Module-5 SELECT Statement Problems

For event requests, list the event number, event date (eventrequest.dateheld), and count of the event plans. Only include event requests in the result if the event request has more than one related event plan with a work date in December 2013.

```
SELECT
er.EventNo,
er.DateHeld,
count(*) AS EventPlanCount
FROM EventRequest AS er
INNER JOIN EventPlan AS ep ON er.EventNo = ep.EventNo
WHERE ep.WorkDate BETWEEN '2013-12-01' AND '2013-12-31'
GROUP BY er.EventNo
HAVING EventPlanCount > 1;
```

List the plan number, event number, work date, and activity of event plans meeting the following two conditions: (1) the work date is in December 2013 and (2) the event is held in the "Basketball arena". Your query must not use the facility number ("F101") of the basketball arena in the WHERE clause. Instead, you should use a condition on the FacName column for the value of "Basketball arena".

```
SELECT
ep.PlanNo,
ep.EventNo,
ep.EventNo,
ep.WorkDate,
ep.Activity
FROM EventPlan AS ep
INNER JOIN EventRequest AS er ON ep.EventNo = er.EventNo
INNER JOIN Facility AS f ON er.FacNo = f.FacNo
WHERE (f.FacName = 'Basketball arena') AND (ep.WorkDate BETWEEN '2013-12-01' AND '2013-12-31');
```

List the event number, event date, status, and estimated cost of events where there is an event plan managed by Mary Manager and the event is held in the basketball arena in the period October 1 to December 31, 2013. Your query must not use the facility number ("F101") of the basketball arena or the employee number ("E101") of "Mary Manager" in the WHERE clause. Thus, the WHERE clause should not have conditions involving the facility number or employee number compared to constant values.

```
SELECT
er.EventNo,
er.DateHeld,
er.DateReq,
er.EstCost,
er.Status
FROM EventRequest AS er
INNER JOIN EventPlan AS ep ON er.EventNo = ep.EventNo
INNER JOIN Employee AS e ON ep.EmpNo = e.EmpNo
INNER JOIN Facility AS f ON er.FacNo = f.FacNo
WHERE (f.FacName = 'Basketball arena') AND (er.DateHeld BETWEEN '2013-10-01' AND '2013-12-31') AND (e.EmpName = 'Mary Manager');
```

```
mysql> SELECT
-> er.EventNo,
-> er.DateHeld,
-> er.DateReq,
-> er.EstCost,
-> er.Status
-> FROM EventRequest AS er
-> INNER JOIN EventPlan AS ep ON er.EventNo = ep.EventNo
-> INNER JOIN Employee AS e ON ep.EmpNo = e.EmpNo
-> INNER JOIN Facility AS f ON er.FacNo = f.FacNo
-> WHERE (f.FacName = 'Basketball arena') AND (er.DateHeld BETWEEN '2013-10-01' AND '2013-12-31') AND (e.EmpName = 'Mary Manager');

| EventNo | DateHeld | DateReq | EstCost | Status |
| E106 | 2013-12-12 | 2013-07-28 | 2000.00 | Approved |
```

