# DBMS LAB - 6

Q1

2 rows in set (0.00 sec)

#### mysql> DESC section;

-	Туре	Null	Key	Default	Extra	
sectionnum   term	int int	NO YES	PRI 	NULL	+     	+

+----+

2 rows in set (0.01 sec)

### mysql> DESC professor;

+	+	+	+	+	L	_
Field		Null	Key	Default +	Extra	
profnum   profname   sectionnum   coursenum	int   int   int	NO YES YES	PRI     MUL	NULL NULL	   	-       +

4 rows in set (0.00 sec)

mysql> DESC student; +-----+-----+-----+------+------+

Field	Туре	Null	Key	Default	Extra
studentnum   studentname   GPA   sectionnum   coursenum	int   varchar(30)   int   int   int	NO YES YES YES YES	PRI               MUL	NULL NULL NULL NULL NULL	

5 rows in set (0.00 sec)

## mysql> DESC offsitesection;

Field	+   Type +	Null	Key	Default	Extra
	varchar(30)			NULL NULL	

2 rows in set (0.00 sec)

# mysql> DESC course;

:	 Null	Key	Default	Extra
coursenum	NO NO	PRI		

2 rows in set (0.13 sec)

# mysql> DESC section;

	Туре	Null	Key	Default	Extra	
sectionnum   term	int int	NO YES	PRI	NULL		 

2 rows in set (0.00 sec)

## mysql> DESC professor;

Field	Туре	Null	Key	Default	
profnum   profname   sectionnum   coursenum	int   int   int	NO YES YES	PRI           MUL	NULL NULL	

4 rows in set (0.00 sec)

# mysql> DESC student;

4	- ۱			-		 -	-	 	- +	 -		-	-	 	-	 	+	 -	-			+	-			-	+	 	-	-	-			+	-				-	 H
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5 rows in set (0.00 sec)

#### mysql> DESC offsitesection;

•	Туре	Null	Key	Default	Extra
location     sectionnum	varchar(30)	YES		NULL NULL	

2 rows in set (0.00 sec)

```
Q2
CREATE TABLE product (barcode VARCHAR(10) primary key, pname VARCHAR(20), price int, quantityinstock int);
CREATE TABLE sale (saleid INT primary key, deliveryaddress VARCHAR(20), creditoard int.
```

CREATE TABLE sale (saleid INT primary key, deliveryaddress VARCHAR(20), creditcard int); CREATE TABLE saleitem (saleid INT primary key, barcode VARCHAR(10), quantity int);

```
Delimiter $$
CREATE TRIGGER updateAvailabilityQuantity
AFTER INSERT
ON saleitem
FOR EACH ROW BEGIN
UPDATE product
SET product.quantityinstock = product.quantityinstock - NEW.quantity
WHERE NEW.barcode = product.barcode;
END;
$$
```

## select \* from product;

Delimiter;

barcode	pname	price	++   quantityinstock   ++
abcd	phone	10	:
•			,

1 row in set (0.00 sec)

insert into product values ('abcd', 'phone', 10, 10);
insert into saleitem values (1, 'abcd', 1);

## select \* from product;

İ	barcode	pname	price	++   quantityinstock   ++
:	abcd			

```
Date - 14/09/2023
Time - 2:30 - 5:00pm
```

+-----+ 1 row in set (0.00 sec)

Q3
create table emp (e\_no integer(5) primary key, e\_name varchar(20), pos varchar(20), man\_id
integer(5), salary integer(5), foreign key(man\_id) references emp(e\_no));
create table dept (d\_no integer(5) primary key, d\_name varchar(20));
create table company (e\_no integer(5), d\_no integer(5), joinDate date, foreign key(e\_no)
references emp(e\_no) on delete cascade, foreign key(d\_no) references dept(d\_no) on update
cascade);
insert into dept values (11,'Sales'),(22,'Development'),(33,'cleaning');
insert into emp values
(1,'Ajay','guard',1,200),(2,'Aman','sde1',1,1200),(3,'Amar','salesman',1,800),(4,'Ram','manage
r',1,1600),(5,'Avi','sde2',1,1800);
insert into company values (1,33,'2022-3-11'),(2,22,'2022-6-3'),(3,11,'2022-5-2'),(4,11,'2022-3-21'),(5,22,'2022-7-1');

(i)
mysql> select \* from emp;

+		L	<b>.</b>	+	+
į	e_no	e_name	pos	man_id	salary
1	2 3 4	Ajay   Aman   Amar   Ram   Avi	guard   sde1   salesman   manager   sde2	1     1     1     1	200   1200   800   1600   1800

5 rows in set (0.00 sec)

mysql> delete from emp where e\_no = 3; Query OK, 1 row affected (0.22 sec)

mysql> select \* from emp;

<u> </u>				
e_nc	e_name	pos	man_id	salary
j 2	.   Ajay !   Aman !   Ram	guard   sde1   manager	1   1   1	1200     1600
5	Avi	sde2	1	1800

4 rows in set (0.00 sec)

(ii)
mysql> select \* from dept;
+----+
| d\_no | d\_name |
+----+
| 11 | Sales |

```
Date - 14/09/2023
Time - 2:30 - 5:00pm
```

```
| 22 | Development |
| 33 | cleaning |
+----+
3 rows in set (0.00 sec)
```

```
mysql> update dept set d_no = 12 where d_no = 11;
Query OK, 1 row affected (0.09 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
(iii)
-- check in create table part
```