SQL Statements with Errors and Poor Formatting

1. Identify errors in the following SQL statement and label errors with error type (syntax, redundancy, or semantic). To simplify your work, the statement has only one type of error. Rewrite the statement to remove the 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'
```

SEMANTIC

```
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 eventplan.eventno = eventrequest.eventno
   AND facname = 'Football stadium'
   AND empname = 'Mary Manager'
```

2. Identify errors in the following SQL statement and label errors with error type (syntax, redundancy, or semantic). To simplify your work, the statement has only one type of error. Rewrite the statement to remove the error.

```
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
```

REDUNDANCY

```
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
```

3. Identify errors in the following SQL statement and label errors with error type (syntax, redundancy, or semantic). To simplify your work, the statement has only one type of error. Rewrite the statement to remove the error.

```
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'
```

```
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'
```

REDUNDANCY

```
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. Identify errors in the following SQL statement and label errors with error type (syntax, redundancy, or semantic). To simplify your work, the statement has only one type of error. Rewrite the statement to remove the errors.

```
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'
```

SYNTAX

```
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. Identify areas in which the SQL statement has poor coding practices and rewrite the statement to improve the coding practices. You do not need to search for errors.

```
    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
```

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';