

## DBMS LAB – 9

Q1

```
set autocommit = 0;
```

```
create table emp (empno int(6), ename varchar(20), job varchar(10), dept varchar(10), deptno  
int(3), sal float(7, 2));
```

```
start transaction;
```

```
insert into emp values (1, "sanjivkannaa", "SDE", "software", 1, 100.10);
```

```
commit;
```

```
select * from emp;
```

empno	ename	job	dept	deptno	sal
1	sanjivkannaa	SDE	software	1	100.10

```
rollback;
```

```
select * from emp;
```

empno	ename	job	dept	deptno	sal
1	sanjivkannaa	SDE	software	1	100.10

```
start transaction;
```

```
insert into emp values (2, "sri vignesh", "SDE", "software", 1, 200.10);
```

```
select * from emp;
```

empno	ename	job	dept	deptno	sal
1	sanjivkannaa	SDE	software	1	100.10
2	sri vignesh	SDE	software	1	200.10

rollback;

select \* from emp;

empno	ename	job	dept	deptno	sal
1	sanjivkannaa	SDE	software	1	100.10

Q2

#creating table

create table product (barcode varchar(10), pname varchar(10), price int, quantityinstock int);

create table sale (saleid int, deliveryaddress varchar(30), creditcard int);

create table saleitem (saleid int, barcode varchar(10), quantity int);

#insert data

insert into product values ("aaaa", "phone", 100000, 9);

insert into product values ("bbbb", "laptop", 90000, 8);

insert into sale values (1, "address1", 1234567890);

insert into sale values (2, "address2", 1234567891);

insert into saleitem values (1, "aaaa", 1);

insert into saleitem values (2, "bbbb", 2);

1

delimiter //

create trigger updateavailablequantity

-> after insert

-> on saleitem

-> for each row begin

-> update product

-> set product.quantityinstock = product.quantityinstock - NEW.quantity

```
-> where NEW.barcode = product.barcode;  
-> end;  
-> //
```

```
select * from product//
```

barcode	pname	price	quantityinstock
aaaa	phone	100000	9
bbbb	laptop	90000	8

```
insert into saleitem values (1, "aaaa", 1);//
```

```
select * from product//
```

barcode	pname	price	quantityinstock
aaaa	phone	100000	8
bbbb	laptop	90000	8

2

```
delimiter //
```

```
create procedure spininsertproduct (in barcode_ varchar(10), in pname_ varchar(10), in price_  
int, in quantity_ int)
```

```
    -> begin  
    ->      start transaction;  
    ->      insert into product values (barcode_, pname_, price_, quantity_);  
    ->      if price_ <= 0 or quantity_ < 0 then rollback;  
    ->      end if;  
    -> end;  
    -> //
```

```
delimiter ;
```

```
call spininsertproduct("cccc", "tablet", 0, 10);
```

```
call spininsertproduct("cccc", "tablet", 10, 0);
```

```
select * from product;
```

barcode	pname	price	quantityinstock
aaaa	phone	100000	10
bbbb	laptop	90000	9

```
call spininsertproduct("cccc", "tablet", 10000, 10);
```

```
select * from product;
+-----+-----+-----+-----+
| barcode | pname | price | quantityinstock |
+-----+-----+-----+-----+
| aaaa    | phone | 100000 | 10 |
| bbbb    | laptop | 90000 | 9 |
| cccc    | tablet | 10000 | 10 |
+-----+-----+-----+-----+
```

```
3
delimiter //
create function spreturn1 (quantity_ int, barcode_ varchar(10))
    -> returns int deterministic
    -> begin
    -> return (select quantity_*price as total_price from product where barcode=barcode_);
    -> end;
    -> //
```

```
select spreturn1(2, "aaaa");
    -> //
```

```
+-----+
| spreturn1(2, "aaaa") |
+-----+
| 200000 |
+-----+
```