

Integrity Constraints & ERD KEY

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1. C
2. C
3. C
4. C
5. a
6. b
7. a
8. b
9. a, c
10. d
11. C
12. d
13. d
14. b
15. a

16. C
17. d
18. C
19. b
20. C
21. b
22. a
23. b
24. a
25. d
26. a
27. b
28. b
29. a
30. b

31. C
32. C
33. C
34. C
35. d

36. a] 2^{n-1}

$$b] 2^{n-2} + 2^{n-2} - 2^{n-4} = 2^{n-4}(2^2 + 2^2 - 1) \\ = 7 * 2^{n-4}$$

$$c] 2^{n-2} + 2^{n-2} - 2^{n-3} = 3 * 2^{n-3}$$

$$d] 7 * 2^{n-3}$$

$$e] 2^{n-2} + 2^{n-2} + 2^{n-2} - 2^{n-3} - 2^{n-3} - 2^{n-4} + 2^{n-4}$$

$$= 2^{n-3} [2 + 2 + 2 - 1 - 1]$$

$$= 4 * 2^{n-3} = 2^{n-1}$$

$$f] 2^{n-2} + 2^{n-3} + 2^{n-1} - 2^{n-4} - 2^{n-4} - 2^{n-3} + 2^{n-5}$$

$$= 2^{n-5} [8 + 4 + 16 - 2 - 2 - 4 + 1]$$

$$= 21 * 2^{n-5}$$

$$g] 2^n - 1$$

$$37] 44$$

$$38] 3$$

$$39] \textcircled{i} 1 \quad \textcircled{ii} 2$$

$$40] \textcircled{i} 1 \quad \textcircled{ii} 2$$

$$41] 3$$

$$42] \textcircled{i} 4 \quad \textcircled{ii} 5 \quad \textcircled{iii} 15$$

$$43] 2$$

