# **Assignment 1**

Consider the following relational schema for a company and solve the following queries: Supply (item\_id, supplier\_id, purchase\_date, Quantity, unit\_cost);

Material (item\_id, item\_name, make);

#### Queries:

- (a) Find the name of all materials supplied by 'S2' and make is 'Hindustan Liver'.
- (b) Find the purchase date of the item 'shampoo' having unit cost greater than Rs.
- (c) Find all item name supplied by 'S5'.
- (d) List all the materials under the make 'Himalay'

### **SOLUTION:**

mysql> create database a1mouli; Query OK, 1 row affected (0.08 sec)

mysql> show databases;

++
Database
++
a1mouli
information_schema
mysql
performance_schema
sakila
sys
world
++

7 rows in set (0.00 sec)

mysql> use a1mouli;

Database changed

mysql> create table Material

→ ( item\_id varchar(8) primary key, item\_name varchar(20), make varchar(15) ); Query OK, 0 rows affected (0.12 sec)

mysql> desc Material;

Field	   Type 	Null	Key	Default	Extra
item_id item_name make	varchar(8)   varchar(20)   varchar(15)	NO   YES   YES	PRI 	-	         

3 rows in set (0.00 sec)

mysql> create table Supply

→ (item\_id varchar(8) references Material, supplier\_id varchar(11), purchase\_date Date, quantity integer(8), unit\_cost float(10,2));

## Query OK, 0 rows affected, 2 warnings (0.08 sec)

## mysql> desc Supply;

++				+	+
Field	Type	Null	Key	Default	Extra
++		<b></b> -	++		<b></b>
item_id	varchar(8)	YES		NULL	
supplier_id	varchar(11)	YES		NULL	
purchase_date	date	YES		NULL	
quantity	int	YES		NULL	
unit_cost	float(10,2)	YES		NULL	
++		<b></b> -	++		H

5 rows in set (0.00 sec)

mysql> insert into Material VALUES('I1','Bannispaz','Himalaya');

Query OK, 1 row affected (0.04 sec)

mysql> insert into Material VALUES('I2','Lux','Hindustan Liver');

Query OK, 1 row affected (0.04 sec)

mysql> insert into Material VALUES('I3','Shampoo','Hindustan Liver');

Query OK, 1 row affected (0.04 sec)

mysql> insert into Material VALUES('I4','NaturalRedRosePow','Himalaya');

Query OK, 1 row affected (0.03 sec)

mysql> insert into Material VALUES('I5','Clearvital','Himalaya');

Query OK, 1 row affected (0.03 sec)

mysql> insert into Material VALUES('I6','Pepsodent ','Hindustan Liver');

Query OK, 1 row affected (0.03 sec)

mysql> insert into Material VALUES('I7','Lakme Kajal','Lakme');

Query OK, 1 row affected (0.04 sec)

mysgl> insert into Material VALUES('I8','Dove','Hindustan Liver');

Query OK, 1 row affected (0.04 sec)

mvsql> insert into Material VALUES('I9','Lakme Beauty','Lakme');

Query OK, 1 row affected (0.04 sec)

#### mysql> select \*from Material;

++   item_id	item_name	++   make
I2   I3   I4   I5   I6   I7	Bannispaz   Lux   Shampoo   NaturalRedRosePow   Clearvital   Pepsodent Lakme Kajal Dove Lakme Beauty	Himalaya   Hindustan Liver   Hindustan Liver   Himalaya   Himalaya   Hindustan Liver   Lakme   Hindustan Liver   Lakme

9 rows in set (0.00 sec)

mysql> insert into Supply VALUES ('I4','S1','2022-09-17',12,2400.50); Query OK, 1 row affected (0.04 sec)

```
mysal> insert into Supply VALUES ('I1','S2','2022-09-17',24,240.524);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Supply VALUES ('I2', 'S2', '2022-09-19', 20, 400.20);
Query OK, 1 row affected (0.04 sec)
mysql> insert into Supply VALUES ('I3', 'S3', '2022-10-19', 1500, 1500.00);
Query OK, 1 row affected (0.04 sec)
mysql> insert into Supply VALUES ('I5','S4','2022-10-19',150,25500.04);
Query OK, 1 row affected (0.02 sec)
mysql> insert into Supply VALUES ('I9','S2','2022-10-20',15,9650.12);
Query OK, 1 row affected (0.04 sec)
mysal> insert into Supply VALUES ('19','S5','2022-11-18',15,9650.12);
Query OK, 1 row affected (0.04 sec)
mysql> insert into Supply VALUES ('I8','S5','2022-11-18',250,65947.21);
Query OK, 1 row affected (0.04 sec)
mysql> insert into Supply VALUES ('I7','S4','2022-11-19',40,15000.12);
Query OK, 1 row affected (0.04 sec)
mysql> insert into Supply VALUES ('I6', 'S2', '2022-11-19', 100, 2500.15);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Supply VALUES ('I6','S5','2022-11-22',150,3750.75);
Query OK, 1 row affected (0.03 sec)
mysql> insert into Supply VALUES ('I5','S5','2022-11-22',30,30000.75);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Supply VALUES ('18','S2','2022-12-02',500,10000.25);
Query OK, 1 row affected (0.03 sec)
```

#### mysql> select \*from Supply;

+	<del>-</del>		+	+
item_id	supplier_id	purchase_date	quantity	unit_cost
+	<del>-</del>		+	+
14	S1	2022-09-17	12	2400.50
I1	S2	2022-09-17	24	240.52
I2	S2	2022-09-19	20	400.20
I3	S3	2022-10-19	1500	1500.00
I5	S4	2022-10-19	150	25500.04
19	S2	2022-10-20	15	9650.12
19	S5	2022-11-18	15	9650.12
18	S5	2022-11-18	250	65947.21
17	S4	2022-11-19	40	15000.12
16	S2	2022-11-19	100	2500.15
16	S5	2022-11-22	150	3750.75
15	S5	2022-11-22	30	30000.75
18	S2	2022-12-02	500	10000.25
+	L			

13 rows in set (0.00 sec)

mysql> select item\_name from Material M, Supply S where make = 'Hindustan Liver' and M.item id=S.item id and supplier id='S2';

Dove
3 rows in set (0.00 sec) mysql> select item_name from Material m, Supply S where M.item_id=S.item_id and item_name='Shampoo' and unit_cost>50.00;
item_name
++  1 row in set (0.00 sec)  mysql> select item_name from Material m, Supply S where M.item_id=S.item_id and item_name='Shampoo' and unit_cost<50.00;
Empty set (0.00 sec) mysql> select item_name from Material m, Supply S where M.item_id=S.item_id and supplier_id='S5';
++   item_name
Lakme Bridal     Dove
4 rows in set (0.00 sec) mysql> select item_name from Material m, Supply S where M.item_id=S.item_id and make='Himalaya'; +
item_name
NaturalRedRosePow     Bannispaz     Clearvital     Clearvital
4 rows in set (0.00 sec)