**Errors and Poor Formatting**

1.

SELECT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, employee, facility, eventplan

WHERE estaudience > 5000

AND eventplan.empno = employee.empno

AND eventrequest.facno = facility.facno

AND facname = 'Football stadium'

AND empname = 'Mary Manager'

**The error in the above SQL statement is Semantic error. Join condition is needed.`**

**CORRECT CODE**

SELECT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, employee, facility, eventplan

WHERE estaudience > 5000

AND eventrequest.eventno = eventplan.eventno

AND eventplan.empno = employee.empno

AND eventrequest.facno = facility.facno

AND facname = 'Football stadium'

AND empname = 'Mary Manager'

2.

SELECT DISTINCT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, eventplan

WHERE estaudience > 4000

AND eventplan.eventno = eventrequest.eventno

GROUP BY eventrequest.eventno, dateheld, status, estcost

**The error in the above SQL statement is Redundancy error. GROUP BY clause is not needed.**

**CORRECT CODE**

SELECT DISTINCT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, eventplan

WHERE estaudience > 4000

AND eventplan.eventno = eventrequest.eventno

3.

SELECT DISTINCT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, employee, facility, eventplan

WHERE estaudience > 5000

AND eventplan.empno = employee.empno

AND eventrequest.facno = facility.facno

AND eventplan.eventno = eventrequest.eventno

AND facname = 'Football stadium'

**The error in the above SQL statement is Redundancy error. Employee table’s inclusion does not make any difference.**

**CORRECT CODE**

SELECT DISTINCT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, facility, eventplan

WHERE estaudience > 5000

AND eventrequest.facno = facility.facno

AND eventplan.eventno = eventrequest.eventno

AND facname = 'Football stadium'

4.

SELECT DISTINCT eventno, dateheld, status, estcost

FROM eventrequest, employee, eventplan

WHERE estaudience BETWEN 5000 AND 10000

AND eventplan.empno = employee.empno

AND eventrequest.eventno = eventplan.eventno

AND empname = 'Mary Manager'

**The error in the above SQL statement is Syntax error. Keyword BETWEEN is misspelled as BETWEN. And also eventno column is ambiguously defined (unqualified column name).**

**CORRECT CODE**

SELECT DISTINCT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, employee, eventplan

WHERE estaudience BETWEEN 5000 AND 10000

AND eventplan.empno = employee.empno

AND eventrequest.eventno = eventplan.eventno

AND empname = 'Mary Manager'

5.

SELECT eventplan.planno, lineno, resname,

numberfld, timestart, timeend

FROM eventrequest, facility, eventplan,

eventplanline, resourcetbl

WHERE estaudience = '10000'

AND eventplan.planno =

eventplanline.planno AND eventrequest.facno

= facility.facno

AND facname =

'Basketball arena' AND

eventplanline.resno = resourcetbl.resno

AND eventrequest.eventno = eventplan.eventno

Correct Code

Poor coding practices in above code:

1. Alignment of different clauses is not good.
2. Placement of the various join condition i.e all the join conditions should be written before other conditions.
3. Numeric entry such as the estaudience field need not be kept in the single quotes.

SELECT eventplan.planno, lineno, resname, numberfld, timestart, timeend

FROM eventrequest, facility, eventplan, eventplanline, resourcetbl

WHERE estaudience = 10000

AND eventplan.planno = eventplanline.planno

AND eventrequest.facno = facility.facno

AND facname = 'Basketball arena'

AND eventplanline.resno = resourcetbl.resno

AND eventrequest.eventno = eventplan.eventno