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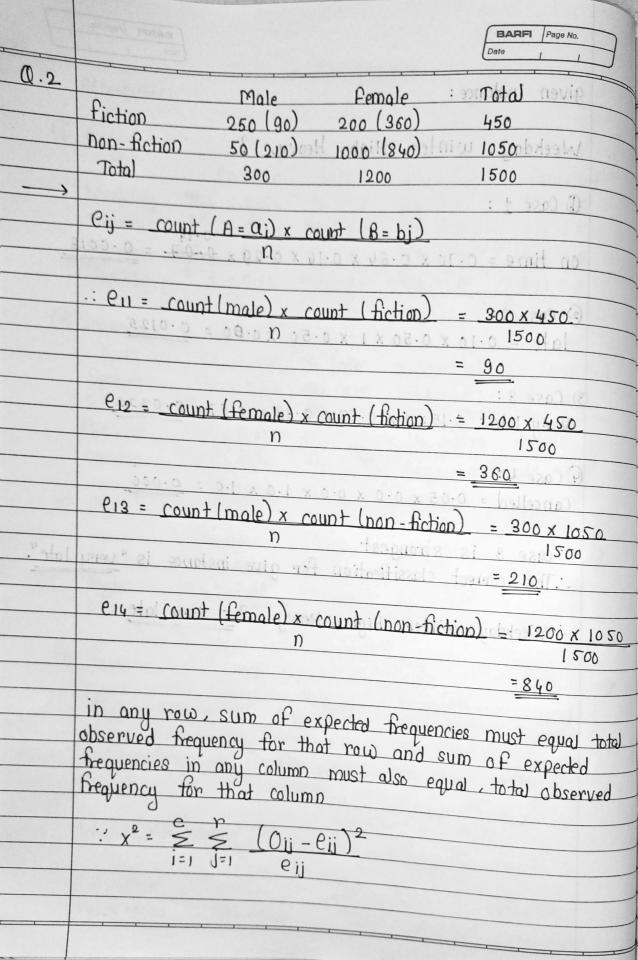
: 29 tudiattA

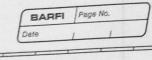
|).1_ | Air-traffic data problem | | | | | | | | |
|------|--|------------|------------|---------------|--------------|-----|--|--|--|
| - | Dataset: | | | | : you | U | | | |
| | Cancelle | Very late | 9-101 | | Ť | | | | |
| | | | Fog | Panulle | Classol | 17 | | | |
| | Days | 0 = 8/0 | 6/2 = 0.65 | 11.0 = U1/2 | uphautae | | | | |
| | Weekday | Spring | None | None | on time? | | | | |
| | Weekday | Winter | None 10.1 | 1 Islightul 2 | on time | | | | |
| | Weekday | Winter | | | on time | | | | |
| | Holiday | Winter | High | Slight | Seasostol | 9 | | | |
| 69 | Saturday | Summer | Normal | None | on time | | | | |
| | Weekday | Autumn | Normal | | | | | | |
| | Holiday | Summer | High | Elstight 110 | on time | | | | |
| | Sunday | 88. Summer | Normal | None | on time | | | | |
| | Weekday | Winter | High | Heavy | very late | | | | |
| | Weekday | Summer | None | Slight | on time | | | | |
| | Saturday | Spring | High | Heavy | concelled | 8 | | | |
| 69 | Weekday | Summer | High | slight | on time | | | | |
| | Weekday | winter | Normal | None 113 | late not | | | | |
| | Weekday | Summer | Highel | eNone all | | | | | |
| | Weekday | winter | Normal | Heavy Me | very late | | | | |
| | Saturday | Autumn | High | slight | on time | | | | |
| | Neekdou | Autumn | | | on time | (H) | | | |
| b | Holiday | Spring | Normal | slight a) | on time | | | | |
| | Weekday | E8 Spring | Normal | | | | | | |
| | | Spring | Normal | | on time | | | | |
| _ | 1= 1/1 | 2/3 = 0.01 | 2/20=010 | | | | | | |
| _ | A = [day, season, fog, rain] | | | | | | | | |
| _ | 3, 3, 3 | | | | | | | | |
| | C = [on time, late, very late, cancelled]tilidadora roing | | | | | | | | |
| _ | | | | | | | | | |
| | Cancelled | 1916 | Very | late | emit - ao | | | | |
| - 0 | 110x -0.0. | 31.6 - | 10 | 1 0 | AC-0= 00[U]] | | | | |

