

Introduction to

Databases with SQL

Querying

Contents: The payment of grain and dates as temple stipends for twelve months.

[Nisannu]	Aire	Simannu	Diazu	Abu	Ululu	naphar	Tashritu	Arahshanna	Kislumu	Tebitu	Shabatu	Adaru	naphar ski'um	naphar	a-wi-lu-tum	MU-BI-im
						sha i-na qat	mIJu	nabi	mab-	rum			sha qat libbi abulli i-na libbi she'i sha Zarat- IMki u suluppu mahrum			
	72qa	72qa	72qa	72qa	72qa	2gur 72qa	72qa	72qa	72qa	72qa	72qa	72qa	2gur 72qa	4gur 144qa	KAL	mSin-da-na-gu, "overseer."
	72qa	72qa	72qa	72qa	72qa	2gur 72qa	72qa	72qa	72qa	72qa	72qa	72qa	2gur 72qa	4gur 144qa	KAL	mIp-pa-e-a u(ditto)
5	72qa	72qa	72qa	72qa	72qa	2gur 72qa	72qa	72qa	72qa	72qa	72qa	72qa	2gur 72qa	4gur 144	KAL	mIdinanni-Shamash, "keeper."
	30qa	30qa	30qa	30qa	30qa	1 gur	30qa	30qa	30qa	30qa	30qa	30qa	1 gur	2 gur	SAL or I	Tam-bi-Da-du, "his wife."
	24qa	24qa	24qa	24qa	24qa	144 qa	24qa	24qa	24qa	24qa	24qa	24qa	144 gur	1gur 108qa	SAL-TUR	Da-ti-lu-sha, "his daughter", "seeress."
	18qa	18qa	18qa	18qa	18qa	108 qa									KAL-TUR	mArdu-Nusku, "his son," ultu Tashritu harranu.
	12qa	12qa	12qa	12qa	12qa	72 qa	12qa	12qa	12qa	12qa	12qa	12qa	72 qa	144 qa	KAL-TUR-TUR	mNusku-ki-na-u-sur, "his [grand] son."
10	6qa	6qa	6qa	6qa	6qa	36 qa	6qa	6qa	6qa	6qa	6qa	6qa	36 qa	72 qa	TUR-GAB	mGab-mar-to-ash, "his son."
	72qa	72qa	72qa	72qa	72qa	2gur 72qa	72qa	72qa	72qa	72qa	72qa	72qa	2gur 72qa	4gur 144qa	KAL	mA-na-dShe-mi-i-at-kal, "grinder."
	48qa	48qa	48qa	48qa	48qa	1gur 108qa	48qa	48qa	48qa	48qa	48qa	48qa	1gur 108qa	3gur 36qa	SAL or I	Ish-tar-be-li-u-s-ri.
															KAL-TUR	mUshab-shi-uz-ni-a-na-ili, "her son," harranu.
	24qa	24qa	24qa	24qa	24qa	144 qa	24qa	24qa	24qa	24qa	24qa	24qa	144 qa	1gur 108qa	KAL-TUR-TUR	mDu-uk-ki-in-ilu, hSHI(?) "her [grand] son."
15	30qa	30qa	30qa	30qa	30qa	1 gur	30qa	30qa	30qa	30qa	30qa	30qa	1 gur	2 gur	SAL-TUR	Ba-su-un-du, "her daughter," "seeress."
	12qa	12qa	12qa	12qa	12qa	72 qa	12qa	12qa	12qa	12qa	12qa	12qa	72 qa	144 qa	SAL-TUR-GAB	Hu-la-la-tum, "her daughter."
	6qa	6qa	6qa	6qa	6qa	36 qa	6qa	6qa	6qa	6qa	6qa	6qa	36qa	72 qa	TUR-GAB	I-na-rish-Marduk-di-nu, "her son."
	48qa	48qa	48qa	48qa	48qa	1gur 108qa	48qa	48qa	48qa	48qa	48qa	48qa	1gur 108qa	3gur 36qa	SAL or I	Bilit-balatu-t(ish(-ish))
	18qa	18qa	18qa	18qa	18qa	108 qa	18qa	18qa	18qa	18qa	18qa	18qa	108 qa	1gur 36qa	KAL-TUR-TUR	mLul-la-mar-Nusku, "her son," "weaver."
20	12qa	12qa	12qa	12qa	12qa	72 qa	12qa	12qa	12qa	12qa	12qa	12qa	72 qa	144 qa	SAL-TUR-GAB	Rab-sha-dIsh-ha-ra, "her daughter."
	6qa	6qa	6qa	6qa	6qa	36 qa	6qa	6qa	6qa	6qa	6qa	6qa	36 qa	72 qa	SAL-TUR-GAB	Di-ni-ili-lu-mur, "her daughter."
	48qa	48qa	48qa	48qa	48qa	1gur 108qa	48qa	48qa	48qa	48qa	48qa	48qa	1gur 108qa	3gur 36qa	SAL or I	Mi-sha-ri-tum.
	48qa	48qa	48qa	48qa	48qa	1gur 108qa	48qa	48qa	48qa	48qa	48qa	48qa	1gur 108qa	3gur 36qa	SAL or I	I-na-Ak-ka-di-rab-bal.

