Bacchus\_Milestone\_2

Group 2

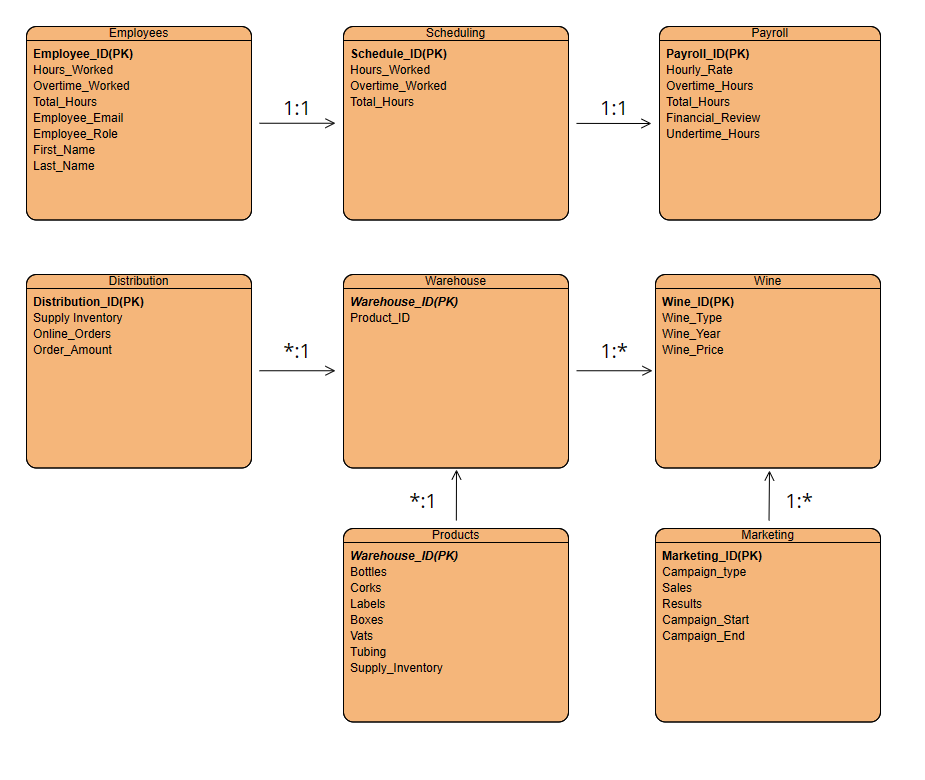
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ERD:



Code:

import mysql.connector

from mysql.connector import errorcode

# Connect to MySQL database

try:

    # Establish database connection

    db = mysql.connector.connect(

        user="root",

        password="popcorn",

        host="127.0.0.1",

        database="movies",

        raise\_on\_warnings=True

    )

    print("\nDatabase user {} connected to MySQL on host {} with database {}".format("root", "127.0.0.1", "movies"))

    input("\nPress any key to continue...")

    cursor = db.cursor()

    # Define table creation queries

    create\_tables\_query = [

        """

        CREATE TABLE Employees (

            employee\_id INT AUTO\_INCREMENT PRIMARY KEY,

            name VARCHAR(255),

            department VARCHAR(255),

            title VARCHAR(255)

        )

        """,

        """

        CREATE TABLE Suppliers (

            supplier\_id INT AUTO\_INCREMENT PRIMARY KEY,

            name VARCHAR(255),

            product\_type VARCHAR(255),

            delivery\_frequency VARCHAR(255)

        )

        """,

        """

        CREATE TABLE Products (

            product\_id INT AUTO\_INCREMENT PRIMARY KEY,

            name VARCHAR(255),

            type VARCHAR(255)

        )

        """,

        """

        CREATE TABLE Orders (

            order\_id INT AUTO\_INCREMENT PRIMARY KEY,

            product\_id INT,

            supplier\_id INT,

            quantity INT,

            order\_date DATE,

            FOREIGN KEY (product\_id) REFERENCES Products(product\_id),

            FOREIGN KEY (supplier\_id) REFERENCES Suppliers(supplier\_id)

        )

        """,

        """

        CREATE TABLE Shipments (

            shipment\_id INT AUTO\_INCREMENT PRIMARY KEY,

            supplier\_id INT,

            expected\_delivery DATE,

            actual\_delivery DATE,

            FOREIGN KEY (supplier\_id) REFERENCES Suppliers(supplier\_id)

        )

        """,

        """

        CREATE TABLE Distributors (

            distributor\_id INT AUTO\_INCREMENT PRIMARY KEY,

            name VARCHAR(255),

            product\_id INT,

            FOREIGN KEY (product\_id) REFERENCES Products(product\_id)

        )

        """,

        """

        CREATE TABLE EmployeeHours (

            employee\_id INT,

            quarter INT,

            hours\_worked INT,

            FOREIGN KEY (employee\_id) REFERENCES Employees(employee\_id)

        )

        """

    ]

    # Execute table creation queries

    for query in create\_tables\_query:

        cursor.execute(query)

    db.commit()

    # Populate tables with sample data

    # Insert statements for each table

    # Display data in each table

    # Select statements for each table

except mysql.connector.Error as err:

    if err.errno == errorcode.ER\_ACCESS\_DENIED\_ERROR:

        print("Error: Access denied. Please check your username and password.")

    elif err.errno == errorcode.ER\_BAD\_DB\_ERROR:

        print("Error: Database does not exist.")

    else:

        print(err)

finally:

    if 'db' in locals() and db.is\_connected():

        cursor.close()

        db.close()

Output:

A screenshot of a computer

Description automatically generated