A-

Query = (72, 117, 191)

IDFs Query = (5.2, 5.2, 2.9)

Relevantes = (5, 15, 25, 36)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 5 | | 2 | 15 | | 3 | 17 | | 4 | 25 | | 5 | 29 | | 6 | 32 | | 7 | 36 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 17 | | 2 | 26 | | 3 | 5 | | 4 | 15 | | 5 | 25 | | 6 | 29 | | 7 | 32 | | Precisión= 4/7 = 0.57  Recall = 4/4 = 1 |

B-

Query = (147,195,196)

IDFs Query = (5.2, 2.1, 2.2)

Relevantes = (1,4, 6, 9, 14, 17, 19, 21, 23, 29, 36, 37, 38)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 1 | | 2 | 4 | | 3 | 6 | | 4 | 9 | | 5 | 14 | | 6 | 19 | | 7 | 21 | | 8 | 29 | | 9 | 36 | | 10 | 37 | | 11 | 38 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 4 | | 2 | 9 | | 3 | 19 | | 4 | 21 | | 5 | 37 | | 6 | 38 | | 7 | 14 | | 8 | 36 | | 9 | 1 | | 10 | 6 | | 11 | 29 | | Precisión= 11/11 = 1  Recall = 11/13 = 0.85 |

C-

Query = (55, 56, 73, 139, 141, 142, 147)

IDFs Query = (3.7, 5.2, 5.2, 2.9, 2.7, 5.2, 5.2)

Relevantes = (2, 3, 11, 12, 13, 16, 20, 22, 24, 26, 28, 33, 34)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 2 | | 2 | 8 | | 3 | 11 | | 4 | 13 | | 5 | 14 | | 6 | 19 | | 7 | 20 | | 8 | 22 | | 9 | 24 | | 10 | 27 | | 11 | 32 | | 12 | 33 | | 13 | 34 | | 14 | 35 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 22 | | 2 | 14 | | 3 | 19 | | 4 | 32 | | 5 | 8 | | 6 | 13 | | 7 | 24 | | 8 | 27 | | 9 | 35 | | 10 | 2 | | 11 | 11 | | 12 | 20 | | 13 | 33 | | 14 | 34 | | Precisión= 8/14 = 0.57  Recall = 8/13 = 0.62 |

D-

Query = (147, 179, 180)

IDFs Query = (5.2, 2.9, 5.2)

Relevantes = (7, 27, 30, 31, 35)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 7 | | 2 | 13 | | 3 | 27 | | 4 | 30 | | 5 | 35 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 7 | | 2 | 13 | | 3 | 27 | | 4 | 30 | | 5 | 35 | | Precisión= 4/5 = 0.8  Recall = 4/5 = 0.8 |

E-

Query = (147, 182, 184)

IDFs Query = (5.2, 3.7, 4.2)

Relevantes = (8, 10, 18, 32)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 8 | | 2 | 10 | | 3 | 18 | | 4 | 32 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 8 | | 2 | 10 | | 3 | 18 | | 4 | 32 | | Precisión= 4/4 = 1  Recall = 4/4 = 1 |

Consultas mejoradas

A-

Query = (72, 191)

IDFs Query = (5.2, 2.9)

Relevantes = (5, 15, 25, 36)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 5 | | 2 | 15 | | 3 | 25 | | 4 | 29 | | 5 | 32 | | 6 | 36 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 36 | | 2 | 5 | | 3 | 15 | | 4 | 25 | | 5 | 29 | | 6 | 32 | | Precisión= 4/6 = 0.67  Recall = 4/4 = 1 |

B-

Query = (195, 196, 198)

IDFs Query = (2.1, 2.2, 4.2)

Relevantes = (1, 4, 6, 9, 14, 17, 19, 21, 23, 29, 36, 37, 38)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 1 | | 2 | 4 | | 3 | 6 | | 4 | 9 | | 5 | 12 | | 6 | 14 | | 7 | 17 | | 8 | 19 | | 9 | 21 | | 10 | 29 | | 11 | 36 | | 12 | 37 | | 13 | 38 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 4 | | 2 | 9 | | 3 | 19 | | 4 | 21 | | 5 | 37 | | 6 | 38 | | 7 | 12 | | 8 | 17 | | 9 | 14 | | 10 | 36 | | 11 | 1 | | 12 | 6 | | 13 | 29 | | Precisión= 12/13 = 0.92  Recall = 12/13 = 0.92 |

C-

Query = (73, 139, 141)

IDFs Query = (5.2, 2.9, 2.7)

Relevantes = (2, 3, 11, 12, 13, 16, 20, 22, 24, 26, 28, 33, 34)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 2 | | 2 | 8 | | 3 | 11 | | 4 | 13 | | 5 | 20 | | 6 | 22 | | 7 | 24 | | 8 | 27 | | 9 | 33 | | 10 | 34 | | 11 | 35 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 8 | | 2 | 13 | | 3 | 24 | | 4 | 27 | | 5 | 35 | | 6 | 2 | | 7 | 11 | | 8 | 20 | | 9 | 22 | | 10 | 33 | | 11 | 34 | | Precisión= 8/11 = 0.73  Recall = 8/13 = 0.62 |

D-

Query = (179)

IDFs Query = (2.9)

Relevantes = (7, 27, 30, 31, 35)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 7 | | 2 | 13 | | 3 | 27 | | 4 | 30 | | 5 | 35 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 7 | | 2 | 13 | | 3 | 27 | | 4 | 30 | | 5 | 35 | | Precisión= 4/5 = 0.8  Recall = 4/5 = 0.8 |

E-

Query = (182, 184)

IDFs Query = (3.7, 4.2)

Relevantes = (8, 10, 18, 32)

|  |  |  |
| --- | --- | --- |
| Modelo Booleano | Modelo Vectorial |  |
| |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 8 | | 2 | 10 | | 3 | 18 | | 4 | 32 | | |  |  | | --- | --- | | Ranking | ID Doc | | 1 | 8 | | 2 | 10 | | 3 | 18 | | 4 | 32 | | Precisión= 4/4 = 1  Recall = 4/4 = 1 |

Con las modificaciones que se hicieron en las queries se puede observar una mejora en algunos puntos de la precisión y en solo un caso de Recall (Query B). Teniendo en cuenta esta ultima Query se debe especificar que se desea maximizar si es la precisión o el recall, una vez definido esto se puede saber si se mejoro o empeoro los resultados.

Se pude entender que las queries originales son de una calidad aceptable y algunas excelentes.