2.C. 0-8x(20+200)+0.2x(20+200+200) 2260

- 3, a (i) R1 ← & gender="F" AND profit > 1000000 (Actor × Role × Movie) Answer - TAName (R1)
  - RI = Oyear >= 2009 AND year <= 2019 AND gender = 'M' (Actor & Role alii) W Movie)

Answer - AID. GrounT(MID), Sum(Pay) (RI)

- select AName from ACTOR natural join ROLE natural join MOVIE Where Gender = "F" AND Profit > 100000
  - (ii) Select ALD, COUNTIMED), Sum (Pay) from ACTOR natural join ROLE natural join MOVIE where Gender = "M" AND Year >= 2009 AND Year <= 201) group by ADD.
- c.
  (i) ACTOR: 5000/100 = 50 blocks if Actor outler:

  # Block T TO X 1000 + 50 = 25050 ROLE: (00000/100=1000 placks # Dish seek 2x1 507 = 50
  if Bole outter: # Block [ (000) ] x 50 + 1000 2 26000 # Disk seek 2x [ (000) ] = 1000
  - (ii) # Block: [ 50 ] ×1000 +50>1050 4 Dish seek:

a(i) a 3 bd 4 bde 3 closed: [a] [c][d] [bd][de] [cd][bde]

b 4 de 4

c 5 be 3

e 7 cd 4

confidence(b) de)=  $\frac{3}{8}$ ref both. confidence(b) de)=  $\frac{3}{8}$ confidence(b) de)=  $\frac{3}{8}$ 

ordin support (b) de) = 
$$\frac{3}{8}$$
 (if  $t = \frac{3}{8} \times \frac{6}{8} = 1.5$ )
ref book. confidence (b) de) =  $\frac{3}{8}$ 

- b. (i) O C1=10=10 C2>20:20 C3>30:30605060 D 01=10=10 C2=20:20,30 C2=45:40,50,60 3 C1=10:(0 (2=15:20.30 C3=50: 60.
  - (ii) SSE: \(\frac{2}{2}\frac{2}{2}\mu\left(\hat{1}\frac{1}{2}\) = 0+\(\frac{1}{2}\frac{1 BSS: Elbilog(ci's)) = (x((0-32)+ 5x(22-32)+ 3x(20-32)=1200

5. A(i)  $RNRNN|P=\frac{1}{5}$   $R=\frac{1}{5}$ A(ii) RNRNNNNNRR $t(1+\frac{1}{5}+\frac{3}{9}+\frac{6}{6})$ 

bii) In isolated-term spelling correction, we attempt to correct a single query at a time.

blii) Directly compare each string in V with query string q, store its corresponding edit distance, then choose a minmum distance.

C.