

# My research report

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# 1 MySQL database schema

This is a small example on how to mix LaTeX formatted text and MySQL queries to build a PDF research report.

We use the default MySQL database as an example. Remember that the COLS tag (below) is mandatory, the number of letters corresponds to the number of columns in the output table. Each letter governs how the corresponding column should be aligned:

- *l* = left align column text
- *c* = center column text
- *r* = right align column text
- *X* = expand column to make table fit textwidth

Hence, the COLS tag for the below table will be *Xllccc*.

## 1.1 Table *db*

The below table describes the contents of MySQL's *db* table.

Field	Type	Null	Key	Default	Extra
Host	char(60)	NO	PRI		
Db	char(64)	NO	PRI		
User	char(32)	NO	PRI		
Select_priv	enum('N','Y')	NO		N	
Insert_priv	enum('N','Y')	NO		N	
Update_priv	enum('N','Y')	NO		N	
Delete_priv	enum('N','Y')	NO		N	
Create_priv	enum('N','Y')	NO		N	
Drop_priv	enum('N','Y')	NO		N	
Grant_priv	enum('N','Y')	NO		N	
References_priv	enum('N','Y')	NO		N	
Index_priv	enum('N','Y')	NO		N	
Alter_priv	enum('N','Y')	NO		N	
Create_tmp_table_priv	enum('N','Y')	NO		N	
Lock_tables_priv	enum('N','Y')	NO		N	
Create_view_priv	enum('N','Y')	NO		N	
Show_view_priv	enum('N','Y')	NO		N	
Create_routine_priv	enum('N','Y')	NO		N	
Alter_routine_priv	enum('N','Y')	NO		N	
Execute_priv	enum('N','Y')	NO		N	
Event_priv	enum('N','Y')	NO		N	
Trigger_priv	enum('N','Y')	NO		N	

## 2 MySQL users

You may define both main sections, subsections and subsubsections in comment blocks. The only rule is that there must be one and only one LaTeX block per query.

### 2.1 Table *users*

The below table lists the users on current mysql instance. Please note that column names cannot contain special LaTeX characters and punctuation. Use naming aliases!

User	Host	PasswordChange
root	localhost	2017-03-05 08:02:27
mysql.sys	localhost	2017-03-05 08:02:20
root	%	2017-03-05 08:02:27