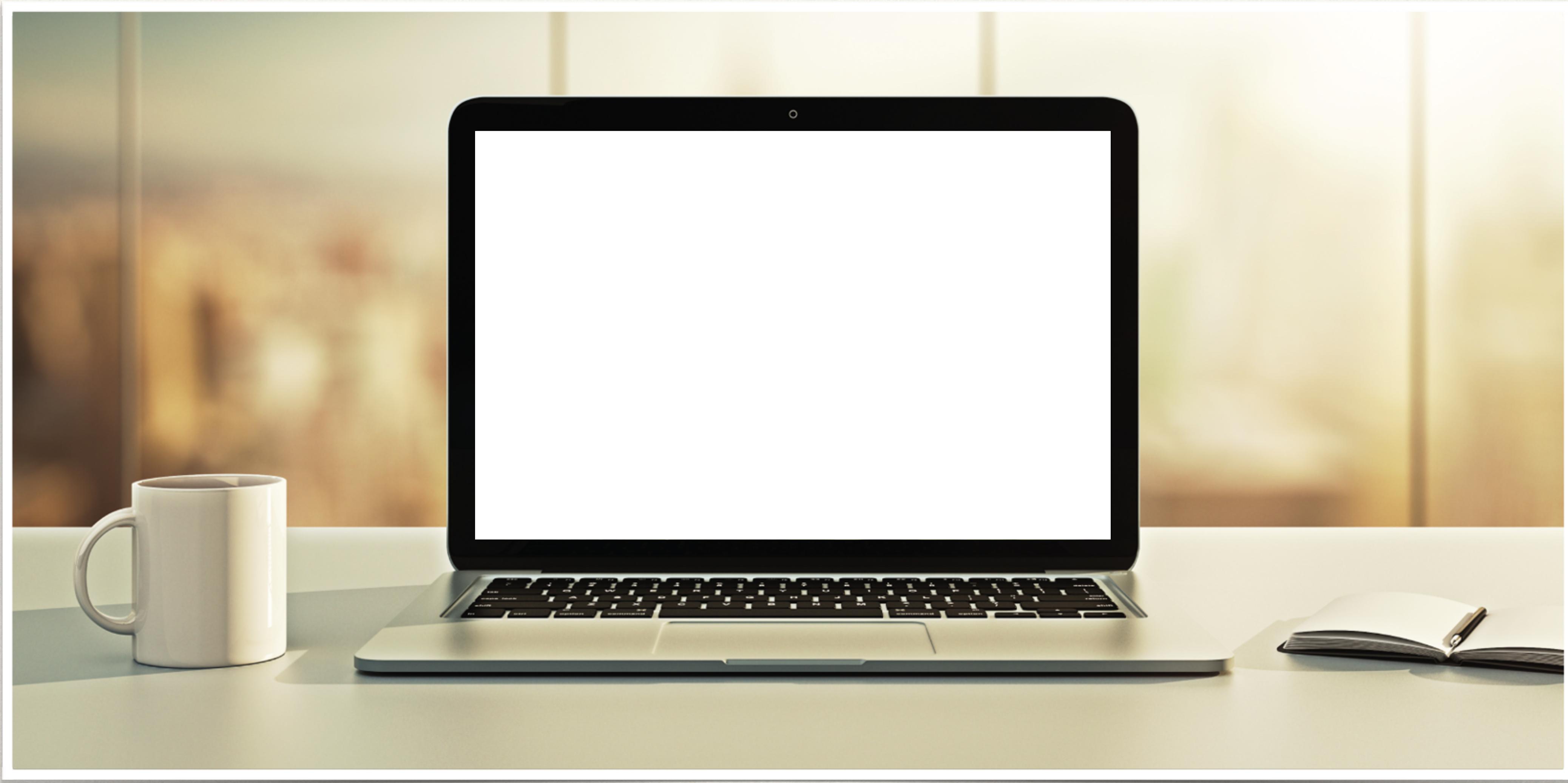
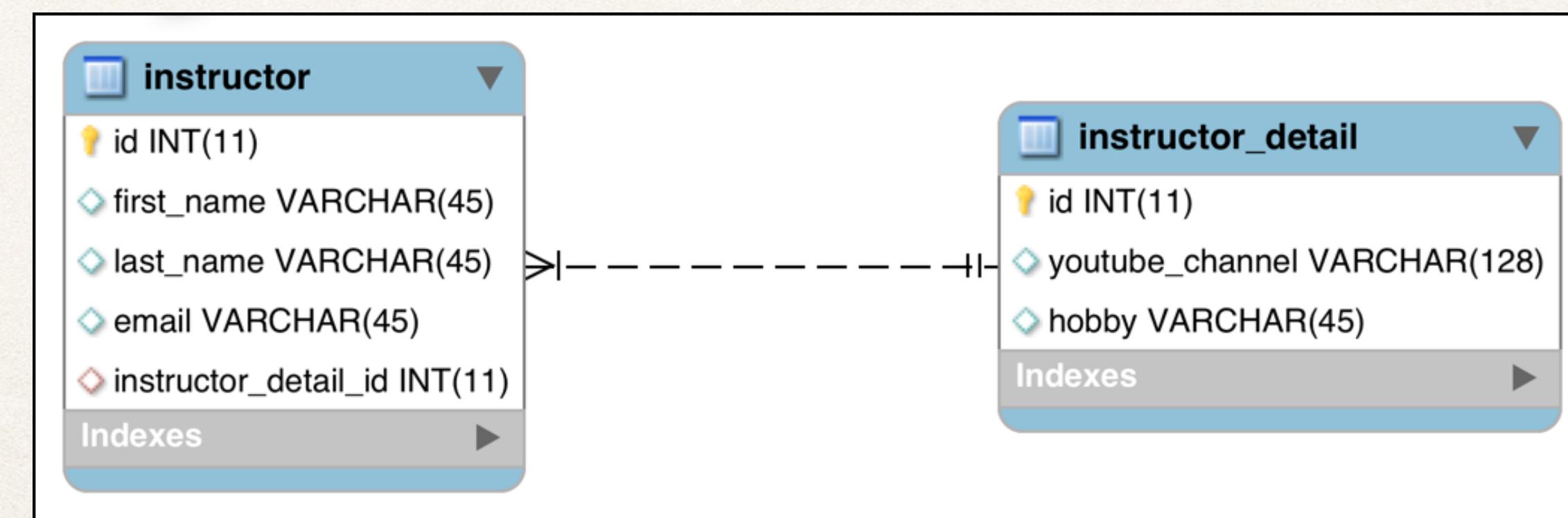
