**\_**

QUERIES:

## \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1. count the total numbers of ordersans

mysql> select count(sell\_price) as Reference from product\_master order by sell\_price;+-----------+

| Reference |

+-----------+

| 9 |

+-----------+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q2. Calculate the average price of all the products ans

mysql> select avg(sell\_price) as Reference from product\_master order by sell\_price;+-------------+

| Reference |

+-------------+

| 3666.666667 |

+——————+

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Q3. Calculate min and max sell price of productsans:

mysql> select min(sell\_price) as Minimum, max(sell\_price) as Maximum from

product\_master order by sell\_price;+---------+---------+

| Minimum | Maximum |

+---------+----------+

| 525.00 | 12000.00 |

+————+----------+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q4. Calculate number products having sell\_price more than 1500;

ans:

mysql> select count(sell\_price) as Reference from product\_master where sell\_price>=1500;+-----------+

| Reference |

+-----------+ | 4 |

+—————+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q5. Find all the product whose quamtity on hand is less than recorder level

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** ans mysql> select description from product\_master where qty\_on\_hand<reorder\_lvl;+-------------+

| description |

+-------------+

| 1.22 Drive |

+——————+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q6. count no of products whose qty on hand is less than the above question.

ans:

mysql> select count(description) as Quantity\_higher

from product\_master where qty\_on\_hand<reorder\_lvl;

+-----------------+

| Quantity\_higher |

+-----------------+ | 1 |

+————————+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q7. Print the description and total qty sold for each product

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ans) select

s.Product\_no,p.Description, sum(s.Qty\_ordered) from sales\_order\_details s,product\_master p where

p.Product\_no=s.Prod uct\_no group by s.Product\_no,

p.Description;

+------------+---------------+--------------------+

| Product\_no | Description | sum(s.Qty\_ordered) |

+------------+---------------+--------------------+

| P00001 | 1.44 Floppies | 34 |

| P07975 | 1.44 Drive | 6 |

| P07885 | CD Drive | 5 |

| P07965 | HDD | 3 |

| P03453 | Monitors | 6 |

| P06734 | Mouse | 1 |

| P07868 | Keyboards | 3 | +------------+---------------+--------------------+

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Q8. Find the value of each product sold.

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ans.)select

s.Product\_no,

p.Description,

sum(s.Qty\_disp\*s.Product\_r ate) "Sales Per Product" from sales\_order\_details s, product\_master p

where

p.Product\_no=s.Prod uct\_no group by s.Product\_no,

p.Description;+-----------+---------------+------

-------------+

| Product\_no | Description | Sales Per Product |

+------------+---------------+-------------------+

| P00001 | 1.44 Floppies | 9975.00 |

| P07975 | 1.44 Drive | 3150.00 |

| P07885 | CD Drive | 10500.00 |

| P07965 | HDD | 8400.00 |

| P03453 | Monitors | 6300.00 |

| P06734 | Mouse | 12000.00 |

| P07868 | Keyboards | 9450.00 |

+——————+---------------+-------------------+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q9. find out the product which has been sold to 'ivan bayross’.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** mysql> select d.Product\_no,p.Description

-> from sales\_order\_details d,product\_master p , Client\_master c,sales\_order s

-> where p.Product\_no=d.Product\_no

-> and s.S\_order\_no=d.S\_order\_no

-> and c.Client\_no=s.Client\_no

-> and c.Name='Ivan Bayross';

+------------+---------------+

| Product\_no | Description |

+------------+---------------+

| P00001 | 1.44 Floppies |

| P07885 | CD Drive |

| P07965 | HDD |

| P03453 | Monitors |

| P06734 | Mouse |

+------------+---------------+

5 rows in set (0.02 sec)

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Q10. find the product\_no and description of moving products.

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

select distinct p.Product\_no,p.Description from product\_master p ,sales\_order\_details d where p.Product\_no=d.Product\_no;

+------------+---------------+

| Product\_no | Description |

+------------+---------------+

| P00001 | 1.44 Floppies |

| P03453 | Monitors |

| P06734 | Mouse |

| P07868 | Keyboards |

| P07885 | CD Drive |

| P07965 | HDD |

| P07975 | 1.44 Drive | +------------+---------------+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q11. find the names of the clients who have purchased 'CD Drive’.

