

# Exercise 6-1 Nulls and Data Modification

## Sakila database

You don't have modification rights to sakila (or shouldn't! Please tell me if you find that you do). So these queries are all working with nulls

- Which staff member does not have a picture? (answer: Jon Stephens)
- Which customers paid for something that was not a video rental?

```
+-----+-----+
| first_name | last_name |
+-----+-----+
| SANDRA    | MARTIN   |
| LENA      | JENSEN   |
| TONY      | CARRANZA |
| KELLY     | KNOTT    |
| CLIFTON   | MALCOLM  |
+-----+-----+
5 rows in set (0.00 sec)
```

- Which cities do not appear in the address table? There are six. Create two queries to provide this answer:
  - Use a subselect
  - Use a left join

```
+-----+
| city |
+-----+
| London |
| Dunedin |
| Auckland |
| Christchurch |
| Riyadh |
| Madinah |
+-----+
6 rows in set (0.00 sec)
```

## SQLite

Using the pizza database from Week 4. With **all** modifications you should check the records affected with a select statement before performing the modification.

### Insert

- Insert a new customer Alice who is 23 years old
- Alice likes the same pizza's as Amy. Insert records into Eats based on Amy's food choice
- Alice goes to all pizzerias which serves mushroom pizza's – insert these records into Frequent

### *Update*

- It turns out that Cal is female – update her record
- New York Pizza has been purchased by 'Kiwi Pizza Company'. Change the name of all references in both Serves and Frequents tables
- The price of cheese increases by 10%. Increase the cost of all cheese pizza's by 10% (added challenge – make sure the price is rounded to two decimal places).

### *Delete*

- Ben decides he no longer likes cheese pizza's. Remove cheese from the list of pizza's he eats.
- Delete from 'Frequents' any pizzeria which does not serve a pizza which Ben now eats.
- Alice stops going to any pizzeria where mushroom pizza's are over \$10. Delete records based on that price.