Module 5 Modification Problem 1

1. Denotation error

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';

Rewritten

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';

1. Repetitiousness

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*;*

Rewritten

SELECT DISTINCT eventrequest.eventno, dateheld, status, estcost

FROM eventrequest, eventplan

WHERE estaudience > 4000

AND eventplan.eventno = eventrequest.eventno*;*

1. Repetitiousness

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'*;*

Rewritten

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'*;*

1. Syntax error

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'*;*

Rewritten

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'*;*

1. Bad clause alignment & irreconcilable constant

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;

Rewritten

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 eventplanline.resno = resourcetbl.resno

AND eventrequest.eventno = eventplan.eventno

AND facname = 'Basketball arena'*;*