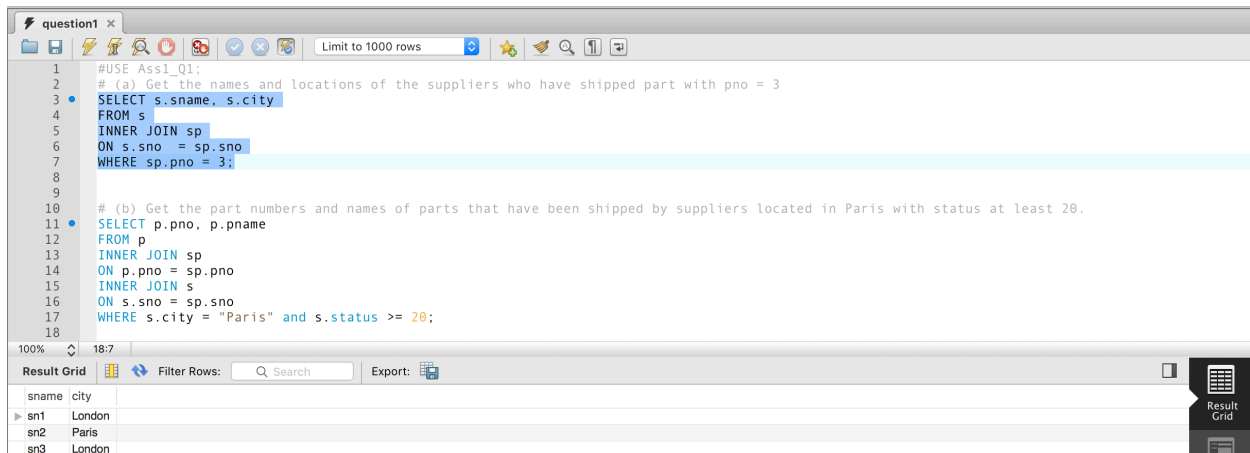


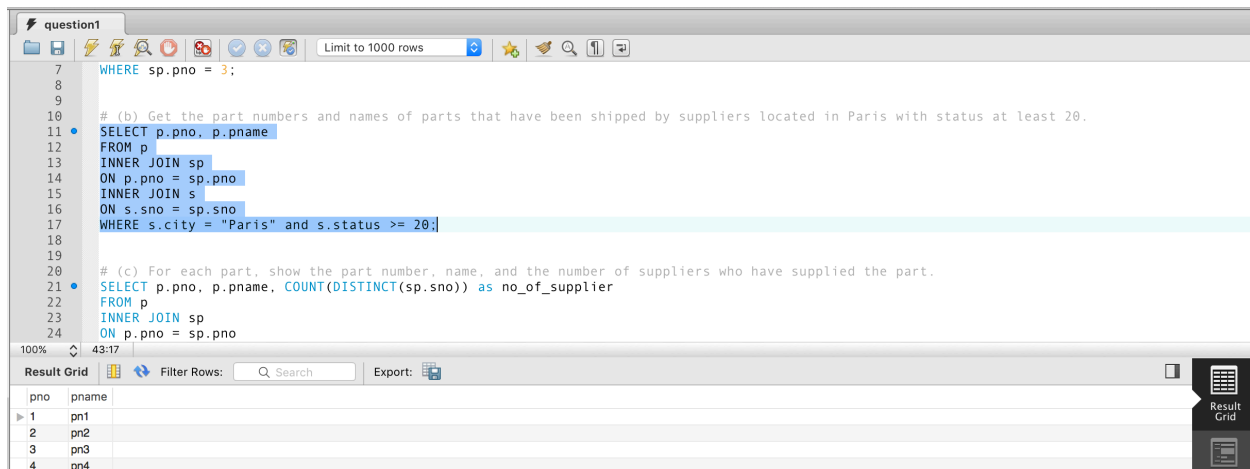
Question 1 – Queries & Results



```
1 #USE Ass1_Q1;
2 # (a) Get the names and locations of the suppliers who have shipped part with pno = 3
3 • SELECT s.sname, s.city
4 FROM s
5 INNER JOIN sp
6 ON s.sno = sp.sno
7 WHERE sp.pno = 3;
8
9
10 # (b) Get the part numbers and names of parts that have been shipped by suppliers located in Paris with status at least 20.
11 • SELECT p.pno, p.pname
12 FROM p
13 INNER JOIN sp
14 ON p.pno = sp.pno
15 INNER JOIN s
16 ON s.sno = sp.sno
17 WHERE s.city = "Paris" and s.status >= 20;
18
```