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

select distinct

s.Client\_no,c.Na me from sales\_order\_details d,sales\_order s,product\_master p,Client\_master c where p.Product\_no=d.Product\_no and s.S\_order\_no=d.S\_order\_no and

c.Client\_no=s.Client\_no and p.Description='CD Drive';

+-----------+------------------+

| Client\_no | Name |

+-----------+------------------+

| C00001 | Ivan

Bayross |

| C00003 | Vandana

Saitwal |

+—————+------------------+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q12. List the product\_no and s\_order\_no of customers having qty\_ordered less than 5 from the order detail Table for the product '1.44 Floppies’. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

select d.Product\_no,d.S\_order\_no from sales\_order\_details d,sales\_orders,product\_master p where s.S\_order\_no=d.S\_order\_no and p.Product\_no=d.Product\_no and d.Qty\_ordered<5 and

p.Description='1.44 Floppies';

+------------+------------+

| Product\_no | S\_order\_no |

+------------+------------+

| P00001 | O19001 |

+------------+------------+

1 row in set (0.00 sec)

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q13. Find the products and their quantities for the orders placed by 'Vandana Saitwal' and 'Ivan Bayross’.

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mysql> select

d.Product\_no,p.Description,sum(Qty\_order

ed)"Qty Ordered" -> from sales\_order\_details d,sales\_order s,product\_master p,Client\_master c -> where s.S\_order\_no=d.S\_order\_no and p.Product\_no=d.Product\_no and

c.Client\_no=s.Client\_no and (c.name='Ivan Bayross' or c.name='Vandana Saitwal')

-> group by d.Product\_no,p.Description;

+------------+---------------+-------------+

| Product\_no | Description | Qty Ordered |

+------------+---------------+-------------+

| P00001 | 1.44 Floppies | 14 |

| P07885 | CD Drive | 2 |

| P07965 | HDD | 2 |

| P03453 | Monitors | 2 |

| P06734 | Mouse | 1 |

+------------+--------------+-------------+5 rows in set (0.00 sec)

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q14. Find the products and their quantities for the

orders placed by client\_no'C00001' and 'C00002'.

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ans.) select

s.Client\_no,d.Product\_no,p.Description ,sum(Qty\_ordered)"Qty\_ordered"from sales\_order s, sales\_order\_details d,product\_masterp,Client\_master cwhere s.s\_order\_no=d.s\_order\_no and

d.Product\_no=p.Product\_no and

s.Client\_no=c.Client\_no group by

s.Client\_no,d.Product\_no,p.D escriptionhaving

s.Client\_no='C00001' or

s.Client\_no=‘C00002';

+-----------+------------+---------------+-------------+

| Client\_no | Product\_no | Description | Qty\_ordered |

+-----------+------------+---------------+-------------+

| C00001 | P00001 | 1.44 Floppies | 4 |

| C00001 | P07885 | CD Drive | 2 |

| C00001 | P07965 | HDD | 2 |

| C00001 | P03453 | Monitors | 2 |

| C00001 | P06734 | Mouse | 1 |

| C00002 | P00001 | 1.44 Floppies | 10 | +-----------+------------+---------------+-------------+

## \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LO3 Formulate and write sql queries for efficient information retrieval.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# SE IT/S13 /Assignment Number

**9**

Aim : Creating Views in SQL

**Create View from single table and Multiple table.**

**Queries**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_**

**Single Table**

mysql> create view v1 as select \* from

client\_master; Query OK, 0 rows affected (0.08 sec)mysql> select \* from v1;

+-----------+------------------+----------+----------+-------+-------------+---------+-----

--------+

| client\_no | client\_name | address1 | address2 | city | state | pincode

|balance\_due |

+-----------+------------------+----------+----------+-------+-------------+---------+-----

--------+

| C00001 | Ivan Bayross | NULL | NULL | Bombay | Maharashtra | 400054 |15000.00 |

| C00002 | Vandana Saitwal | NULL | NULL | Madras | Tamil Nadu | 780001 |0.00 |

| C00003 | Pramada Jaguste | NULL | NULL | Bombay | Maharashtra | 400057 |5000.00 |

| C00004 | Basu Navindgi | NULL | NULL | Bombay | Maharashtra | 400056 |0.00 |

| C00005 | Ravi Shreedharan | NULL | NULL | Delhi | | 100001 |2000.00 |

| C00006 | Rukmini | NULL | NULL | Bombay | Maharashtra | 400050 |15000.00 |

+-----------+------------------+----------+----------+-------+-------------+---------+-----

