Dokumentation af MySQL database

```
PS C:\Users\Rasmus\Documents\system-integration\projects\Kea_SOFT_System_Integration_2024_Spring> npx mro
? Is your database hosted on localhost. Yes
? Type your database name. customers
? Type your database username. root
? Type your database password. [hidden]
? Choose an output format. HTML Page
? Select the key-value pairs you want. (Press <space> to select, <a> to toggle all, <i> to invert selection,
 and <enter> to proceed)
>(*)  field     : column name
? Select the key-value pairs you want.  field    : column name,  type     : int/varchar(255) etc.,  default  :
null, timestamp etc.,  null     : YES/NO,  key      : PRI/MUL etc.,  keyTo    : Array of references
'table.columnName' if key is a Foreign Key,  extra    : AUTO_INCREMENT etc.,  typeJS   : Number/String etc.
 about type casting to JavaScript: https://www.npmjs.com/package/mysql#type-casting
? Select the tables you want to document. customers, order_details, orders, products
```

From terminal:

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
TABLE:    customers
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

(index)	field	type	null	key	extra	typeJS	keyTo
0	'id'	'int'	'NO'	'PRI'	'auto_increment'	'Number'	undefined
1	'first_name'	'varchar(50)'	'NO'			'String'	undefined
2	'last_name'	'varchar(50)'	'NO'			'String'	undefined
3	'email'	'varchar(100)'	'NO'	'UNI'		'String'	undefined
4	'phone'	'varchar(15)'	'YES'			'String'	undefined
5	'address'	'varchar(255)'	'YES'			'String'	undefined
6	'city'	'varchar(50)'	'YES'			'String'	undefined
7	'state'	'varchar(50)'	'YES'			'String'	undefined
8	'zip_code'	'varchar(10)'	'YES'			'String'	undefined

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
TABLE:    order_details
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

(index)	field	type	null	key	extra	typeJS	keyTo
0	'id'	'int'	'NO'	'PRI'	'auto_increment'	'Number'	undefined
1	'order_id'	'int'	'NO'	'MUL'		'Number'	['orders.id']
2	'product_id'	'int'	'NO'	'MUL'		'Number'	['products.id']
3	'quantity'	'int'	'NO'			'Number'	undefined
4	'price'	'decimal(10,2)'	'NO'			'String'	undefined

Generated HTML

customers

customers

field	type	null	key	extra	typeJS	keyTo
id	int	NO	PRI	auto_increment	Number	
first_name	varchar(50)	NO			String	
last_name	varchar(50)	NO			String	
email	varchar(100)	NO	UNI		String	
phone	varchar(15)	YES			String	
address	varchar(255)	YES			String	
city	varchar(50)	YES			String	
state	varchar(50)	YES			String	
zip_code	varchar(10)	YES			String	

order_details

field	type	null	key	extra	typeJS	keyTo
id	int	NO	PRI	auto_increment	Number	
order_id	int	NO	MUL		Number	orders.id
product_id	int	NO	MUL		Number	products.id
quantity	int	NO			Number	
price	decimal(10,2)	NO			String	

orders

field	type	null	key	extra	typeJS	keyTo
id	int	NO	PRI	auto_increment	Number	
customer_id	int	NO	MUL		Number	customers.id
order_date	datetime	NO			String	
status	varchar(50)	YES			String	
total	decimal(10,2)	YES			String	

products

field	type	null	key	extra	typeJS	keyTo
id	int	NO	PRI	auto_increment	Number	
name	varchar(100)	NO			String	
description	text	YES			String	
price	decimal(10,2)	NO			String	
stock	int	NO			Number	

Generated JSON

```json
{
    "schema": [
        {
            "table": "customers",
            "columns": [
                {
                    "field": "id",
                    "type": "int",
                    "null": "NO",
                    "key": "PRI",
                    "extra": "auto_increment",
                    "typeJS": "Number"
                },
                {
                    "field": "first_name",
                    "type": "varchar(50)",
                    "null": "NO",
                    "typeJS": "String"
                },
                {
```

```json
                    "field": "last_name",
                    "type": "varchar(50)",
                    "null": "NO",
                    "typeJS": "String"
                },
                {
                    "field": "email",
                    "type": "varchar(100)",
                    "null": "NO",
                    "key": "UNI",
                    "typeJS": "String"
                },
```

Knex.js is a "batteries-included" query builder for PostgreSQL, MySQL, SQLite3, Oracle, Amazon Redshift amongst others