use supplier;

Database changed

mysql> select \* from suppliers;

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

| Sid | Sname | Address |

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

| 1 | Ramesh | Bangalore |

| 2 | John | Hyderabad |

| 3 | Girish | Delhi |

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

3 rows in set (0.00 sec)

mysql> select \* from parts;

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

| Pid | Pname | Colour |

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

| 101 | Body | red |

| 102 | steering | black |

| 103 | Seats | grey |

| 104 | stereo | blue |

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

4 rows in set (0.00 sec)

mysql> select \* from catalog;

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

| Sid | Pid | cost |

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

| 1 | 101 | 10000 |

| 1 | 102 | 3000 |

| 1 | 103 | 11000 |

| 1 | 104 | 5000 |

| 2 | 102 | 5000 |

| 2 | 103 | 8000 |

| 3 | 101 | 9000 |

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

7 rows in set (0.00 sec)

1. **Find the pnames of parts for which there is some supplier.**

select Pname from parts,catalog where Catalog.Pid = parts.Pid;

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

| Pname |

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

| Body |

| Body |

| steering |

| steering |

| Seats |

| Seats |

| stereo |

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

1. rows in set (0.00 sec)

**(ii) Find the snames of suppliers who supply every part.**

select distinct s.sname from suppliers s

-> where not exists(select p.pid from parts p

-> where not exists(select c.sid from catalog c

-> where c.sid=s.sid and c.pid=p.pid));

+--------+

| sname |

+--------+

| Ramesh |

+--------+

1 row in set (0.00 sec)

1. **Find the snames of suppliers who supply every red part.**

select sname from suppliers,parts,catalog where parts.pid = catalog.pid and parts.colour = 'red' and catalog.sid = suppliers.sid;

+--------+

| sname |

+--------+

| Ramesh |

| Girish |

+--------+

2 rows in set (0.00 sec)

1. **Find the pnames of parts supplied by Girish Suppliers and by no one else.**

select pname from parts, catalog, suppliers where suppliers.sid = catalog.sid and sname = 'Girish' and parts.pid = catalog.pid;

+-------+

| pname |

+-------+

| Body |

+-------+

1 row in set (0.00 sec)

1. **Find the sids of suppliers who charge more for some part than the average cost of that part (averaged over all the suppliers who supply that part).**

select distinct sname from suppliers,catalog where catalog.cost>(select avg(cost) from catalog,parts where parts.pid = catalog.pid and parts.pname = 'Body') and catalog.sid = suppl

+--------+

| sname |

+--------+

| Ramesh |

+--------+

1 row in set (0.01 sec)