

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
 - Emp ID → Primary Key, Auto incremented by MySQL
 - First Name → Variable Character of maximum 40 and Not Null
 - Last Name → Variable Character of maximum 40 and Not Null
 - Email → Variable Character of maximum 50 and Not Null and Unique
 - Job Title → Variable Character of maximum 40 and Not Null
 - Hire Date → Date and Not Null
 - 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**:
 - Cust ID → Primary Key, Auto incremented by MySQL
 - First Name → Variable Character of maximum 40 and Not Null
 - Last Name → Variable Character of maximum 40 and Not Null
 - Email → Variable Character of maximum 50 and Not Null and Unique
 - Province → Variable Character of maximum 40 and Not Null and Default value of “Ontario”
 - 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:
 - All the records
 - 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;`
 - Grouped by “Job Title” → **GROUP BY field_name**
Example from chinook database:
- Table Customers:
 - Update one of the records (any field in that specific record) based on its id number
 - **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