COLLEGE OF COMPUTING, INFORMATICS, AND MATHEMATICS

UNIVERSITI TEKNOLOGI MARA

MERBOK, KEDAH

DIPLOMA IN LIBRARY INFORMATICS

(IM144)

PROGRAMMING FOR LIBRARIES

(IML209)

INDIVIDUAL ASSIGNMENT:

NIGHT MOVIE SYSTEM

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CLASS:

KCDIM144 3F

PREPARED FOR:

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SUBMISSION DATE:

3 JANUARY 2024

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AKNOWLEDGMENT

First and foremost, I am over helmed in all humbleness and gratefulness to acknowledge my depth to all those who helped me to put these ideas, well above the level of simplicity and into something concrete. I would like to express my special thanks of gratitude to my lecturer, Sir Airul Shazwan bin Norshahimi for encouraging me to continue to write and gives me guidance to complete this assignment which also helped me in doing a lot of research and I came to know about so many new things. Without his help, it is impossible to finish this assignment on time. Secondly, I want to give appreciation to my parents who have continuously supported me from home to help me accomplish this assignment and their guidance, encouragement, and inspiration to me throughout their lives. Next, I also would like to thank my fellow classmates and friends for their help on this task. This assignment makes me more confident to continue my studies and this will be a memorable moment for me.

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1.0 INTRODUCTION

The Night Movie System emerges as a comprehensive solution for organizing and handling, with a unique focus on delivering films that resonate with and heal your inner child, during the ever-changing entertainment environment. This revolutionary solution, designed specifically for student users, effortlessly blends the power of MySQL's strong relational database management system with an intuitive graphical user interface, giving users a complex and user-friendly movie management experience.

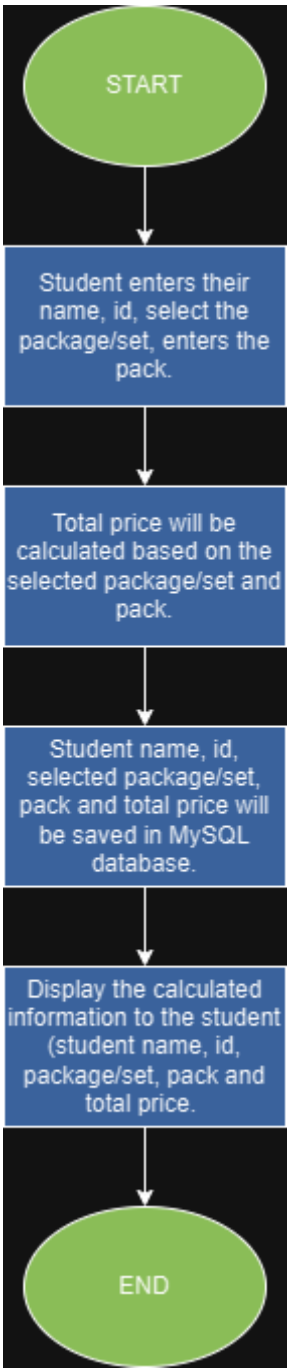
The Night Movie System uses MySQL to store and organize massive quantities of data relating to the chosen movie and user-specific information. MySQL's dependability and scalability allow for the efficient processing of a wide range of data, including student-specific features such as student name, student ID, package type, package packs, and package prices.

With MySQL at its core, the Night Movie System assures data integrity and security not just for movie-related information but also for student information. The relational database structure enables the development of relationships between various data pieces, therefore reducing inconsistencies and improving overall data dependability. User authentication and access restrictions help to strengthen the system's security safeguards.