Song of Solomon

Goodnight Moon

Pat Conroy

Antoine de Saint-Exupéry

Prince of Tides

Le Petit Prince

The Overstory

F. Scott Fitzgerald

The Great Gatsby

Toni Morrison

Richard Powers

Frankenstein

Mary Shelley

Margaret Wise Brown

title	author
Song of Solomon	Toni Morrison
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The Overstory	Richard Powers
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Prince of Tides	Pat Conroy

Apple Numbers

Google Sheets

Microsoft Excel

...

Scale

Scale

Frequency

Scale

Frequency

Speed

Database

A collection of data organized for creating, reading, updating, and deleting.

Database Management System

Software via which you can interact with a database.

MySQL

Oracle

PostgreSQL

SQLite

...

SQL

A language via which you can create, read, update, and delete data in a database.

Structured Query Language

A language via which you can create, read, update, and delete data in a database.

SQL

A language via which you can create, read, update, and delete data in a database.

Querying

What's the most-liked post on our platform?

Is our number of daily users growing or shrinking?

Which songs are most like the song
a user just played?



**The
Booker
Prizes**

Visual Studio Code

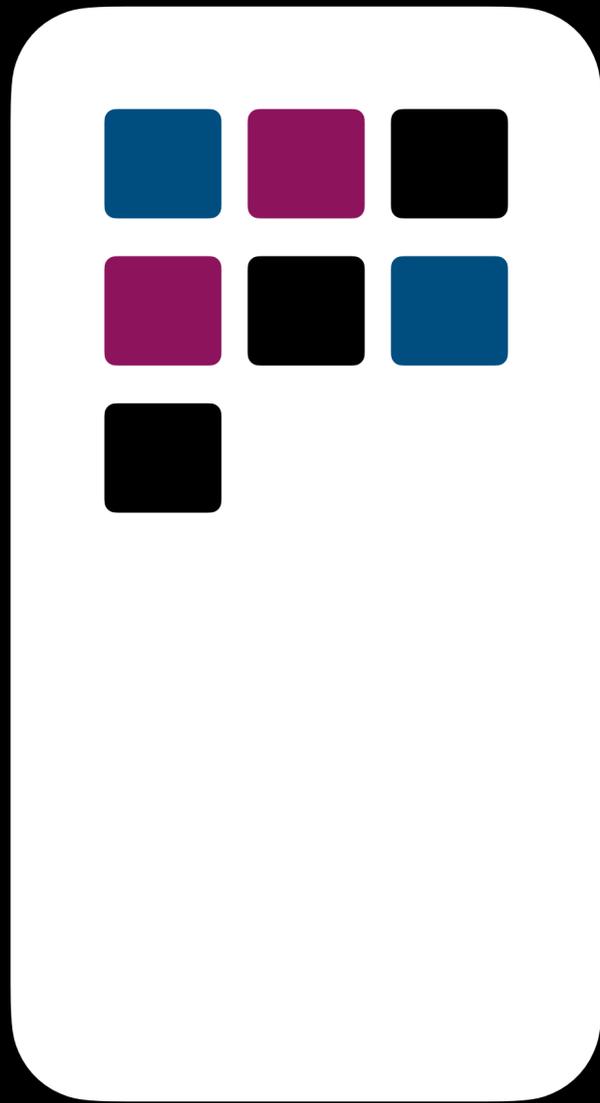
SQLite

...

