

# Banco de Dados e Relacionamento

## Rais - Dia 4

Felipe Fernandes    Akme-re Almeida

# Agenda

- 1 Banco de Dados
  - First Subsection

## Conceito

- Coleção de dados armazenados em uma máquina.
- Base que pode ser acessada por softwares para consultas e atualizações.

# Outline

- 1 Banco de Dados
  - First Subsection

# Banco de Dados

## Exemplos

PostgreSQL



ORACLE<sup>®</sup>  
DATABASE



# Ferramenta

## SQLiteMan - Ferramenta gráfica para gerenciar o Banco

The screenshot displays the SQLiteMan application window. On the left, the 'Database' pane shows a tree view of the 'main' database, including tables (12), views (0), columns (7), indexes (3), system indexes (0), triggers (0), connections, dcerpcbinds, dcerpcrequests, dcerpcserviceops, dcerpcservices, and downloads (4). The main area is divided into a query editor and a results pane. The query editor shows a SQL query with the following text:

```

24 ORDER BY
25 strftime('%Y-%m-%d', connection_timestamp, 'unixepoch') ASC,
26 COUNT(*) DESC,
27 av_result ASC

```

Below the query editor, the 'Duration: 26.005 seconds' and 'Col: 22 Row: 27/27' are displayed. The results pane shows a table with 7 rows and 5 columns: 'whenever', 'total', 'hits', 'cut', and 'av\_result'. The data is as follows:

	whenever	total	hits	cut	av_result
1	2009-11-30	86877	85958	98.94	Net-Worm.Win32.Kido.ih
2	2009-11-30	86877	398	0.46	Trojan.Win32.Buzus.cqjn
3	2009-11-30	86877	274	0.32	Net-Worm.Win32.Kolab.ffa
4	2009-11-30	86877	273	0.31	-
5	2009-11-30	86877	207	0.24	Backdoor.Win32.Nepoe.ml
6	2009-11-30	86877	193	0.22	Trojan.Win32.Buzus.crh1
7	2009-11-30	86877	152	0.17	Trojan.Win32.Buzus.crgf

At the bottom, the 'Query OK' status and 'Row(s) returned: 145' are shown, along with the SQL query text:

```

SELECT
    strftime('%Y-%m-%s-%d', connection_timestamp, 'unixepoch') AS whenever,
    total,

```

# SQLite 3

## Default Rails

- Banco de Dados Simples.
- Apenas para Estudo.
- Não deve ser usado em projetos robustos.
- Banco de dados localizado em um unico arquivo.

# Banco de Dados

## Conceitos Iniciais

- Bancos Possuem o que?
  - Usuários - Autenticação
  - Schemas - Organização
  - Tabelas - Armazenamento



# Summary

- The **first main message** of your talk in one or two lines.
- The **second main message** of your talk in one or two lines.
- Perhaps a **third message**, but not more than that.
- Outlook
  - Something you haven't solved.
  - Something else you haven't solved.

# For Further Reading I



A. Author.

*Handbook of Everything.*

Some Press, 1990.



S. Someone.

On this and that.

*Journal of This and That*, 2(1):50–100, 2000.