration / Fetch
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37	15:57:03	SELECT * FROM PRODUCT LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

The status bar at the bottom indicates 'Query Completed' and the system time is 03:57 PM on 09-11-2020.

## Q3

### XML

```
<?xml version="1.0" encoding="UTF-8"?>
<EmployeeDetails>
  <Employee>
    <EmpNo>1</EmpNo>
    <ENAME>John</ENAME>
    <Job>HOD</Job>
    <Dept>Mech</Dept>
    <DeptNo>4</DeptNo>
    <Salary>10000</Salary>
  </Employee>
  <Employee>
    <EmpNo>2</EmpNo>
    <ENAME>Samuel</ENAME>
    <Job>HOD</Job>
    <Dept>Cse</Dept>
    <DeptNo>1</DeptNo>
    <Salary>20000</Salary>
  </Employee>
  <Employee>
    <EmpNo>3</EmpNo>
    <ENAME>Kishore</ENAME>
    <Job>HOD</Job>
    <Dept>Ece</Dept>
    <DeptNo>2</DeptNo>
    <Salary>90000</Salary>
  </Employee>
  <Employee>
    <EmpNo>4</EmpNo>
    <ENAME>Ram</ENAME>
    <Job>HOD</Job>
    <Dept>EEE</Dept>
    <DeptNo>5</DeptNo>
    <Salary>65000</Salary>
  </Employee>
  <Employee>
    <EmpNo>5</EmpNo>
    <ENAME>Abishek</ENAME>
    <Job>HOD</Job>
    <Dept>Chem</Dept>
    <DeptNo>7</DeptNo>
    <Salary>86000</Salary>
  </Employee>
```

</EmployeeDetails>

## XQuery

```
for $x in /EmployeeDetails/Employee
where $x/Salary > 30000
order by $x/Salary
return ($x/ENAME, $x/Salary)
```

The screenshot shows the 'xQuery tester' application with tabs for XPath, XQuery, XSLT, and Validate. The XQuery tab is active, displaying the following query:

```
for $x in /EmployeeDetails/Employee
where $x/Salary > 30000
```

Below the query, there are buttons for 'Test', 'Save', 'Color', and 'Format'. A status bar indicates 'INFO - XQuery completed (compiled in 2ms, evaluated in 3ms)'. The output area shows the resulting XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<ENAME>Kishore</ENAME>
<Salary>90000</Salary>
<ENAME>Ram</ENAME>
<Salary>65000</Salary>
<ENAME>Abishek</ENAME>
<Salary>86000</Salary>
```

The interface also includes a 'feedback' link in the top right corner.