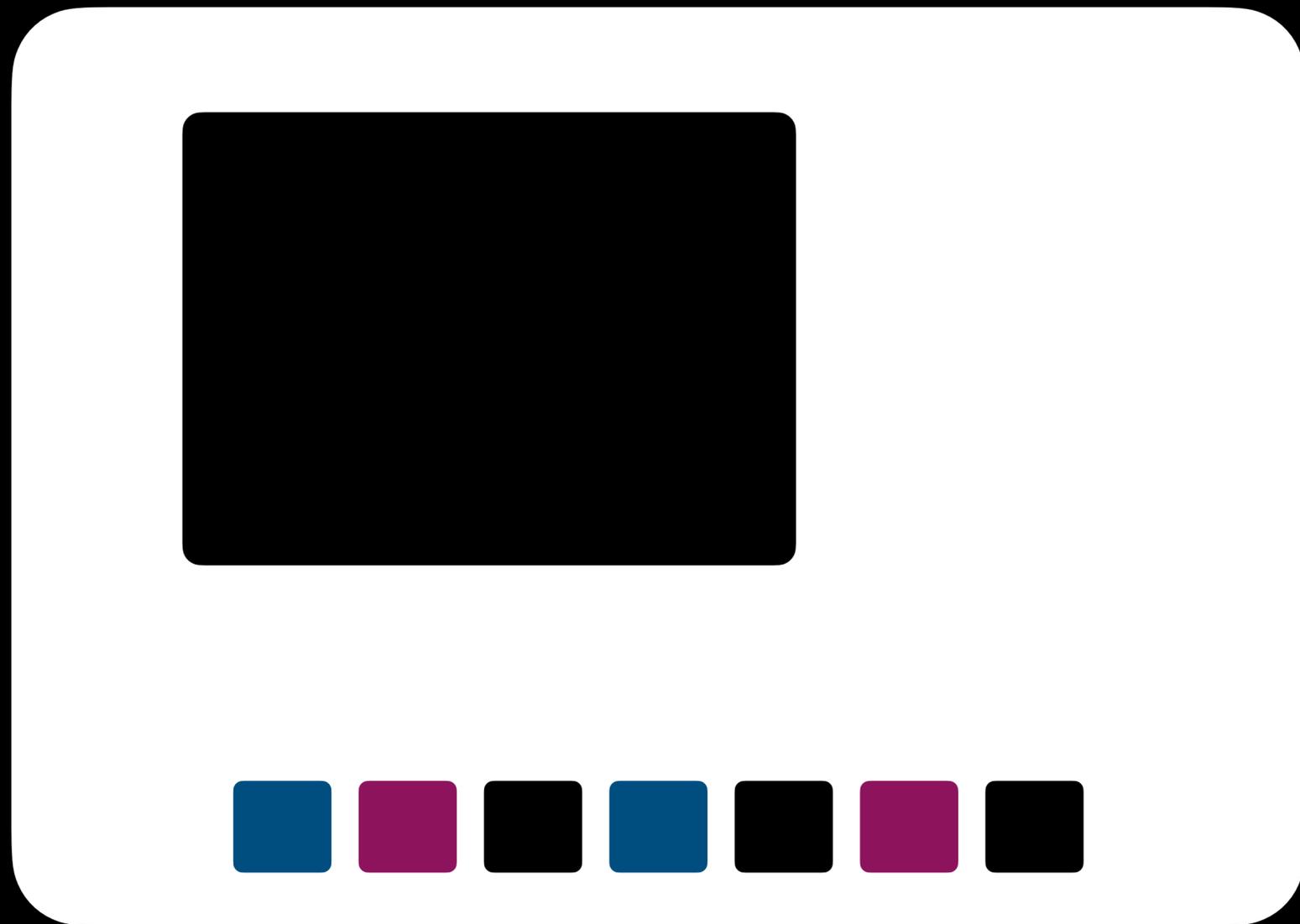
VS Code

SQLite

...



Phones



Desktop



Websites

```
sqlite3 FILENAME
```

What data is in our database?

SELECT

LIMIT

OFFSET

WHERE

=

! =

<>

NOT

Style

```
SELECT "title" FROM "longlist"  
WHERE "author" = 'Fernanda Melchor';
```

```
SELECT "title" FROM "longlist"  
WHERE "author" = 'Fernanda Melchor';
```

```
SELECT "title" FROM "longlist"  
WHERE "author" = 'Fernanda Melchor';
```

NULL

IS NULL

IS NOT NULL

LIKE

%

—

AND

OR

()

\wedge

\parallel

\vee

\parallel

\wedge

\vee

BETWEEN ... AND ...

ORDER BY

ORDER BY ... ASC

ORDER BY ... DESC

COUNT

AVG

MIN

MAX

SUM

ROUND

DISTINCT

.quit

```
SELECT column FROM table;
```

```
SELECT COUNT(column) FROM table;
```

```
SELECT AVG(column) FROM table;
```

```
SELECT column FROM table  
WHERE condition;
```

```
SELECT column FROM table  
WHERE column = value;
```

```
SELECT column FROM table  
WHERE column LIKE pattern;
```

```
SELECT column FROM table  
WHERE condition0 AND condition1;
```

```
SELECT column FROM table  
WHERE condition0 OR condition1;
```

```
SELECT column FROM table  
WHERE condition  
ORDER BY column;
```

```
SELECT column FROM table  
WHERE condition  
ORDER BY column  
LIMIT number;
```

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Databases with SQL

Querying