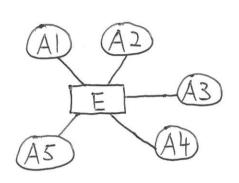
$$C_r^n = \frac{n!}{(n-r)!r!}$$

no. of combinations of choosing r out of n items/things

$$\begin{cases} m! = m \cdot Lm - 1) \cdot \dots \cdot 2 - 1 \\ 0! = 1 \\ e \cdot 9 \cdot 3! = 3 \cdot 2 \cdot 1 = 6 \end{cases}$$

"I" pronounces factorial



Assumption: Al or A2 can uniquely identify

a record / row/instance

How many Assignment? Project Exam Help

1-attribute: https://powcoder.com Al, A2

2-attribute: C<sup>2</sup>C<sup>3</sup> WeChat powcoder {A1, A3}, {A1, A5}

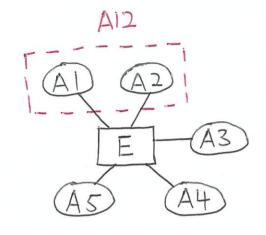
{A2, A3}, {A2, A4}, {A2, A5}, {A1, A2}

3 - attribute:  $C_1^2 C_2^3 + C_2^2 C_1^3 = 2 \cdot 3 + 1 \cdot 3 = 9$ 

4 - attribute:  $C_1^2 C_3^3 + C_2^2 C_2^3 = 2 \cdot 1 + 1 \cdot 3 = 5$ 

 $5 - \text{attribute}: C_{5}^{5} = \frac{5!}{(5-5)!5!} = \frac{5!}{0!5!} = 1$ 

-. In total, 2+7+9+5+1=24



## Assumption:

Each record/row/instance can be uniquely identified by A1 & A2.

How many superkeys?

1-attribute: 0

A12

2 - attriAssignment Project Exam Help

3 - attribute: C! C3 = 1.3 = 3 https://powcoder.com/A1, A2, A43

## Add WeChat powcoder

4 - attribute: C! C3 = 1.3 = 3 {A1. A2. A3. A43, {A1. A2, A3. A5}

{A1, A2, A4, A5}

5 - attribute: C!, C3 = 1.1 = 1 {A1, A2, A3, A4, A5}

:. In total, 1+3+3+1 = 8