List the plan number, line number, resource name, number of resources (eventplanline.number), location name, time start, and time end where the event is held at the basketball arena, the event plan has activity of activity of "Operation", and the event plan has a work date in the period October 1 to December 31, 2013. Your query must not use the facility number ("F101") of the basketball arena in the WHERE clause. Instead, you should use a condition on the FacName column for the value of "Basketball arena".

```
SELECT
 epl.PlanNo,
 epl.LineNo,
 epl.NumberFld AS 'Number',
 epl.TimeStart,
 epl.TimeEnd,
 I.LocName
             AS 'Location name',
              AS 'Resource name'
 r.ResName
FROM EventPlanLine AS epl
INNER JOIN EventPlan AS ep ON epl.PlanNo = ep.PlanNo
INNER JOIN Location AS I ON epl.LocNo = I.LocNo
INNER JOIN ResourceTbl AS r ON epl.ResNo = r.ResNo
INNER JOIN Facility AS f ON I.FacNo = f.FacNo
WHERE (f.FacName = 'Basketball arena') AND (ep.Activity = 'Operation') AND
   (ep.WorkDate BETWEEN '2013-10-01' AND '2013-12-31')
ORDER BY epl.PlanNo;
```

```
vsal> SELECT
        epl.PlanNo,
        epl.LineNo,
epl.NumberFld AS 'Number',
        epl.TimeStart,
        epl.TimeEnd,
                           AS 'Location name'.
         l.LocName
                           AS 'Resource name'
        r.ResName
   -> FROM EventPlanLine AS epl
-> INNER JOIN EventPlan AS ep ON epl.PlanNo = ep.PlanNo
   -> INNER JOIN Location AS l ON epl.LocNo = l.LocNo
-> INNER JOIN ResourceTbl AS r ON epl.ResNo = r.ResNo
   -> INNER JOIN Facility AS f ON l.FacNo = f.FacNo
-> WHERE (f.FacName = 'Basketball arena') AND (ep.Activity = 'Operation') AND
-> (ep.WorkDate BETWEEN '2013-10-01' AND '2013-12-31')
   -> ORDER BY epl.PlanNo;
PlanNo | LineNo | Number | TimeStart
                                                            | TimeEnd
                                                                                        | Location name | Resource name
                            2 | 2013-12-05 18:00:00 | 2013-12-05 19:00:00 |
                                                                                          Locker room
P102
                                   2013-12-05 18:00:00
                                                               2013-12-05 21:00:00
                                                                                           Gate
                                                                                                               attendant
                             4 | 2013-12-05 19:00:00 |
2 | 2013-12-12 18:00:00 |
P102
                                  2013-12-05 19:00:00 | 2013-12-05 22:00:00
                                                                                           Locker room
                                                                                                               nurse
P103
                                                              2013-12-12 21:00:00
                                                                                           Locker room
                                                                                                               attendant
                                  2013-12-12 18:00:00 |
P103
                                                              2013-12-12 21:00:00
                                                                                           Gate
                                                                                                               attendant
P103
                              2 | 2013-12-12 19:00:00 | 2013-12-12 22:00:00
                                                                                           Locker room
                                                                                                               nurse
rows in set (0.00 sec)
```

Database Modification Problems

Insert a new row into the Facility table with the facility name "Swimming Pool".

INSERT INTO Facility (FacNo, FacName) VALUES ('F104', 'Swimming Pool');

Insert a new row in the Location table related to the Facility row in modification problem 1.

The new row should have "Door" for the location name.

INSERT INTO Location (LocNo, FacNo, LocName) VALUES ('L107', 'F104', 'Door');

Insert a new row in the Location table related to the Facility row in modification problem 1.

The new row should have "Locker Room" for the location name.

INSERT INTO Location (LocNo, FacNo, LocName) VALUES ('L108', 'F104', 'Locker Room');

```
mysql> INSERT INTO Location (LocNo, FacNo, LocName) VALUES ('L108', 'F104', 'Locker Room');
Query OK, 1 row affected (0.00 sec)
mysql> SELECT * FROM Location;
| LocNo | FacNo | LocName
| L100 | F100 | Locker room
       | F100 | Plaza
| F100 | Vehicle gate
 L101
 L102
       | F101 | Locker room
 L103
 L104
       | F100 | Ticket Booth
 L105
       | F101 | Gate
 L106
       | F100 | Pedestrian gate
       F104 Door
 L107
 L108 | F104 | Locker Room
9 rows in set (0.00 sec)
```

Change the location name of "Door" to "Gate" for the row inserted in modification problem 2.

UPDATE Location SET LocName = 'Gate' WHERE LocNo = 'L107';

```
mysql> UPDATE Location
    -> SET LocName = 'Gate'
    -> WHERE LocNo = 'L107';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM Location;
| LocNo | FacNo | LocName
| L100 | F100 | Locker room
L101
       | F100 | Plaza
| L102 | F100 | Vehicle gate
| L103 | F101 | Locker room
L104 | F100 | Ticket Booth
L105 | F101 | Gate
| L106 | F100 | Pedestrian gate
       | F104 | Gate
 L107
 L108 | F104 | Locker Room
9 rows in set (0.00 sec)
```

Delete the row inserted in modification problem 3.

DELETE FROM Location WHERE LocNo = 'L108';