3	PAGE No.
	DA Assignment 1
Que.	Light wolf of the light of the
17.	We have to apply Naive Bayle's Classifier to map input tuples into accurate to
	to map input tuples into accurate to
	Classes.
16	We know that table class has 4 diff.
	values, we need to find all the prior
	2 posterios, probabilities.
	Figure 2 * of the state of
	P(On Time) = 14 P (Late) = 2
Di 35	20 20
	P(Very Late) = 3. P (Cancelled) = 1
1,0	20 20
1/3	
17	De need to calculate posterior probalitities.
	probalitities.
	For attribute -> Day?
MCE HELL	P (Weekday / On Time) = 9
1 5	06:11
	P (Weekday / Late) = 1
	0 (11 11 11 11 11 11 11 11 11 11 11 11 11
	P (Weekday / Very Late) = 3
	0()
	P (Weckday / Cancelled) = 04
1 1	
1201 4 7	TITE Code I sale of the sale o
	The In similar way we can calculate posterior probabilities for all other value of attribute.
1 1	posterior probabilities for all other
	value of attribute.
- 11	

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DATE	//	

The second secon					
Day	On Time	Late	Very Late	Cancelled	Ī
Weekday	9/14/	14101/2	3/2	0/1	-
Saturday	2/14	0/2	0/3	10/,	-
Sunday	1/14	0/2	0/3	0/,	-
Holiday	2/14	1/2	0/3	9/1	-
					4

For Attribute -, 'Season'.

ŀ			g = A			
	Season	On Time	Late	Very Late	Cancelled	
	Spring	6/14	0/2	0/3	V ₁	
	Summer	6/14	0/2	0/3	0/1	
	Autumn	2/14	0/2	1/3	0/1	-
	Winter	2/14	2/2	2/3	%	
Г						

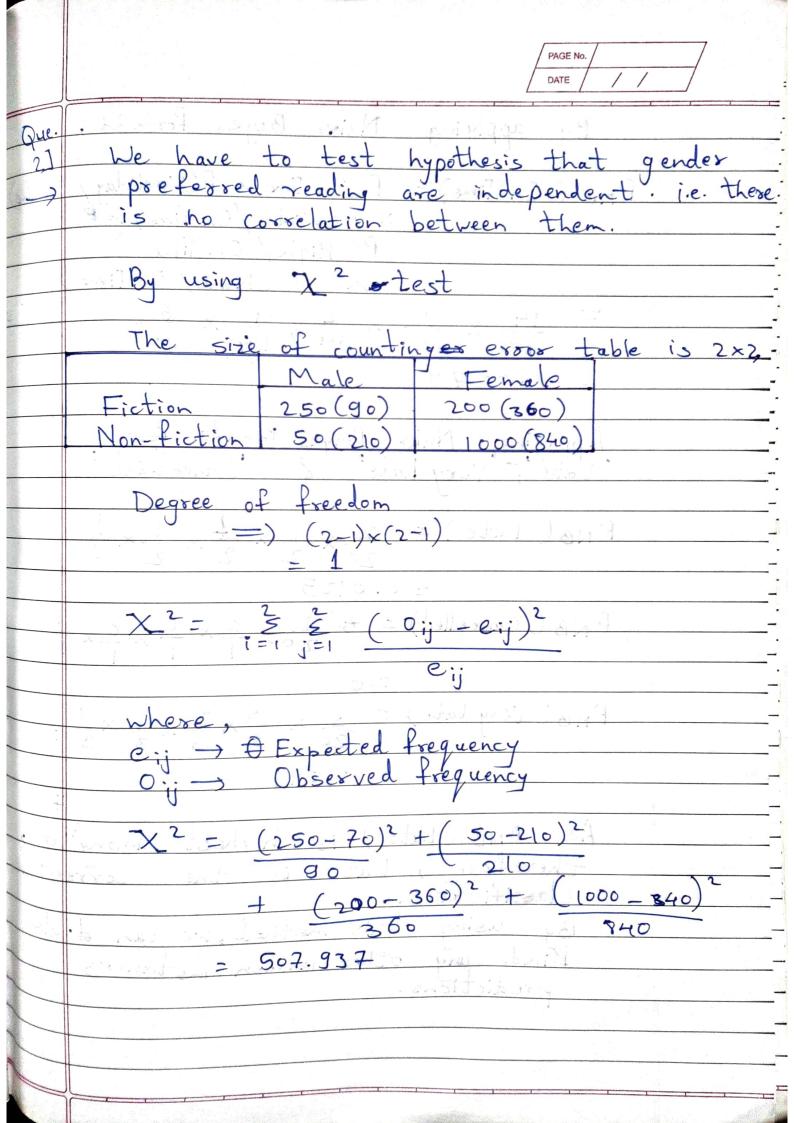
For Attribute - Fog

Fog	On Time	Late	Very Late	Cancelled	
None	5/14	0/2	0/3	0/1	
High	4/14	1/2	130 V30 V	9 1/1	
Normal	5/14	1/2	2/3	9/1	

For Attribute - Rain?

Ł			CHIEF THE PARTY OF	The second secon		Acres marie
	Rain	On Time	Late	Very Late	Cancelled	
	None	6/14	1/2	1/3 .	0/1	
	Slight	6/14:	1/2	0/3	0/1	
	Heavy	2/14	0/2	2/3	1/1	
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	By applying Naive Bayes Formula,
-1.1	PNB (On Time) = P(On Time) x P(Vecekday / On Time) x P(Winter/On Time) x P
	P(High/On Time)
	= 14 × 9 × 2 × 4 × 6
	= 0.0079
	Applying Naive Bayes formula for Late, Very Late' & 'Cancelled'
	PNB(Late) = $\frac{2}{20} \times \frac{1}{2} \times \frac{2}{2} \times \frac{1}{2} \times \frac{1}{2}$
	= 0.0125
	PNB (cancelled) = 3 1 x 0 x 0 x 1
	PNB (Very Late) = 3 × 3 × 2 × 1 × 1 / 20 × 3 × 3 × 3 × 3
	= 0.011
	As PNB (Late) is highest among all, therefore, late is the correct
3	Classification.
	By using this method, we can d-also Find any other unseen instances predictions.
	predictions.



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