--------+

6 rows in set (0.00 sec)

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_ Multiple Table**

mysql> create view v3 as select client\_master.client\_no,product\_master.product \_no from client\_master,product\_master;Query OK, 0 rows affected (0.05 sec)mysql> select \* from v3;

+-----------+------------+

| client\_no | product\_no |

+-----------+------------+

| C00006 | P00001 |

| C00005 | P00001 |

| C00004 | P00001 |

| C00003 | P00001 |

| C00002 | P00001 |

| C00001 | P00001 |

| C00006 | P03453 |

| C00005 | P03453 |

| C00004 | P03453 |

| C00003 | P03453 |

| C00002 | P03453 |

| C00001 | P03453 |

| C00006 | P06734 |

| C00005 | P06734 |

| C00004 | P06734 |

| C00003 | P06734 |

| C00002 | P06734 |

| C00001 | P06734 |

| C00006 | P07065 |

| C00005 | P07065 |

| C00004 | P07065 |

| C00003 | P07065 |

| C00002 | P07065 |

| C00001 | P07065 |

| C00006 | P07865 |

| C00005 | P07865 |

| C00004 | P07865 |

| C00003 | P07865 |

| C00002 | P07865 |

| C00001 | P07865 |

| C00006 | P07868 |

| C00005 | P07868 |

| C00004 | P07868 |

| C00003 | P07868 |

| C00002 | P07868 |

| C00001 | P07868 |

| C00006 | P07885 |

| C00005 | P07885 |

| C00004 | P07885 |

| C00003 | P07885 |

| C00002 | P07885 |

| C00001 | P07885 |

| C00006 | P07975 |

| C00005 | P07975 |

| C00004 | P07975 |

| C00003 | P07975 |

| C00002 | P07975 |

| C00001 | P07975 |

| C00006 | P08865 |

| C00005 | P08865 |

| C00004 | P08865 |

| C00003 | P08865 | | C00002 | P08865 |

| C00001 | P08865 |

+-----------+------------+

54 rows in set (0.00 sec)

# LO 4 Apply View, Triggers and Procedures to demonstrate specific event handling

**SE IT/S13 /Assignment Number/10** Aim : Use Of Triggers

## \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Create

Trigger:Queries:

## \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

delimiter $$create trigger tg1 before insert on Student

for each row

begin set new.name= upper(new.name

);set new.city= upper(new.city); end;$$

mysql> +---------+---------+--------+-------------+ -> | roll\_no | name | city | state |

-> +---------+---------+--------+-------------+

-> | 65| KANIKA | MUMBAI | Maharashtra |

-> | 62 |NIKITA | MUMBAI | maharastra |

-> | 89 | SALONI | PUNE | maharastra |

-> | 123 | JAY | MUMBAI | maharastra |

-> | 3 | KRISHNA | PUNE | maharastra |

-> | 4 | KRISHNA | PUNE | maharastra |

-> +————+---------+--------+-------------+

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

delimiter $$create

trigger t2after

update on personfor each rowbegin

insert into audit\_log values(old.fname,old.lname,new.fname,new.lname,c urdate()

);

en d; $$

mysql> select \* from audit\_log;

+--------+--------+--------+-------+------------+

| ofname | olname | nfname | nname | cwhen |

+--------+--------+--------+-------+------------+

| Kanika|Khurana | Nikita | Kanchan | 2023-10-05 |

+--------+--------+--------+------+------------+1 row in set (0.04 sec)

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_

**LO 4 Apply View, Triggers and Procedures to demonstrate specific event handling**

## SE IT/S13 /Assignment Number/11

Aim : Use and Create Functions and Procedures

QUERIES:

## \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

create procedure my\_pro(IN client\_no int)

-> begin

-> select\*from client\_master LIMIT

-> client\_no;

-> end;

->&&

Query OK, 0 rows affected (0.37 sec) mysql> call my\_pro(2);

