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In class Assignment 11

 p = (a∧b)∨(b∧c)∨(a∧c)

Write the complete truth table for the predicate.

(1)  List all pairs of rows from your table that satisfy General Active Clause Coverage (GACC) with respect to each clause.

(2)  List all pairs of rows from your table that satisfy Correlated Active Clause Coverage (CACC) with respect to each clause.

(3)  List all pairs of rows from your table that satisfy Restricted Active Clause Coverage (RACC) with respect to each clause.

Predicates = 3 = a∧b, b∧c, a∧c

Clauses = 3 = a,b,c

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | a | b | c | a∧b | b∧c | a∧c | (a∧b)∨(b∧c) | (b∧c)∨(a∧c) | (a∧b)∨(b∧c)∨(a∧c) |
| R1 | T | T | T | T | T | T | T | T | T |
| R2 | T | T | F | T | F | F | T | F | T |
| R3 | T | F | T | F | F | T | F | T | T |
| R4 | T | F | F | F | F | F | F | F | F |
| R5 | F | T | T | F | T | F | T | T | T |
| R6 | F | T | F | F | F | F | F | F | F |
| R7 | F | F | T | F | F | F | F | F | F |
| R8 | F | F | F | F | F | F | F | F | F |

(1)  List all pairs of rows from your table that satisfy General Active Clause Coverage (GACC) with respect to each clause.

Clause a:

R1,R2,R3,R6,R7,R8

Clause b:

R1,R2,R4,R5,R7,R8

Clause c:

R1,R4,R5,R6,R8

(2)  List all pairs of rows from your table that satisfy Correlated Active Clause Coverage (CACC) with respect to each clause.

(3)  List all pairs of rows from your table that satisfy Restricted Active Clause Coverage (RACC) with respect to each clause.