# CS-313 - Assignment 3

Monu Kumar Soyal - 200010029

September 6, 2022

# Answer 1

```
create user lab3@localhost identified by 'Password*123'; grant all privileges on lab3.* to lab3@localhost; mysql -u lab3 -p
Password*123
create database lab3;
use lab3;
```

```
mysql> create user lab3@localhost identified by 'Password*123';
Query OK, 0 rows affected (0.07 sec)
mysql> grant all privileges on lab3.* to lab3@localhost;
Query OK, 0 rows affected (0.02 sec)
```

```
monusoyal@DESKTOP-C7BLGHJ:~$ mysql -u lab3 -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.30-0ubuntu0.22.04.1 (Ubuntu)

Copyright (c) 2000, 2022, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> _
```

```
mysql> create database lab3;
Query OK, 1 row affected (0.02 sec)
mysql> use lab3;
Database changed
```

```
- - creating the part table
create table part (
part_no int,
part\_name\ varchar(30),
color\ varchar(50),
weight float,
primary key(part_no)
);
- - creating the supplier table
create table supplier(
supplier_no int,
sup\_name\ varchar(30),
city\ varchar(50),
bank varchar(20),
primary key(supplier_no)
);
- - creating the shipment table
create table shipment(
shipment\_no\ int,
part_no int,
supplier_no int,
date\ varchar(20),
quantity int,
price float,
primary key(shipment_no),
foreign key(part_no) references part(part_no),
foreign key(supplier_no) references
supplier(supplier\_no)
);
```

```
mysql> create table shipment (
    -> shipment_no int,
   -> part_no int,
   -> supplier_no int,
   -> date varchar(20),
    -> quantity int,
   -> price float,
    -> primary key(shipment_no),
   -> foreign key(part_no) references part(part_no),
    -> foreign key(supplier_no) references supplier(supplier_no));
Query OK, 0 rows affected (0.51 sec)
mysql> show tables;
 Tables_in_lab3
 part
 shipment
 supplier
 rows in set (0.00 sec)
```

- - For part table

```
insert into part
values(1, "partname1", "red", 100);
- - For supplier table
insert into supplier
values(01, "supplier_1", "Mumbai", "BOB");
```

#### - - For shipment table

insert into shipment values(1, 1, 1, "2/9/2022", 10, 100000.0);

#### Content of .sql file - - >

```
insert into part values (2, "Part_2", "red", 400);
insert into part values (3, "Part_3", "Green", 500);
insert into part values (4, "Part_4", "Blue", 600);
insert into supplier values (2, "Supplier_2", "Mumbai", "SBI");
insert into supplier values (3, "Supplier_3", "Chennai", "HDFC");
insert into shipment values (2, 4, 2, "3/7/2022", 5, 270000.0);
insert into shipment values (3, 2, 1, "4/5/2022", 6, 325000.0);
insert into shipment values (4, 1, 3, "20/9/2021", 15, 401000.0);
insert into shipment values (5, 3, 1, "22/8/2022", 8, 575000.0);
insert into shipment values (6, 4, 2, "12/2/2022", 9, 600000.0);
insert into shipment values (7, 1, 1, "15/7/2022", 1, 70000.0);
insert into shipment values (8, 1, 2, "1/5/2022", 2, 85000.0);
insert into shipment values (9, 2, 3, "25/3/2022", 3, 125000.0);
insert into shipment values (10, 2, 2, "29/5/2022", 4, 235000.0
insert into shipment values (11, 4, 3, "31/3/2022", 5, 433000.0);
insert into shipment values (12, 3, 2, "13/6/2022", 6, 365000.0);
insert into shipment values (13, 2, 1, "23/8/2022", 3, 365000.0);
insert into shipment values (14, 3, 2, "11/2/2022", 7, 365000.0);
insert into shipment values (15, 3, 3, "4/7/2022", 2, 365000.0);
insert into shipment values (16, 4, 3, "17/3/2022", 1, 365000.0);
```

```
nysql> source 200010029.sql
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.02 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.02 sec)
Query OK, 1 row affected (0.02 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.01 sec)
mysql>
```

-->(a). select \* from part natural join supplier natural join shipment where color = "red";

--> (b).
select sum(shipment.price), supplier.supplier\_no
from part, supplier, shipment
where shipment.supplier\_no = supplier.supplier\_no
and part.part\_no = shipment.part\_no
group by supplier.supplier\_no order by supplier.supplier\_no;

--> (c).

select supplier.supplier\_no, sup\_name

from part, supplier, shipment

where shipment.supplier\_no = supplier.supplier\_no

and part.part\_no = shipment.part\_no

group by supplier.supplier\_no

having count(distinct part.part\_no) = (select count(distinct part\_no) from

part);

art_no	supplier_n	0	part_name	color	weight	sup_name	city	bank	shipment_no	date	quantity	price
1		1	partname1	red	100	supplier 1	Mumbai	BOB	1	2/9/2022	10	100000
1		3 j	partname1	red	100	Supplier_3	Chennai	HDFC	4	20/9/2021	15	401000
1		1	partname1	red	100	supplier_1	Mumbai	BOB	7	15/7/2022	1	70000
1		2	partname1	red	100	Supplier_2	Mumbai	SBI	8	1/5/2022	2	85000
2		1	Part_2	red	400	supplier_1	Mumbai	BOB	3	4/5/2022	6	325000
2		3	Part_2	red	400	Supplier_3	Chennai	HDFC	9	25/3/2022	3	125000
2		2	Part_2	red	400	Supplier_2	Mumbai	SBI	10	29/5/2022	4	235000
2		1	Part_2	red	400	supplier_1	Mumbai	BOB	13	23/8/2022	3	365000

| supplier\_no | sup\_name | | 2 | Supplier\_2 | | 3 | Supplier\_3 | | tows in set (0.01 sec)