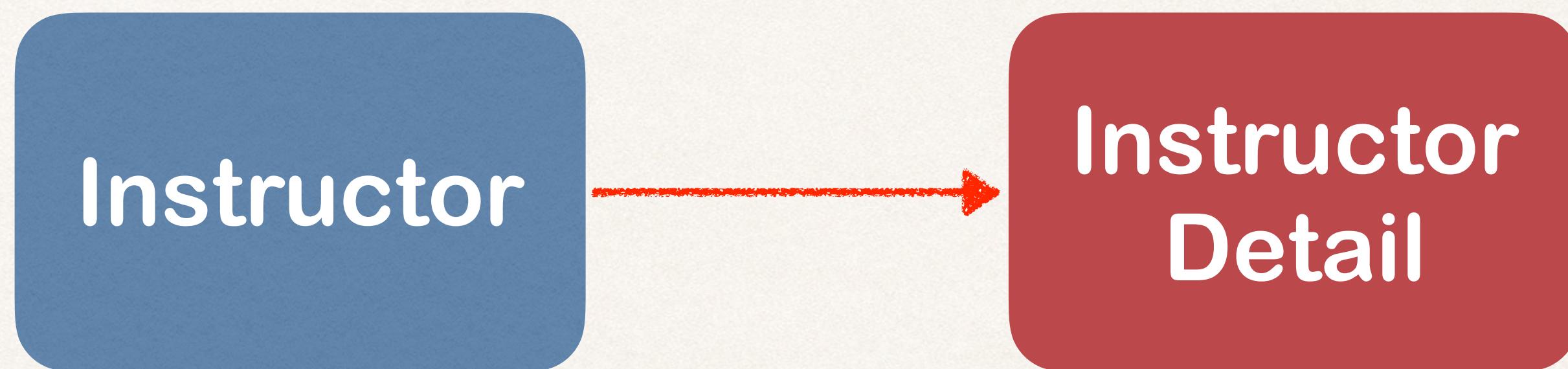


