

MySQL Challenge 1:

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- Create a **new database**: “ChallengeDB” and make sure it’s active (in use):

Task 1:

Create two new tables:

- **Employees Table:** Contains the following fields
 - o Emp ID → Primary Key, Auto incremented by MySQL
 - o First Name → Variable Character of maximum 40 and Not Null
 - o Last Name → Variable Character of maximum 40 and Not Null
 - o Email → Variable Character of maximum 50 and Not Null and Unique
 - o Job Title → Variable Character of maximum 40 and Not Null
 - o Hire Date → Date and Not Null
 - o Salary → Decimal and value has to be between (15,000 and 50,000)
 - Hint: using CHECK() function
 - Note: The comma for 15,000 is just to format the number, we can’t use it with our SQL statement
- **Customers Table:**
 - o Cust ID → Primary Key, Auto incremented by MySQL
 - o First Name → Variable Character of maximum 40 and Not Null
 - o Last Name → Variable Character of maximum 40 and Not Null
 - o Email → Variable Character of maximum 50 and Not Null and Unique
 - o Province → Variable Character of maximum 40 and Not Null and Default value of “Ontario”
 - o City → Variable Character of maximum 40 and Not Null

Save this script as task1.sql

Task 2:

- Insert at least 3 records in each table with any values (You might need to more records for learning)
- Table Employee: Use **SELECT statements** to do:
 - o All the records
 - o The average of the employees’ salaries

Example from chinook database:

-- Find the average of the UnitPrice column (field) inside Track table:

```
SELECT AVG(unitprice) FROM Track;
```

o Grouped by “Job Title” → **GROUP BY** filed_name

Example from chinook database:
- Table Customers:
 - o Update one of the records (any field in that specific record) based on its id number
 - o **HINT:** Using WHERE clause with the value of id field

Save this script as task2.sql ↲→ Only for MySQL Workbench, with phpMyAdmin you can copy your SQL statement to MS Word and save them as pdf at the end.

NOTE: It's better to use MySQL Workbench so you can save your entire script as a script file