MySQL Indexes

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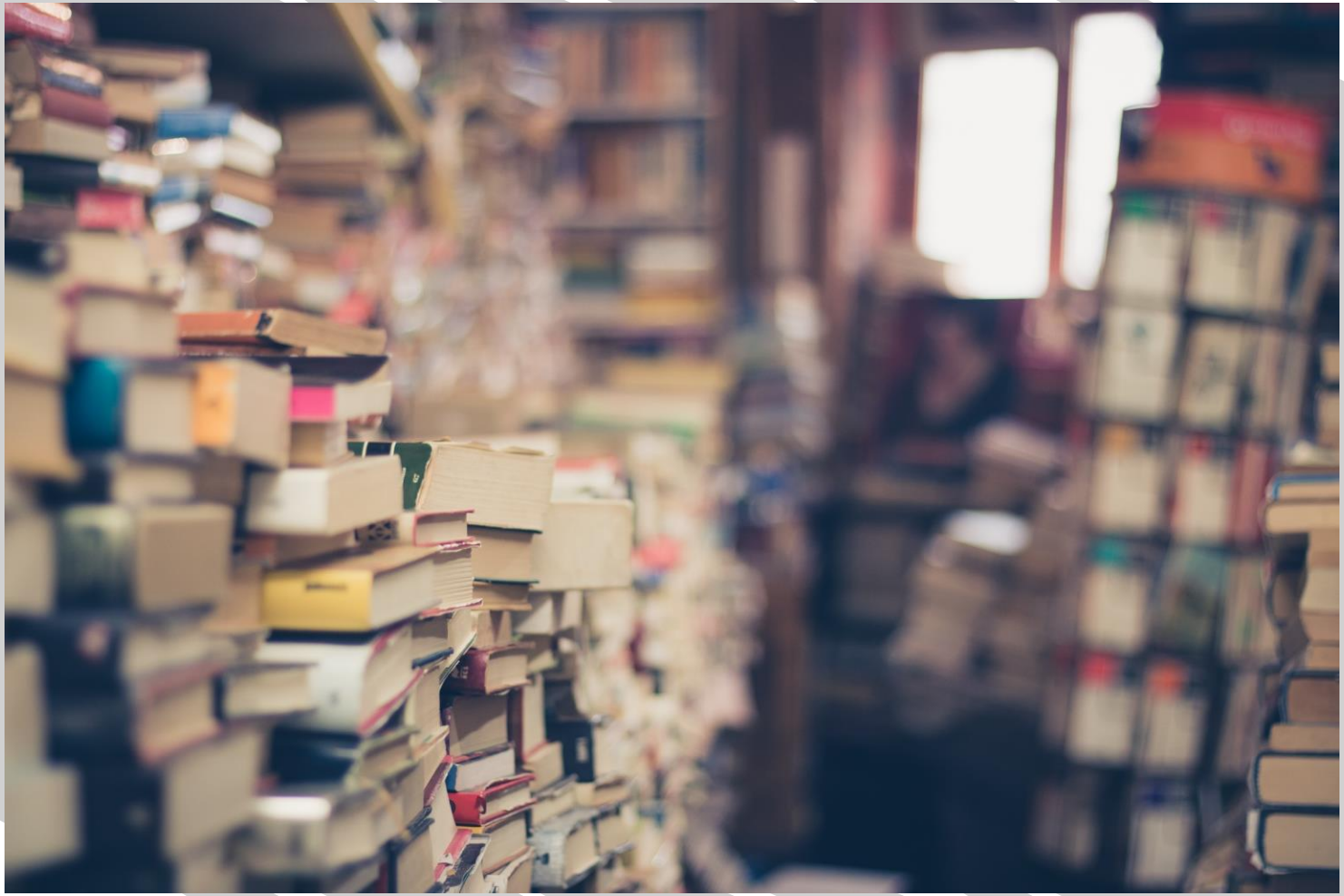
MySQL Indexes



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MySQL Indexes

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- the index of a table functions like the index of a book

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  - data is taken from a column of the table and is stored in a certain order in a distinct place, called an index

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MySQL Indexes

- the index of a table functions like the index of a book

  - data is taken from a column of the table and is stored in a certain order in a distinct place, called an index

- your datasets will typically contain 100,000+ or even 1,000,000+ records

  - the *larger* a database is, the *slower* the process of finding the record or records you need

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MySQL Indexes

- we can use an index that will increase the speed of searches related to a table

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```sql
CREATE INDEX index_name
ON table_name (column_1, column_2, …);
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the parentheses serve us to indicate the column names on which our search will be based

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CREATE INDEX index_name
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```

these must be fields from your data table you will search frequently

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MySQL Indexes

- composite indexes

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- applied to *multiple* columns, not just a single one

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composite indexes

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SQL

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CREATE INDEX index_name
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```

- carefully pick the columns that would optimize your search!

