In this assignment, you will use the same Sakila Sample Database. In case you have not downloaded the databases, you can download them from step 1 below and please submit the queries asked as part of Step 2.

Step 1:

1. Download the schema and data scripts for the [Sakila Sample Database](https://dev.mysql.com/doc/sakila/en/).

Step 2:

Write an SQL script with queries that answer the following questions:

### Build a query and save it as a view that displays all rentals, with the surname of the customer and of the employee who gave the film and the store to which the employee belongs, assigning- to each field a nickname. Then build another query that takes data from this view (so not from the original tables, thus use the nicknames) and joining it with table employees again, display also the surname of the responsible for the store, everything sorted by employee’s surname

### Generate an alter table statement for the rental table so that an error will be raised if a row having a value is found in the rental.customer\_id column is deleted from the customer table.

1. Generate a multicolumn index on the payment table that could be used by both of the following queries:

SELECT customer\_id, payment\_date, amount

FROM payment

WHERE payment\_date > cast('2005-12-31 23:59:59' as datetime);

SELECT customer\_id, payment\_date, amount

FROM payment

​ WHERE payment\_date > cast('2005-12-31 23:59:59' as datetime)

AND amount < 5;

1. The film rental company manager would like to have a report that includes the name of every country, along with the total payments for all customers who live in each country. Generate a view definition that queries the country table and uses a scalar subquery to calculate a value for a column named tot\_payments.
2. Write a query that lists all of the indexes in the Sakila schema. Include the table names.
3. Write a query that generates output that can be used to create all of the indexes on the sakila.customer table. Output should be of the form:

"ALTER TABLE <table\_name> ADD INDEX <index\_name> (<column\_list>)"