| | - ALL VALLE | | | | Date |
|-----|--------------------|--------------|------------|----------------------|--------------|
| | | | gament-1 | 118811 | |
| | Attributes: | | | | gamb aniAl I |
| 0 | | | | e data probl | Dataset: |
| | Day: | | | | |
| | 0 | On-time | late | Very late 3/3 = 1 | 0/1 = 0 |
| | Weekday | 9/14 = 0.64 | 1 1/2 =015 | 3/3 = 1 | 11: -1 |
| | Saturday | 2/14= 0.14 | 0/2 = 0.0 | 0/3 = 0 | 1/1 = 1 |
| | Sunday | 1/14 = 0107 | 0/2 = 0 | 9/3/170 | 1100/1950 |
| | Holiday | 2/14 = 0.14 | | 0/3 = 0 | 011 = 0 |
| | on time | None | 9001 | Winter | Weekday |
| 2 | Season: | Slight | doit | Winter | Holiday |
| | on time | | lonfate | movery late | Cancelled |
| | Spring | 4/14 = 01-29 | | 9/3/= 0 | 1.0/1 = 0 |
| | Summer | 6)14 = 00 43 | | 9913150 | 071050 |
| | Autumna | | 0/2/5/0 | 13150.33 | 0/11=0 |
| | Winter | 2/14=0014 | 2/2/7/1 | 2/3 = 0.67 | 1108/19/210 |
| | on time | Slight | None | Symmer | Meekday |
| 3 | Fog to an | Недуц | doiH | Spring | Saturday |
| | | On-time | late | Veny-late | un Cancelled |
| | None | | 0/2/701 | 0/3 FUO | 1010/do = 0 |
| | Hight 110 | 4114 = 0:29 | 1/2 =0:5 | 1/3 7 0 33 | 1 Fletthon |
| | Normal | | 1/2 -0.5 | 2/3 7.0.67 | 05/10/1 |
| | on Jime | Slight | doiH | Butump | Salurday |
| (4) | Rain:10 | Heavy | None | amutua | Meekdan |
| | on time | | lateroil | Verylate | Cancelled |
| | Slight 6/14 = 0.43 | | 112 = 0.5 | 113 = 0.33 | 10/190=10 |
| | | | 112 = 0.5 | 013 = 0 | 11.9/19950 |
| | Heavy 2/ | 14 = 0.14 | 012 =0 | 2/3 = 0.67 | 1/1 = 1 |
| | 0 | | Lains up | 11, season, fo | 06] = A |
| | | | | | |
| | t (0) = 0 | | | | |
| | on-time | | | | |
| | | late | Very | | Cancelled |
| | 14/20 = 0.70 | 2/20 = 0 -1 | 3/20 | = 0.15 | 1/20=0.05 |

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|--|----------------|--------|
| given instance: 9/pmg 3/087 | | 1.2.0 |
| 050 (90) 200 (360) 450 | Piction | |
| Weekday, winter, High, Heavy, ? | non-Retico | |
| 300 1900 1500 | [ofo] | |
| O Case 1: | **** | (|
| on time = 0.70 x 0.04 x 0.14 x 0.05 9 0. | (eii = (oun | |
| on time = 0.70 x 0.64 x 0.14 x 0.29 x | = 0.001 | 3 |
| 2 Case 2: (mitot) tallo x (shoult | | |
| late = 0.10 x 0.50 x 1 x 0.50 x 0.00 = | 0.0 | |
| 08 = | | |
| 3 Case 3: | | |
| Very late = 0.15 x 1 x 0.67 x 0.33 x 0.67 = | 0.0222 | |
| 1500 | | |
| (Case 4: 8 | | |
| Cancelled = 0.05 x 0.0 x 0.0 x 1.0 x 1.0 = | 0.000 | |
| of (male) x count (non-fiction) = 800 x 1050 | U00 = 819 | |
| case 3 is strongest | | |
| The correct classification for give insta | nce is "very | late". |
| Weekday, winter High Heavy, ? = ve | nu late 19 | |
| 60721 | | |
| 018= | | |
| | | |
| is sum of expected frequencies must equal to | | |
| a and column that ope eding they opened | | |
| amula tott as | | |
| s(ii9-ii0) \$ 3 | 9 . 4 | |
| 1 1 1 1 1 1 1 1 | | |
| | | |
| | | |





 $\frac{50-210)^2}{210} + \frac{(200-360)^2}{360}$ $\Rightarrow : x^2 = (250 - 90)^2$ + (1000 - 840)2

= 284.44+ 121.90 + 71.11 + 30.48

= 507.93

degree of freedom.

(2-1)(2-1)=1 for I degree of freedom, the x2 value needed to reject hypothesis at 0.001 significance level is 10.828

our value is above this we can reject the hypothesis that gender and preferred reading are independent and conclude that two attributes are strongly correlated for given group of people.