Hibernate One-to-One



One-to-One Mapping

- An instructor can have an “instructor detail” entity
 - Similar to an “instructor profile”



Uni-Directional



Development Process: One-to-One

Step-By-Step

1. Prep Work - Define database tables
2. Create InstructorDetail class
3. Create Instructor class
4. Create Main App

table: instructor_detail

File: create-db.sql

```
CREATE TABLE `instructor_detail` (
    `id`      int(11)  NOT NULL AUTO_INCREMENT,
    `youtube_channel` varchar(128) DEFAULT NULL,
    `hobby`      varchar(45) DEFAULT NULL,
);

...
```

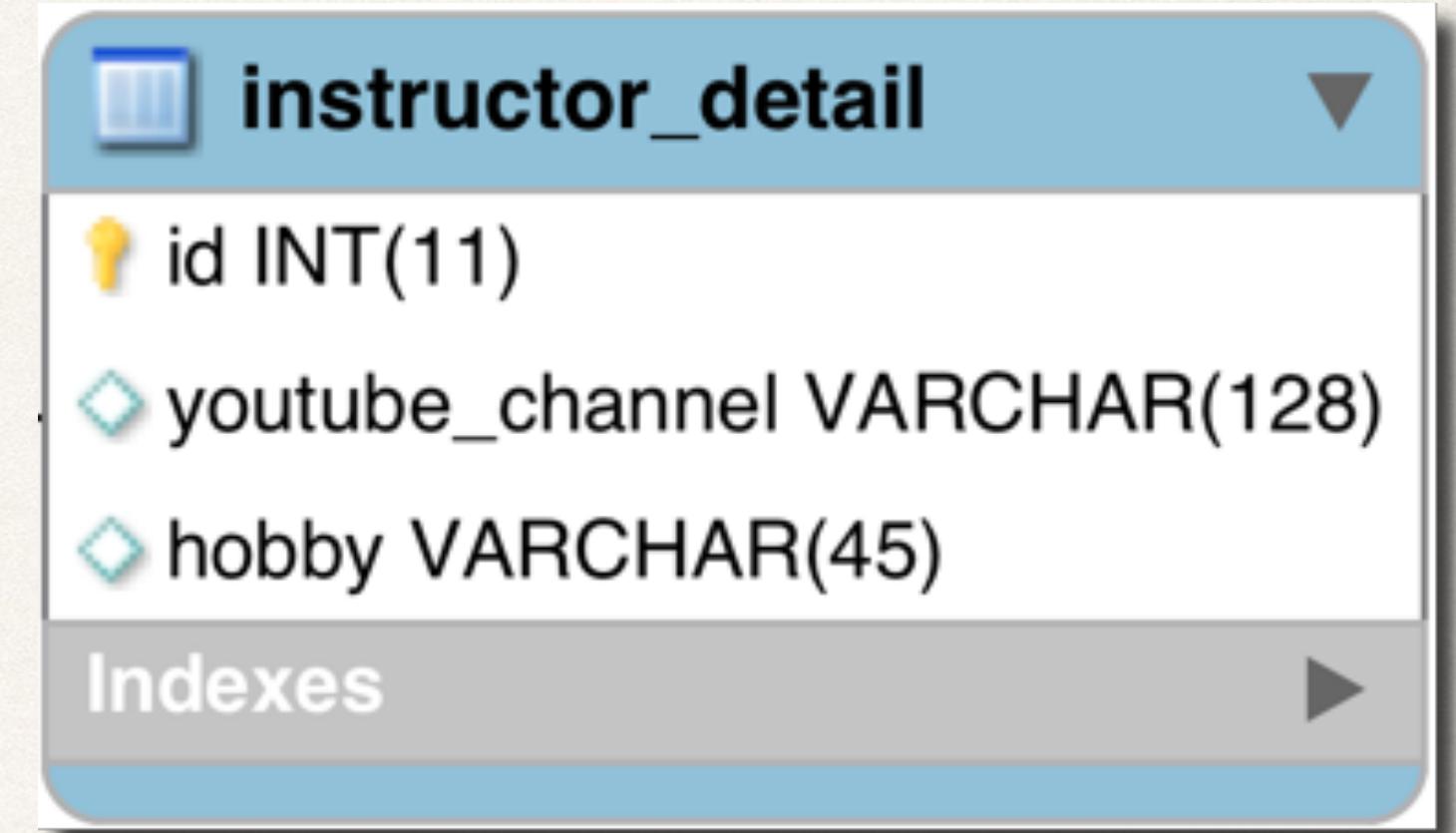


table: instructor_detail

File: create-db.sql

```
CREATE TABLE `instructor_detail` (
    `id`      int(11)  NOT NULL AUTO_INCREMENT,
