

Problem Session #01 Getting started

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Task 1: Identify Data Requirements

01: a law firm wants to keep employees and their offices.

1. employees(employee_id, firstname, middlename, lastname, job_title, hire_date, email, phone, office_id, status, created_at)
2. offices(office_id, office_name, address_line1, address_line2, city, state, postal_code, country, phone)

02: Thai customs want to keep tourists and their passports that they used to enter Thailand.

1. tourists(passport_id, firstname, lastname, sex, date_of_birth, nationality, create_at, expired_at)

03: An airline wants to keep customers and their booking flights.

1. customers(customer_id, firstname, lastname, identification_id)
2. flight(flight_id, flight_code, date, airline, seat, start, destination)

04: A bank wants to keep customers and their accounts.

1. customers(customer_id, firstname, lastname, phone_number)
2. accounts(account_id, account_type, balance, create_at, delete_at)

05: A car dealer that wants to store cars, customers, and orders.

1. cars(cars_id, brand, name, type, miles, price, created_at)
2. customers(customers_id, firstname, lastname, phone, work)
3. orders(order_id, customer_name, cars_name, price, order_status, created_at)

06: A film archive that wants to store movies, actors, and casts.

1. movies(movie_id, title, release_year, genre, duration)
2. actors(actor_id, first_name, last_name, date_of_birth, nationality)
3. casts(cast_id, movie_id, actor_id, role_name)

07: A hospital that wants to store patients, doctors, and appointments.

1. patients(patient_id, first_name, last_name, date_of_birth, phone)
2. doctors(doctor_id, first_name, last_name, specialization, phone)
3. appointments(appointment_id, patient_id, doctor_id, appointment_date, appointment_time, reason)

08: A company that wants to store departments, employees, employee phone numbers.

1. departments(department_id, department_name, location)
2. employees(employee_id, first_name, last_name, job_title, department_id)
3. employee_phones(phone_id, employee_id, phone_number, phone_type)

09: A supermarket that wants to store products, receipts, and reviews.

1. product(product_id, name, ingredient, date of production, expiry date)
2. receipt_item(receipt_item_id, product_id, name_product, price_of_product, date, receipt_id)
3. Receipt(receipt_id, total_price, branch)

10: A bookstore wants to keep books and authors of each book.

1. book(book_id, author, type, production_date)
2. author(id, firstname, lastname, phone, address)

11: An online store that wants to store customers, products, and reviews

1. customers(customers_id, firstname, lastname, phone, work)
2. products(product_id, name, description, price, stock_quantity)
3. reviews(review_id, customer_id, product_id, rating, comment, review_date)

12: A restaurant wants to keep tables, menus, and order of each table.

1. table(table_id, order, number_people)
2. menu(menu_id, name, price)
3. order(order_id, name_menu, menu_id, table_id)

Task 2: Set Up Development Environment

ฐานข้อมูลและเครื่องมือที่ใช้งาน	
RDBMS	MySQL
Database management GUI	phpMyAdmin

Run SQL query/queries on server "db_default": ⓘ

```
1 CREATE DATABASE students;
2 SHOW DATABASES;
```

Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Hide query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0222 seconds.)

`CREATE DATABASE students;`

[Edit inline] [Edit] [Create PHP code]

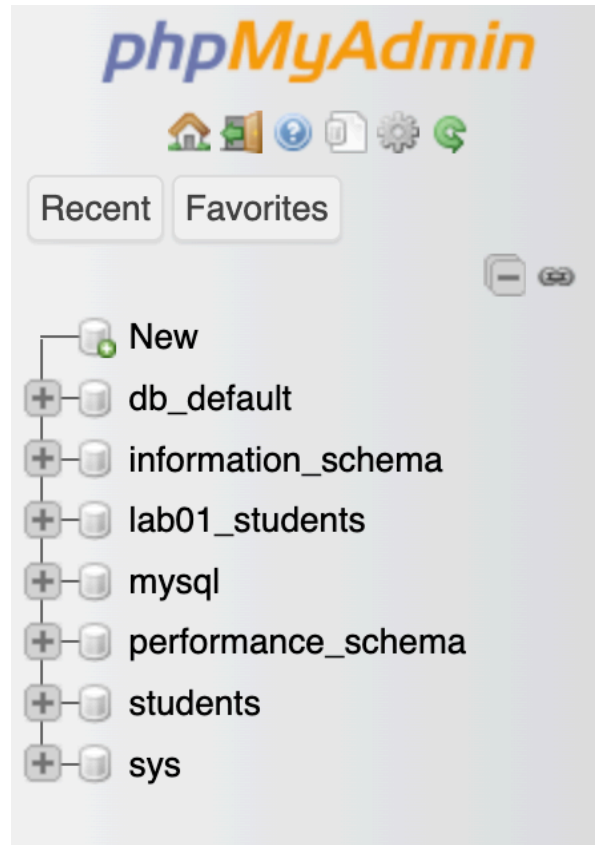
⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Your SQL query has been executed successfully. (Query took 0.0004 seconds.)

`SHOW DATABASES;`

☐ Profiling [Edit inline] [Edit] [Create PHP code] [Refresh]

รูปภาพแสดงผลการทำงานของ SQL commands (1)



รูปภาพแสดงผลการทำงานของ SQL commands (2)