1.

|  |  |  |  |
| --- | --- | --- | --- |
| DOCUMENTS | | | |
| PK | doc | INT | NOT NULL |
|  | text | LONGTEXT | NOT NULL |
|  | title | TINYTEXT | NOT NULL |
|  | num\_chars | INT | NOT NULL |
|  | date | DATE | NOT NULL |
| FK | id\_cat | INT | NOT NULL |

|  |  |  |  |
| --- | --- | --- | --- |
| CATEGORIES | | | |
| PK | id\_cat | INT | NOT NULL |
|  | name | TINYTEXT | NOT NULL |

|  |  |  |  |
| --- | --- | --- | --- |
| TERMS | | | |
| PK | term | TINYTEXT | NOT NULL |
|  | num\_chars | INT | NOT NULL |

|  |  |  |  |
| --- | --- | --- | --- |
| DOC\_TERM\_PAIRS | | | |
| PFK | term | TINYTEXT | NOT NULL |
| PFK | doc | INT | NOT NULL |
|  | term\_count | INT | NOT NULL |

2.

a.

SELECT COUNT(DISTINT doc) FROM Documents

b.

SELECT d.text, d.title FROM Documents d

JOIN Categories c ON d.id\_cat = c.id\_cat WHERE c.name=”Sports”

c.

SELECT DISTINT term FROM TERMS

d.

SELECT SUM(p.term\_count)

FROM DOCUMENTS d

JOIN DOC\_TERM\_PAIRS ON d.doc = p.doc

WHJERE d.title = “Arizona”

e.

SELECT SUM(p.term\_count)

FROM DOCUMENTS d

JOIN DOC\_TERM\_PAIRS p ON d.doc = p.doc

JOIN CATEGORIES c ON d.id\_cat = c.id\_cat

WHERE c.name = “Seasons”

f.

SELECT SUM(term\_count) FROM DOC\_TERM\_PAIRS WHERE term=”months”

g.

SELECT d.title, SUM(p.term\_count)

FROM DOCUMENTS d

JOIN DOC\_TERM\_PAIRS p ON d.doc = p.doc

GROUP BY d.title

ORDER BY SUM(p.term\_count)

LIMIT 1

h.

SELECT term , SUM(term\_count)

FROM DOC\_TERM\_PAIRS

GROUP BY term

ORDER BY SUM(term\_count)

LIMIT 1

3.

[nicholas-a-karle/Document-Database-Program (github.com)](https://github.com/nicholas-a-karle/Document-Database-Program)