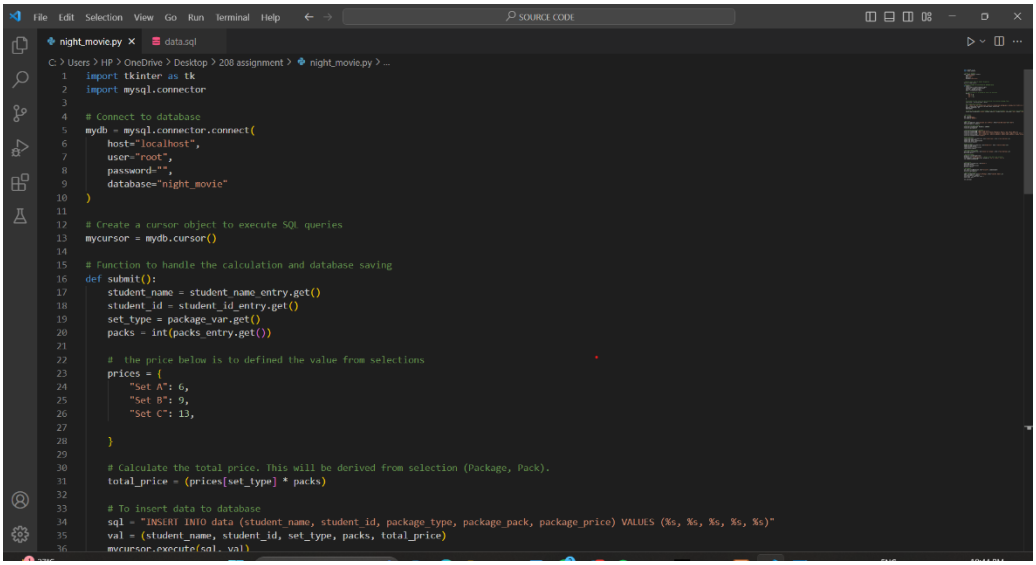
The Night Movie System prioritizes user experience by providing an easy and visually appealing graphical user interface (GUI) that seamlessly fits student-specific features. Drag-and-drop capability, adaptable design, and a simple layout make it simple to navigate and manage the selected movie and student data. Easy data entry is made possible via straightforward input fields. Students may enter their name and ID, select a set from a dropdown menu, determine the number of persons in each pack, and then click the "Calculate" button. The input is then smoothly processed by the system for a rapid and precise pricing estimate.

Lastly, the Night Movie System goes above and beyond basic movie management by selecting a collection of films particularly intended to cure students' inner child. These carefully chosen films seek to induce nostalgia, joy, and awe, providing users with a healing and enlightening experience.

