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)
```