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MySQL Indexes

- *primary* and *unique keys* are MySQL indexes

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MySQL Indexes

- *primary* and *unique keys* are MySQL indexes

  - they represent columns on which a person would typically base their search

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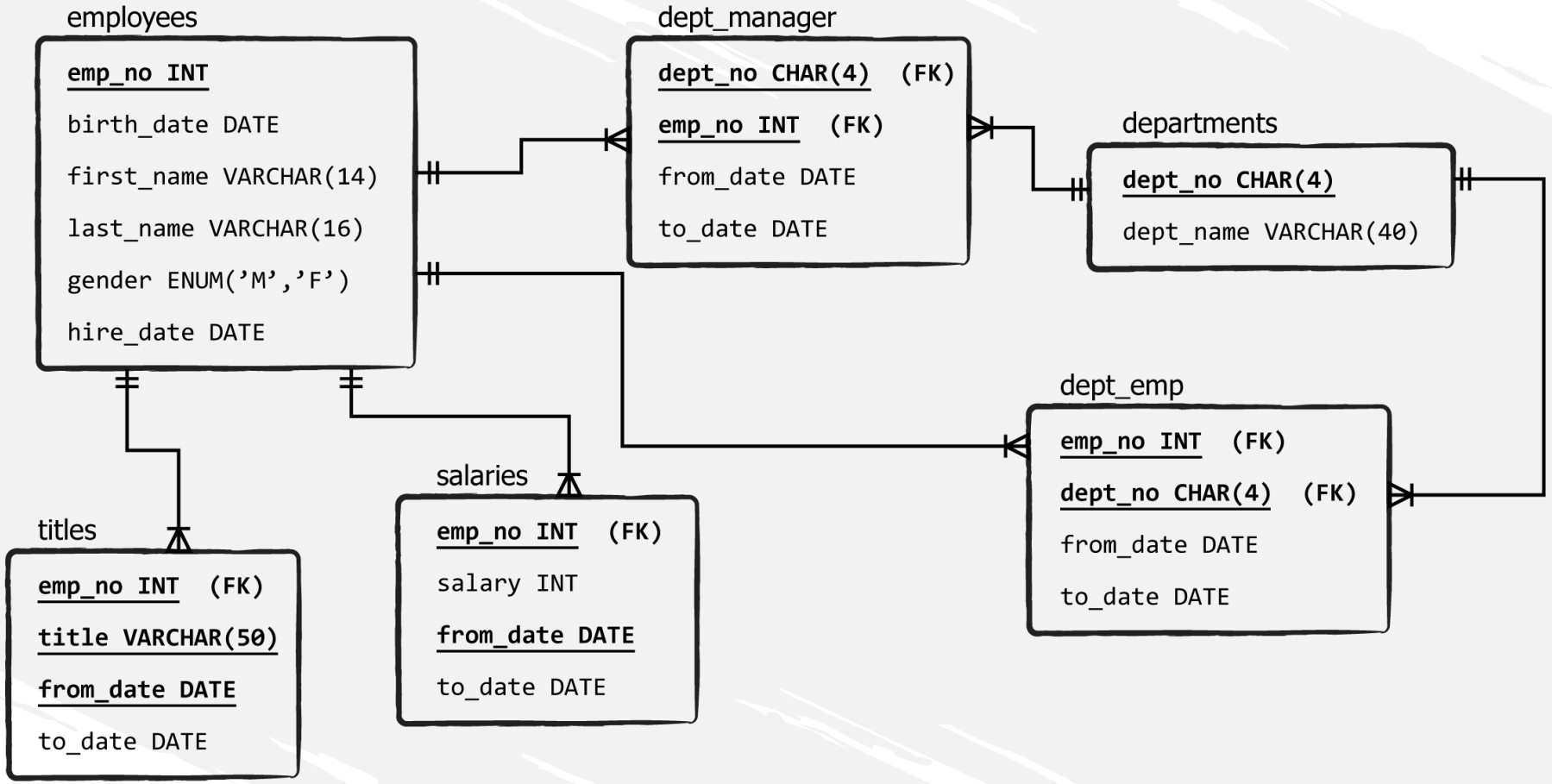
MySQL Indexes



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MySQL Indexes

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small datasets	the costs of having an index might be higher than the benefits

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MySQL Indexes

SQL specialists are always aiming for a good balance between the *improvement of speed search* and the *resources used for its execution*

small datasets	the costs of having an index might be higher than the benefits
large datasets	a well-optimized index can make a *positive* impact on the search process

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