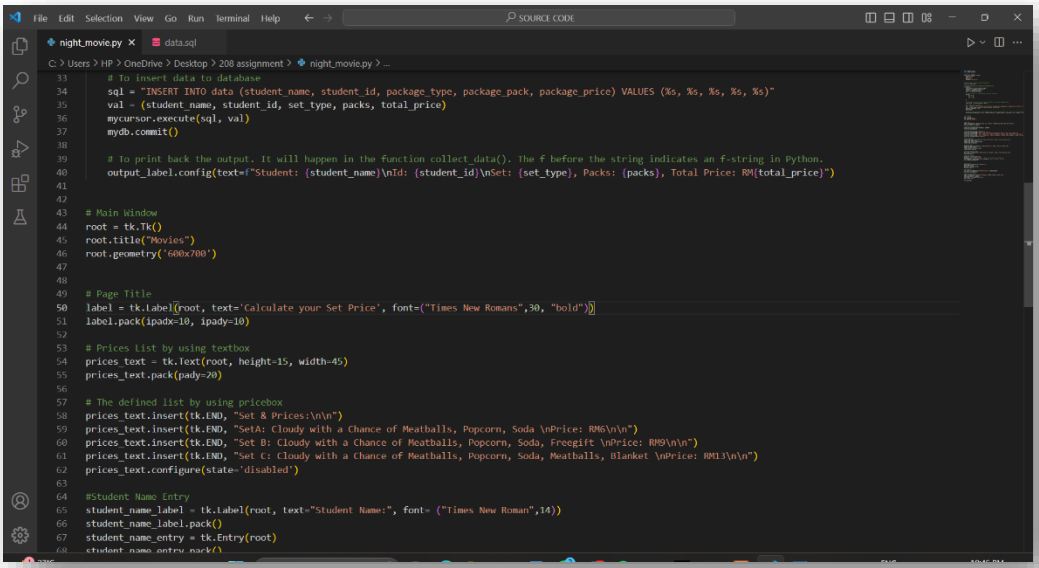
2.0 FLOWCHART



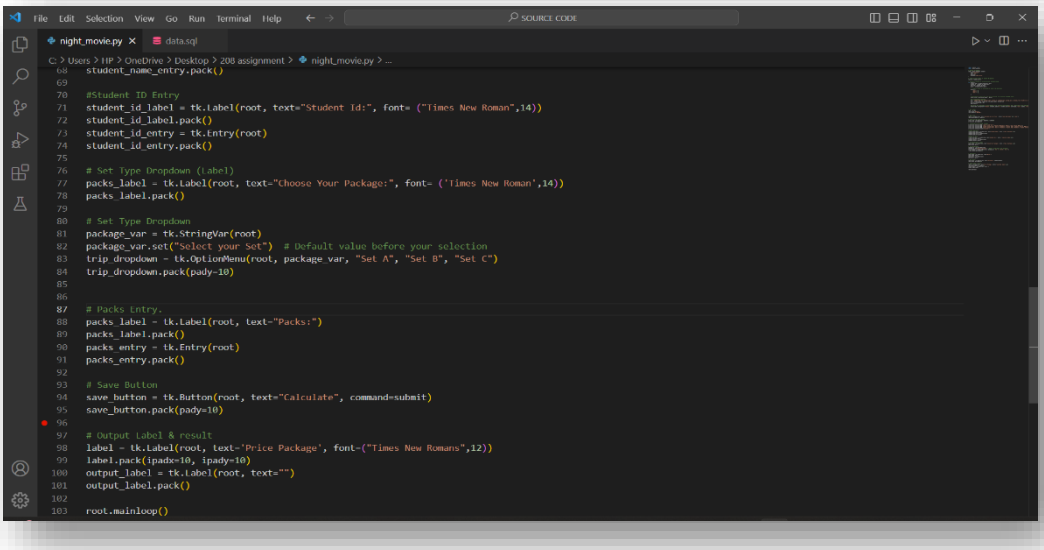
3.0 PYTHON CODE



```python
import tkinter as tk
import mysql.connector

# Connect to database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="night_movie"
)

# Create a cursor object to execute SQL queries
mycursor = mydb.cursor()

# Function to handle the calculation and database saving
def submit():
    student_name = student_name_entry.get()
    student_id = student_id_entry.get()
    set_type = package_var.get()
    packs = int(packs_entry.get())

    #  the price below is to defined the value from selections
    prices = {
        "Set A": 6,
        "Set B": 9,
        "Set C": 13,

    }

    # Calculate the total price. This will be derived from selection (Package, Pack).
    total_price = (prices[set_type] * packs)

    # To insert data to database
    sql = "INSERT INTO data (student_name, student_id, package_type, package_pack, package_price) VALUES (%s, %s, %s, %s, %s)"
    val = (student_name, student_id, set_type, packs, total_price)
    mycursor.execute(sql, val)
```

