QUIZ AI-4
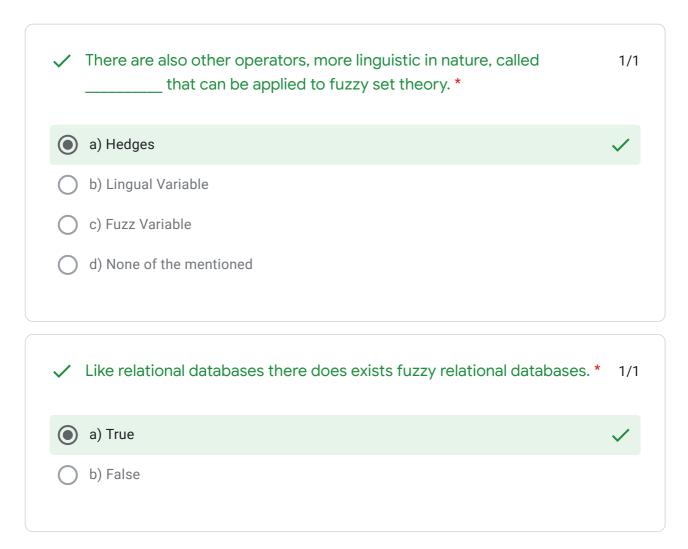
Total points **10/10** ?

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50

✓ Fuzzy logic is a form of *   1/1

- ○ a) Two-valued logic
- ○ b) Crisp set logic
- ● c) Many-valued logic   ✓
- ○ d) Binary set logic

✓ Traditional set theory is also known as Crisp Set theory. *   1/1

- ● a) True   ✓
- ○ b) False

✓ The truth values of traditional set theory is _____ and that of fuzzy 1/1
set is _____ *

- (●) a) Either 0 or 1, between 0 & 1   ✓
- ( ) b) Between 0 & 1, either 0 or 1
- ( ) c) Between 0 & 1, between 0 & 1
- ( ) d) Either 0 or 1, either 0 or 1

✓ Fuzzy logic is extension of Crisp set with an extension of handling the   1/1
concept of Partial Truth. *

- (●) a) True   ✓
- ( ) b) False

✓ The room temperature is hot. Here the hot (use of linguistic variable is   1/1
used) can be represented by _____ *

- (●) a) Fuzzy Set   ✓
- ( ) b) Crisp Set
- ( ) c) Fuzzy & Crisp Set
- ( ) d) None of the mentioned

✓ The values of the set membership is represented by *   1/1

○ a) Discrete Set

◉ b) Degree of truth ✓

○ c) Probabilities

○ d) Both Degree of truth & Probabilities

✓ Fuzzy logic is usually represented as *   1/1

○ a) IF-THEN-ELSE rules

◉ b) IF-THEN rules ✓

○ c) Both IF-THEN-ELSE rules & IF-THEN rules

○ d) None of the mentioned

✓ Fuzzy Set theory defines fuzzy operators. Choose the fuzzy operators from the following. *   1/1

○ a) AND

○ b) OR

○ c) NOT

◉ d) All of the mentioned ✓

✓ There are also other operators, more linguistic in nature, called _____ that can be applied to fuzzy set theory. * 1/1

- ◉ a) Hedges ✓
- ○ b) Lingual Variable
- ○ c) Fuzz Variable
- ○ d) None of the mentioned

✓ Like relational databases there does exists fuzzy relational databases. * 1/1

- ◉ a) True ✓
- ○ b) False

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