sname	city
sn1	London
sn2	Paris
sn3	London

Figure 1: Answer to Q1/a



```
7 WHERE sp.pno = 3;
8
9
10 # (b) Get the part numbers and names of parts that have been shipped by suppliers located in Paris with status at least 20.
11 • SELECT p.pno, p.pname
12 FROM p
13 INNER JOIN sp
14 ON p.pno = sp.pno
15 INNER JOIN s
16 ON s.sno = sp.sno
17 WHERE s.city = "Paris" and s.status >= 20;
18
19
20 # (c) For each part, show the part number, name, and the number of suppliers who have supplied the part.
21 • SELECT p.pno, p.pname, COUNT(DISTINCT(sp.sno)) as no_of_supplier
22 FROM p
23 INNER JOIN sp
24 ON p.pno = sp.pno
```

pno	pname
1	pn1
2	pn2
3	pn3
4	pn4

Figure 2: Answer to Q1/b

question1

Limit to 1000 rows

```

14 ON p.pno = sp.pno
15 INNER JOIN s
16 ON s.sno = sp.sno
17 WHERE s.city = "Paris" and s.status >= 20;
18
19
20 # (c) For each part, show the part number, name, and the number of suppliers who have supplied the part.
21 • SELECT p.pno, p.pname, COUNT(DISTINCT(sp.sno)) as no_of_supplier
22 FROM p
23 INNER JOIN sp
24 ON p.pno = sp.pno
25 GROUP BY p.pno;
26
27
28 # (d) For each London supplier who has shipped at least 1000 parts, show the name of the supplier and the total number of parts he/she has shi
29 • SELECT c.sname, c.total_shipped
30 FROM
31 (SELECT s.sname, s.city, SUM(sp.qty) as total_shipped

```

100% 16:25

Result Grid Filter Rows: Q Search Export:

pno	pname	no_of_supplier
1	pn1	4
2	pn2	3
3	pn3	3
4	pn4	2
5	pn5	1

Result Grid Form Editor

Figure 3: Answer to Q1/c

```

27
28 # (d) For each London supplier who has shipped at least 1000 parts, show the name of the supplier and the total number of parts he/s
29 • SELECT c.sname, c.total_shipped
30 FROM
31 (SELECT s.sname, s.city, SUM(sp.qty) as total_shipped
32 FROM s
33 INNER JOIN sp
34 ON s.sno = sp.sno
35 GROUP BY s.sno
36 HAVING s.city = "London" and total_shipped >= 1000) as c;

```

100% 58:36

Result Grid Filter Rows: Q Search Export:

sname	total_shipped
sn1	1500

Figure 4: Answer to Q1/d

```

39 # (e) Get the names and cities of the suppliers who have supplied all parts that weigh less than 4 grams.
40 • SELECT sname, city
41 FROM(
42 SELECT s.sname, s.city, p.weight, "invalid" =
43 CASE WHEN p.weight > 4 THEN 0 ELSE 1 END as invalid_weight
44 FROM s
45 INNER JOIN sp
46 ON s.sno = sp.sno
47 INNER JOIN p
48 ON p.pno = sp.pno) a
49 GROUP BY a.sname, a.city
50 HAVING SUM(invalid_weight) = 0;
51
52
53

```

100% 32:50

Result Grid Filter Rows: Q Search Export:

sname	city
sn3	London
sn4	Rome

Figure 5: Answer to Q1/e