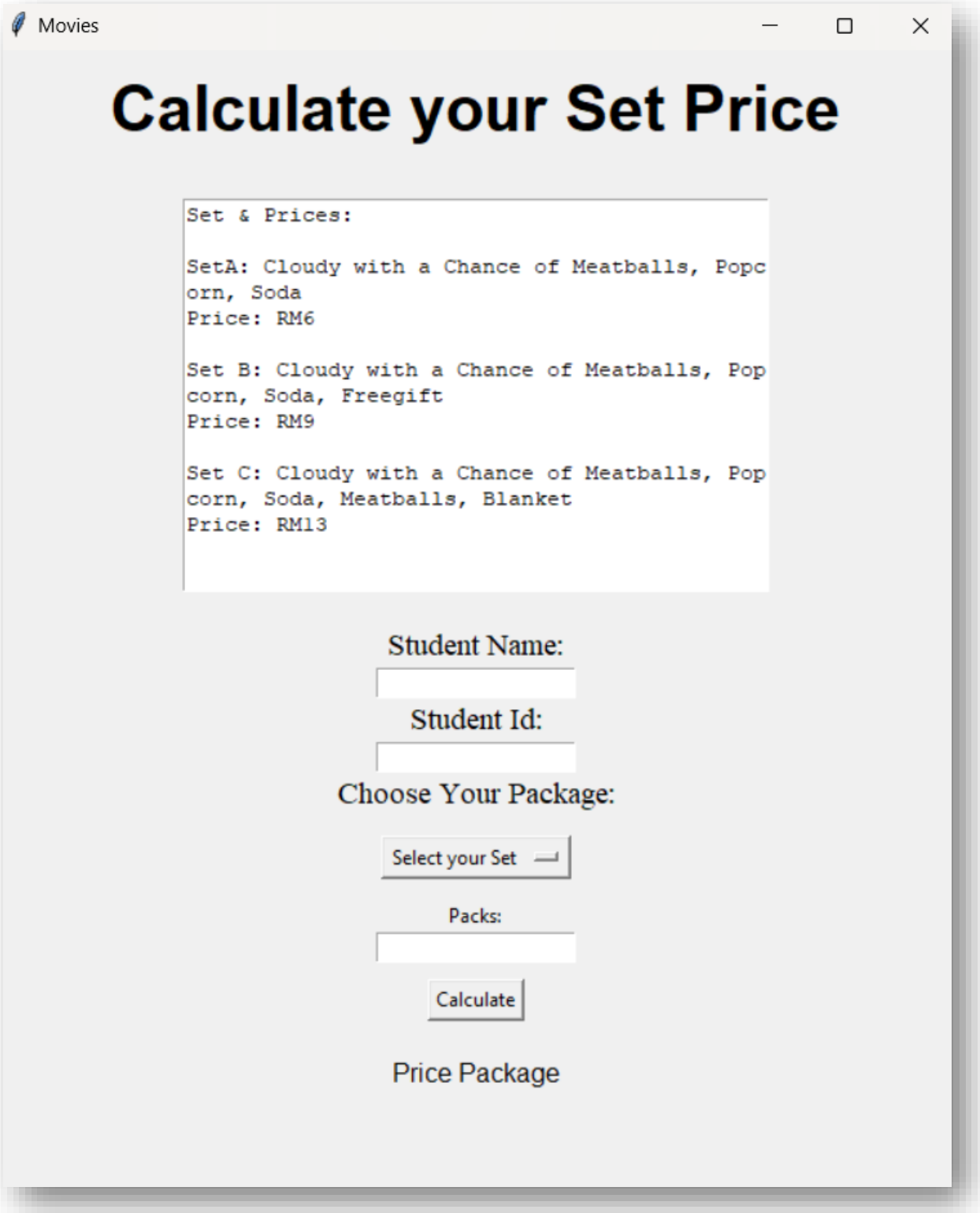


```python
    # To insert data to database
    sql = "INSERT INTO data (student_name, student_id, package_type, package_pack, package_price) VALUES (%s, %s, %s, %s, %s)"
    val = (student_name, student_id, set_type, packs, total_price)
    mycursor.execute(sql, val)
    mydb.commit()

    # To print back the output. It will happen in the function collect_data(). The f before the string indicates an f-string in Python.
    output_label.config(text=f"Student: {student_name}\nId: {student_id}\nSet: {set_type}, Packs: {packs}, Total Price: RM{total_price}")


# Main Window
root = tk.Tk()
root.title("Movies")
root.geometry('600x700')


# Page Title
label = tk.Label(root, text='Calculate your Set Price', font=("Times New Romans",30, "bold"))
label.pack(ipadx=10, ipady=10)

# Prices List by using textbox
prices_text = tk.Text(root, height=15, width=45)
prices_text.pack(pady=20)

# The defined list by using pricebox
prices_text.insert(tk.END, "Set & Prices:\n\n")
prices_text.insert(tk.END, "SetA: Cloudy with a Chance of Meatballs, Popcorn, Soda \nPrice: RM6\n\n")
prices_text.insert(tk.END, "Set B: Cloudy with a Chance of Meatballs, Popcorn, Soda, Freegift \nPrice: RM9\n\n")
prices_text.insert(tk.END, "Set C: Cloudy with a Chance of Meatballs, Popcorn, Soda, Meatballs, Blanket \nPrice: RM13\n\n")
prices_text.configure(state='disabled')

#Student Name Entry
student_name_label = tk.Label(root, text="Student Name:", font= ("Times New Roman",14))
student_name_label.pack()
student_name_entry = tk.Entry(root)
```