->&&

+-----------+-----------------+----------+----------+--------+---

---------+---------+---------+

| client\_no | name | address1 | address2 | city

| state | pincode | bal\_due |

+-----------+-----------------+----------+----------+--------+-----------+---------+---------+

| C00001 | Vandana Saitwal | NULL | NULL | Madras | Tamil Nadu | 780001 | 0.00 |

| C00002 | Vandana Saitwal | NULL | NULL | Madras | Tamil Nadu | 780001 | 0.00 | +-----------+-----------------+----------+----------+--------+---

---------+---------+---------+

2 rows in set (0.06 sec)

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  create procedure my\_pro1(OUT client\_no int)

-> begin

-> select count(\*) into client\_no

-> from client\_master;

-> end;

->&&

Query OK, 0 rows affected (0.05 sec) mysql> call my\_pro(@a);

->&&

Empty set (0.02 sec)

Query OK, 0 rows affected (0.02 sec) mysql> select @a;

->&&

+------------+

| @a |

+------------+

| NULL |

### +------------+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

create function proprice (sell\_price double)

-> returns varchar(20)

-> deterministic

-> begin

-> declare lvl varchar(20);

-> if sell\_price<1000 then

-> set lvl='cheap';

-> elseif sell\_price>3000 then

-> set lvl='expensive';

-> end if;

-> return(lvl);

-> end;

->&&

Query OK, 0 rows affected (0.07 sec) select Product\_no,proprice(sell\_price) from

product\_master;

->&&

+------------+----------------------+

| Product\_no | proprice(sell\_price) |

+------------+----------------------+

| P00001 | cheap |

| P03453 | expensive |

| P06734 | NULL |

| P07865 | cheap |

| P07868 | expensive |

| P07885 | expensive |

| P07965 | expensive |

| P07975 | NULL |

| P08865 | NULL |

+——————+----------------------+

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LO 4 Apply View, Triggers and Procedures to demonstrate specific event handling**

**SE IT/S13 /Assignment Number/12**

Aim : Use and Create Cursor

## \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Create

Cursor:Queries:

## \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

create procedure build\_email\_list(inout email\_list varchar(50))begin declare v\_finished integer default 0;declare v\_email varchar(100) default

"";declare email\_cursor cursor forselect email from person ;declare continue handler for not found set v\_finished=1;

open email\_cursor;get \_email:loop fetch email\_cursor into v\_email;if v\_finished =1 thenleave

get\_email;end

if;set

email\_list=concat(v\_ email,";",email\_list); end loop get\_email;close email\_cursor;end;

select \* from person;

->&&

+-------+----------+----+-----------------+

| fname | lname | id | email |

+-------+----------+----+-----------------+

| aman | kapadia | 38 | aman@gmail.com |

| anish | kirtikar | 43 | anish@gmail.com |

| anvay | shroff | 63 | anvay@gmail.com | +-------+----------+----+----------------+3 rows in set (0.00 sec)

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

mysql> create procedure build\_email\_list(inout email\_list varchar(50))

-> begin

-> declare v\_finished integer default 0;

-> declare v\_email varchar(100) default "";

-> declare email\_cursor cursor for

-> select email from person ;

-> declare continue handler

-> for not found set v\_finished=1;

-> open email\_cursor;

-> get\_email:loop

-> fetch email\_cursor into v\_email;

-> if v\_finished =1 then

-> leave get\_email;

-> end if;

-> set

-> email\_list=concat(v\_email,";",email\_list);

-> end loop get\_email;

-> close email\_cursor;

-> end;

->&&

Query OK, 0 rows affected (0.06 sec) mysql> set @email\_list="";

->&&

Query OK, 0 rows affected (0.03 sec) mysql> call build\_email\_list(@email\_list);

->&&

Query OK, 0 rows affected (0.04 sec) mysql> select @email\_list;

->&&

+-------------------------------------------------+

| @email\_list |

+-------------------------------------------------+

|

anvay@gmail.com;anish@gmail.com;aman@gmail. com; |

+-------------------------------------------------+

1 row in set (0.00 sec)

### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mysql> set @email\_list="2";

->&&Query OK, 0 rows a ffected (0.00 sec)

mysql> call build\_email\_list(@email\_list);

->&&

Query OK, 0 rows affected (0.00 sec)

mysql> select @email\_list;

->&&

+--------------------------------------------------+ | @email\_list |

+--------------------------------------------------+| anvay@gmail.com;anish@gmail.com;aman@gmail.

com;2 |