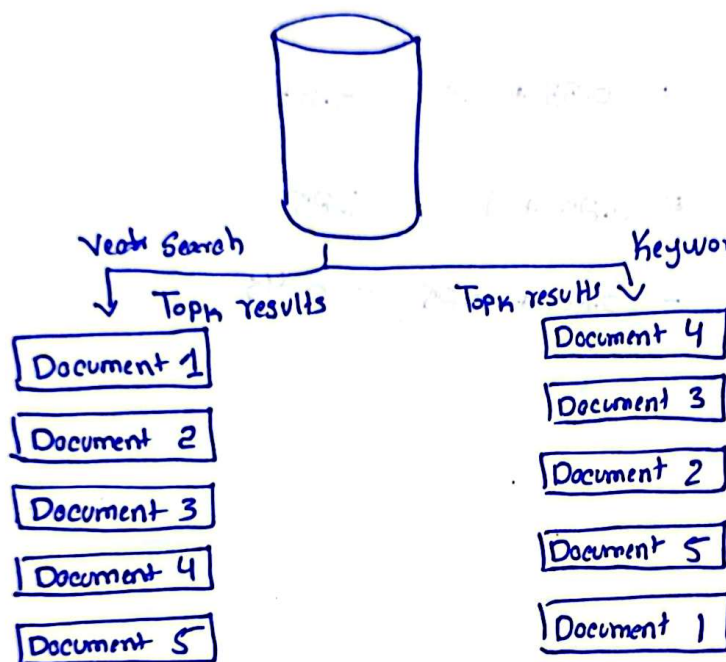


Reciprocal Rank

→ Reciprocal Rank Fusion in Hybrid System



Final Score

$$= \sum \frac{1}{(C + R_d)}$$

$C = \text{Constant} \Rightarrow \text{Depends on various database}$
1—60

$$= \sum \frac{1}{(R_d)}$$

D1	$1/1 = 1$
D2	$1/2 = 0.5$
D3	$1/3 = 0.33$
D4	$1/4 = 0.25$
D5	$1/5 = 0.20$

D4	$= 1$
D3	$= 0.5$
D2	$= 0.33$
D5	$= 0.25$
D1	$= 0.20$

$$[\text{Document 1}] = 1 + 0.20 = 1.20$$

$$[\text{Document 2}] = 0.5 + 0.33 = 0.83$$

$$[\text{Document 3}] = 0.33 + 0.5 = 0.83$$

$$[\text{Document 4}] = 0.25 + 1 = 1.25$$

$$[\text{Document 5}] = 0.20 + 0.25 = 0.45$$