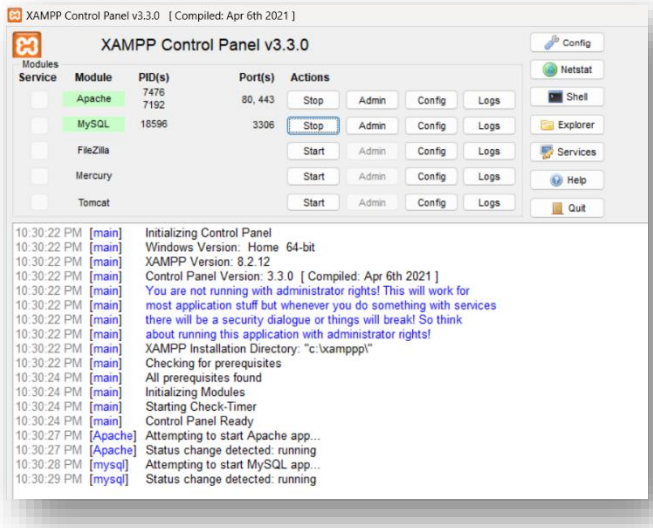


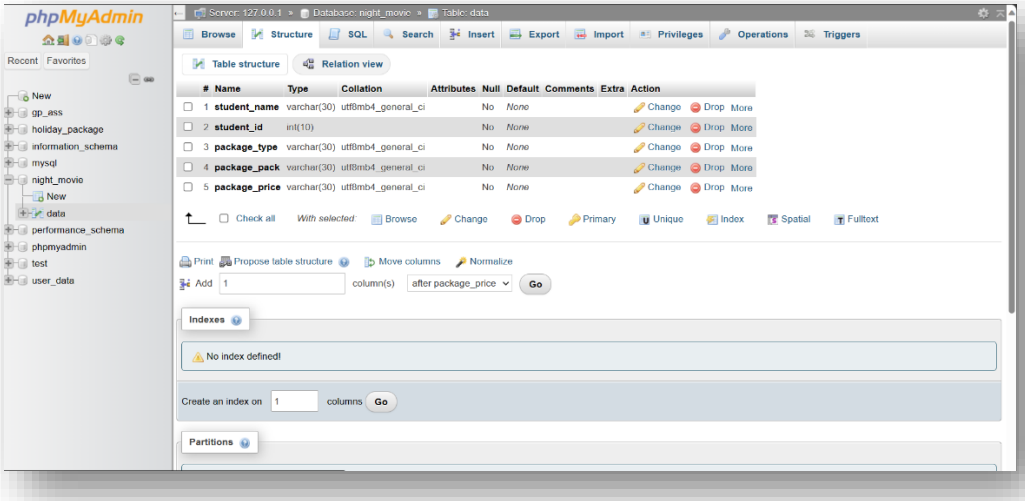
```python
student_name_entry.pack()

#Student ID Entry
student_id_label = tk.Label(root, text="Student Id:", font= ("Times New Roman",14))
student_id_label.pack()
student_id_entry = tk.Entry(root)
student_id_entry.pack()

# Set Type Dropdown (Label)
packs_label = tk.Label(root, text="Choose Your Package:", font= ('Times New Roman',14))
packs_label.pack()

# Set Type Dropdown
package_var = tk.StringVar(root)
package_var.set("Select your Set")  # Default value before your selection
trip_dropdown = tk.OptionMenu(root, package_var, "Set A", "Set B", "Set C")
trip_dropdown.pack(pady=10)


# Packs Entry.
packs_label = tk.Label(root, text="Packs:")
packs_label.pack()
packs_entry = tk.Entry(root)
packs_entry.pack()

# Save Button
save_button = tk.Button(root, text="Calculate", command=submit)
save_button.pack(pady=10)

# Output Label & result
label = tk.Label(root, text='Price Package', font=("Times New Romans",12))
label.pack(ipadx=10, ipady=10)
output_label = tk.Label(root, text="")
output_label.pack()


root.mainloop()
```

