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SL1 ASSIGNMENT 8

Problem Statement : Write and execute PL/SQL block to implement all types of triggers on above DB.

Before Insert

```
mysql> create trigger bef_ins
-> before insert on customer
-> for each row
-> set new.fname = upper(new.fname);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into customer values(11, 'nidhi', 'jha', 'njha@gmail.com',
1234567890);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from customer;
```

cust_id	fname	lname	email	phone_number
1	prajakta	keer	pkeer@gmail.com	9089786756
2	shravani	indapure	shravani@gmail.com	9021977490
3	janhavi	patil	jpatil@gmail.com	9087654321
4	raveena	joshi	ajoshi@gmail.com	9012345678
5	rishita	jadhav	rjadhav@gmail.com	9087654321
7	elina	fernandes	elina@gmail.com	9102837465
8	anushree	kamble	akamble@gmail.com	91112223334
9	priety	saha	psaha@gmail.com	98887776665
10	ravi	verma	jverma@gmail.com	7719916429
11	NIDHI	jha	njha@gmail.com	1234567890

```
10 rows in set (0.00 sec)
```

After Insert

```
mysql> create trigger after_ins
-> after insert on customer
-> for each row
-> insert into contact values(new.cust_id, new.phone_number);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into customer values(12, 'vijay', 'sharma', 'vsharma@gmail.com',
1324354657);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from contact;
```

cust_id	phone_number
1	9089786756
2	9021977490
3	9087654321
4	9012345678
5	9087654321
7	9102837465
8	9111222333
9	9888777666
10	7719916429
12	1324354657

```
10 rows in set (0.00 sec)
```

Before Update

```
mysql> create table old_contacts(id int, number double);
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create trigger bef_up before update on customer for each row insert into  
old_contacts values(old.cust_id, old.phone_number);
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> update customer set phone_number = 1234567890 where cust_id = 10;
```

```
Query OK, 1 row affected (0.02 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from customer;
```

cust_id	fname	lname	email	phone_number
1	prajakta	keer	pkeer@gmail.com	9089786756
2	shravani	indapure	shravani@gmail.com	9021977490
3	janhavi	patil	jpatil@gmail.com	9087654321
4	raveena	joshi	ajoshi@gmail.com	9012345678
5	rishita	jadhav	rjadhav@gmail.com	9087654321
7	elina	fernandes	elina@gmail.com	9102837465
8	anushree	kamble	akamble@gmail.com	9111222333
9	priety	saha	psaha@gmail.com	9888777666
10	ravi	verma	jverma@gmail.com	1234567890

```
9 rows in set (0.00 sec)
```

```
mysql> select * from old_contacts;
```

id	number
10	7719916429

```
1 row in set (0.00 sec)
```

After Update

```
mysql> create trigger after_up
```

```
-> after update on customer
```

```

-> for each row
-> update contact set phone_number = new.phone_number where contact.cust_id
= new.cust_id;
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> update customer set phone_number = 9013243546 where cust_id = 12;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```

```

mysql> select * from contact;

```

cust_id	phone_number
1	9013243546
2	9013243546
3	9013243546
4	9013243546
5	9013243546
7	9013243546
8	9013243546
9	9013243546
10	9013243546
12	9013243546

10 rows in set (0.00 sec)

Before Delete

```

mysql> create trigger bef_del before delete on customer for each row delete from
contact where contact.cust_id = old.cust_id;
Query OK, 0 rows affected (0.00 sec)

```

```

mysql> select * from contact;

```

cust_id	phone_number
1	9089786756
2	9021977490
3	9087654321
4	9012345678
5	9087654321
7	9102837465
8	9111222333
9	9888777666
10	7719916429
12	1324354657

10 rows in set (0.00 sec)

```

mysql> delete from customer where cust_id = 12;
Query OK, 1 row affected (0.00 sec)

```

```

mysql> select * from customer;

```

cust_id	fname	lname	email	phone_number
1	prajakta	keer	pkeer@gmail.com	9089786756
2	shravani	indapure	shravani@gmail.com	9021977490
3	janhavi	patil	jpatil@gmail.com	9087654321
4	raveena	joshi	ajoshi@gmail.com	9012345678

5	rishita	jadhav	rjadhav@gmail.com	9087654321
7	elina	fernandes	elina@gmail.com	9102837465
8	anushree	kamble	akamble@gmail.com	91112223334
9	priety	saha	psaha@gmail.com	98887776665
10	ravi	verma	jverma@gmail.com	7719916429
11	NIDHI	jha	njha@gmail.com	1234567890

10 rows in set (0.00 sec)

```
mysql> select * from contact;
```

cust_id	phone_number
1	9089786756
2	9021977490
3	9087654321
4	9012345678
5	9087654321
7	9102837465
8	9111222333
9	9888777666
10	7719916429

9 rows in set (0.01 sec)

After Delete

```
mysql> create table deleted_customers(id int, fname varchar(50), lname
varchar(50));
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> create trigger after_del after delete on customer for each row insert
into deleted_customers values(old.cust_id, old.fname, old.lname);
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> delete from customer where cust_id = 11;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select * from deleted_customers;
```

id	fname	lname
11	NIDHI	jha

1 row in set (0.00 sec)