    `youtube_channel` varchar(128) DEFAULT NULL,
    `hobby`      varchar(45) DEFAULT NULL,
    PRIMARY KEY (`id`)
);
```

...

instructor_detail	
!	id INT(11)
!	youtube_channel VARCHAR(128)
!	hobby VARCHAR(45)
Indexes	

table: instructor

File: create-db.sql

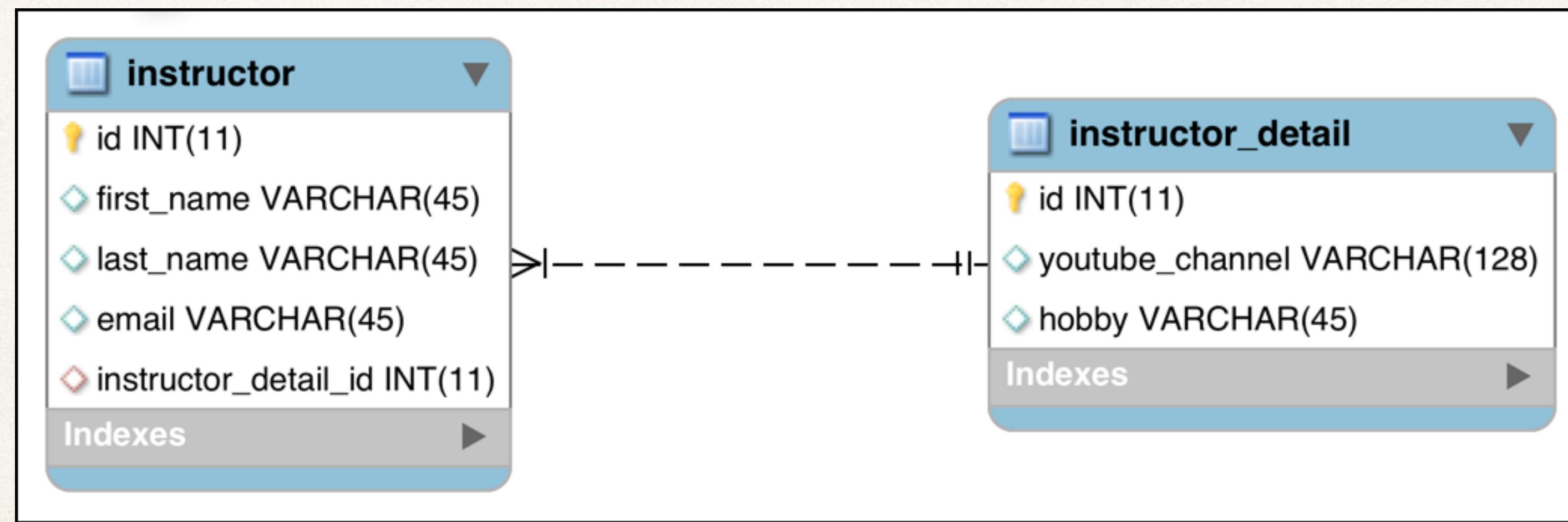
...

```
CREATE TABLE `instructor` (  
    `id`      int(11) NOT NULL AUTO_INCREMENT,  
    `first_name` varchar(45) DEFAULT NULL,  
    `last_name`  varchar(45) DEFAULT NULL,  
    `email`    varchar(45) DEFAULT NULL,  
    `instructor_detail_id` int(11) DEFAULT NULL,  
  
    PRIMARY KEY (`id`)  
);
```

instructor	
🔑	id INT(11)
◇	first_name VARCHAR(45)
◇	last_name VARCHAR(45)
◇	email VARCHAR(45)
◇	instructor_detail_id INT(11)
Indexes	