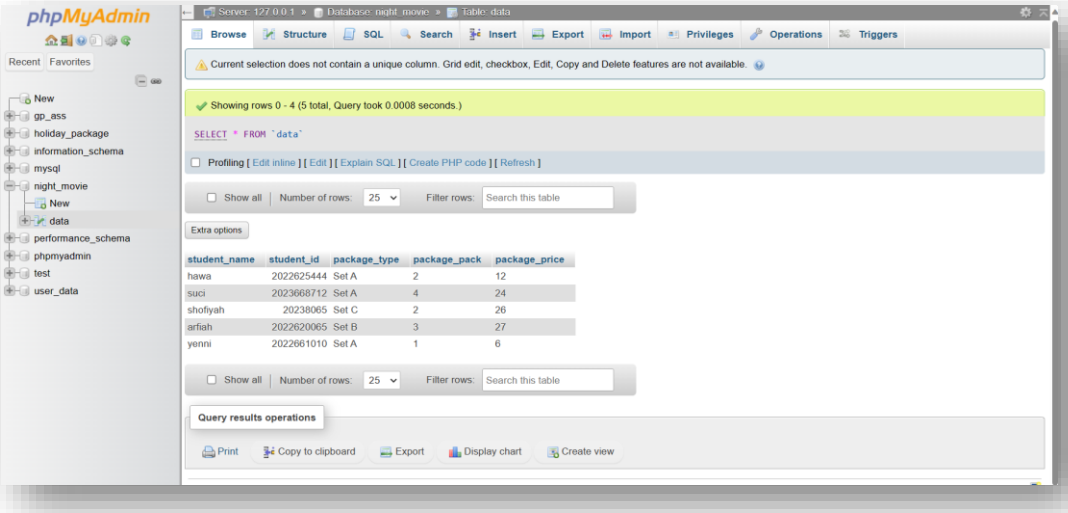
4.0 GRAPHICAL USER INTERFACE (GUI)



5.0 DATABASE


XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]
XAMPP Control Panel v3.3.0
Modules
Service Module PID(s) Port(s) Actions
Apache 7476 7192 80, 443 Stop Admin Config Logs
MySQL 18596 3306 Stop Admin Config Logs
FileZilla Start Admin Config Logs
Mercury Start Admin Config Logs
Tomcat Start Admin Config Logs
Config
Netstat
Shell
Explorer
Services
Help
Quit
10:30:22 PM [main] Initializing Control Panel
10:30:22 PM [main] Windows Version: Home 64-bit
10:30:22 PM [main] XAMPP Version: 8.2.12
10:30:22 PM [main] Control Panel Version: 3.3.0 [Compiled: Apr 6th 2021]
10:30:22 PM [main] You are not running with administrator rights! This will work for
10:30:22 PM [main] most application stuff but whenever you do something with services
10:30:22 PM [main] there will be a security dialogue or things will break! So think
10:30:22 PM [main] about running this application with administrator rights!
10:30:22 PM [main] XAMPP Installation Directory: "c:\xamppp\"
10:30:22 PM [main] Checking for prerequisites
10:30:24 PM [main] All prerequisites found
10:30:24 PM [main] Initializing Modules
10:30:24 PM [main] Starting Check-Timer
10:30:24 PM [main] Control Panel Ready
10:30:27 PM [Apache] Attempting to start Apache app...
10:30:27 PM [Apache] Status change detected: running
10:30:28 PM [mysql] Attempting to start MySQL app...
10:30:29 PM [mysql] Status change detected: running


phpMyAdmin
Server: 127.0.0.1 » Database: night_movie » Table: data
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Table structure Relation view
Name Type Collation Attributes Null Default Comments Extra Action
1 student_name varchar(30) utf8mb4_general_ci No None Change Drop More
2 student_id int(10) No None Change Drop More
3 package_type varchar(30) utf8mb4_general_ci No None Change Drop More
4 package_pack varchar(30) utf8mb4_general_ci No None Change Drop More
5 package_price varchar(30) utf8mb4_general_ci No None Change Drop More
Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext
Print Propose table structure Move columns Normalize
Add 1 column(s) after package_price Go
Indexes
No index defined!
Create an index on 1 columns Go
Partitions
Recent Favorites
New
gp_ass
holiday_package
information_schema
mysql
night_movie
New
data
performance_schema
phpmyadmin
test
user_data


phpMyAdmin
Server: 127.0.0.1 » Database: night_movie » Table: data
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 4 (5 total, Query took 0.0008 seconds.)
SELECT * FROM `data`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all Number of rows: 25 Filter rows: Search this table
Extra options
student_name student_id package_type package_pack package_price
hawa 2022625444 Set A 2 12
suci 2023668712 Set A 4 24
shofiyah 20238065 Set C 2 26
arfiah 2022620065 Set B 3 27
yenni 2022661010 Set A 1 6
Show all Number of rows: 25 Filter rows: Search this table
Query results operations
Print Copy to clipboard Export Display chart Create view
Recent Favorites
New
gp_ass
holiday_package
information_schema
mysql
night_movie
New
data
performance_schema
phpmyadmin
test
user_data