Foreign Key

- Link tables together
- A field in one table that refers to primary key in another table



Foreign Key Example

Table: instructor

id	first_name	last_name	instructor_detail_id
1	Chad	Darby	100
2	Madhu	Patel	200

Foreign key
column

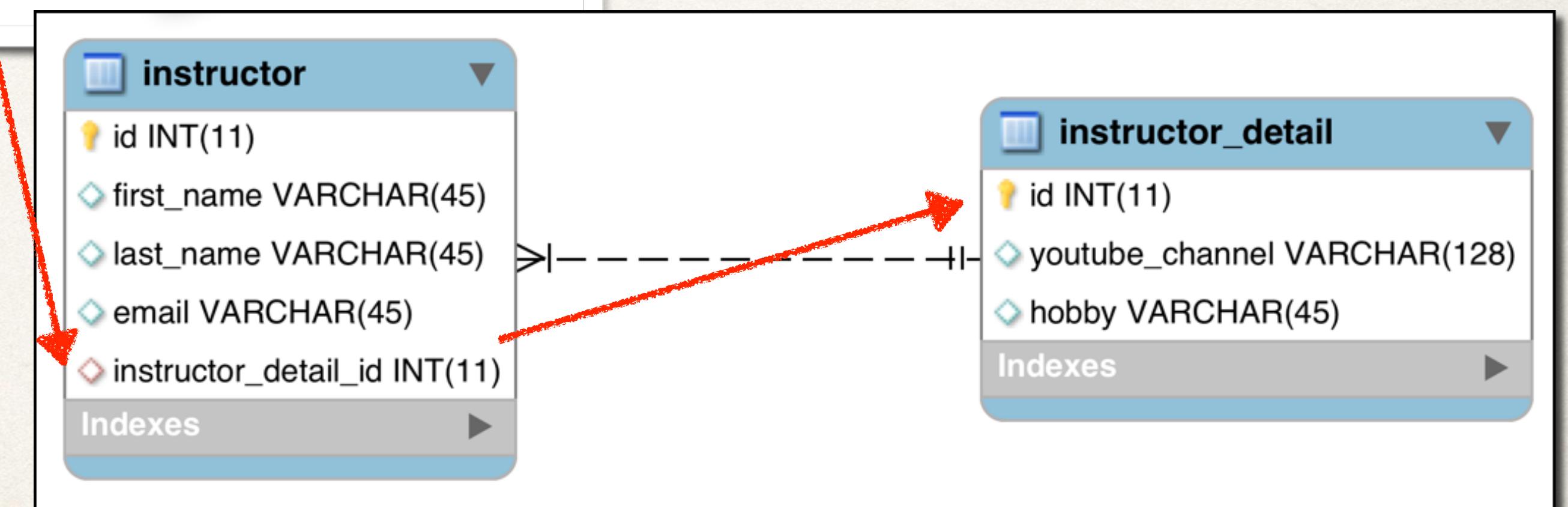
Table: instructor_detail

id	youtube_channel	hobby
100	www.luv2code.com/youtube	Luv 2 Code!!!
200	www.youtube.com	Guitar

Defining Foreign Key

File: create-db.sql

```
...  
CREATE TABLE `instructor` (  
...  
  
    CONSTRAINT `FK_DETAIL` FOREIGN KEY (`instructor_detail_id`)  
        REFERENCES `instructor_detail` (`id`)  
  
);
```



More on Foreign Key

- Main purpose is to preserve relationship between tables
 - Referential Integrity
- Prevents operations that would destroy relationship
- Ensures only valid data is inserted into the foreign key column
 - Can only contain valid reference to primary key in other table