AFRICAN LEADERSHIP UNIVERSITY COMPUTER SCIENCE COURSE DATABASE MANAGEMENT RUNTIME TERROR

Queries	Results	
SELECT Quantity AS order_quantity, SUBSTR(orders.Time_stamp, 1, 4) AS year FROM orders INNER JOIN payment_amount ON orders.Order_ID = payment_amount.Order_ID WHERE payment_amount IS NOT NULL GROUP BY year ORDER BY year DESC;	According to the database, we managed to find that there were: • 44 orders in the year 2018 • 1 order placed in the year 2019. NB: This were orders that were placed and confirmed by the customers.	
SELECT Time_stamp, Account_Name FROM orders INNER JOIN user_account ON user_account.Account_ID = orders.Order_ID ORDER BY orders.Order_ID DESC LIMIT 1;	From the database, we found that the first order was placed on 14-10-2019 and the Account owner was slaynerr	
	The Database result:	
	Time_stamp Account_Name	
	2019-10-14 slaynerr	
	SELECT Quantity AS order_quantity, SUBSTR(orders.Time_stamp, 1, 4) AS year FROM orders INNER JOIN payment_amount ON orders.Order_ID = payment_amount.Order_ID WHERE payment_amount IS NOT NULL GROUP BY year ORDER BY year DESC; SELECT Time_stamp, Account_Name FROM orders INNER JOIN user_account ON user_account.Account_ID = orders.Order_ID ORDER BY orders.Order_ID DESC	

Write a simple query to determine which customer/s placed the most order in 2019 and clearly articulate the Product_ID, First Name and Last Name and how many quantity/ies ordered?

SELECT customers.First_Name,
customers.Last_Name, Quantity,
orders.Product_ID FROM
orders INNER JOIN user_account ON
user_account.Account_ID =
orders.Account_ID
INNER JOIN customers ON
customers.Customer_ID =
user_account.Customer_ID
WHERE SUBSTR(orders.Time_stamp, 1, 4)
= '2019'
ORDER BY Quantity DESC
LIMIT 6;

As the database had multiple customers who had the most orders. We obtained six customers with most placed an order on the same year.

Below is the result of the query:

First_Nam e	Last_Nam e	Quantity 1	Product_I D
Farley	Hutsby	99	21
Denise	Barus	99	45
Martie	Lenox	99	29
Adiana	Figures	99	34
Cathyleen	Bremmell	99	45
Gan	Minor	99	40

Develop a query to determine the top ten average payments for each product for the most recent year? Calculate the minimum and	SELECT products.Product_name, AVG (payment_amount) AS AVG_payment FROM payment INNER JOIN payment_amount ON payment.Payment_amount_id = payment_amount.Payment_amount_id INNER JOIN orders ON orders.Order_ID = payment.Order_ID INNER JOIN products ON products.Product_ID = orders.Product_ID WHERE SUBSTR(payment.Time_stamp, 1, 4) = '2019' GROUP BY products.Product_name ORDER BY AVG_payment DESC LIMIT 10; SELECT	The Database showed the following Product_name Masters of the Universe 360 One Deadly Summer (L'été meurtrier) Seven Sinners Police Academy 2: Their First Assignment Pontypool Reformer and the Redhead, The Descent: Part 2, The Lauderdale (a.k.a. Spring Break USA) (a.k.a. Sprin Free Men (Les hommes libres)	Avg_payment 513.2833333333 374.2288888888 889 362.8599999999 9996 353.86375 341.7207142857 142 340.0012500000 001 314.6976923076 9236 308.7227272727 2724 297.0246666666 6663 286.3637500000 0004
maximum payments made on this database?	min(payment_amount.payment_amount) AS minimum_payment_amount, max(payment_amount.payment_amount) AS maximum_payment_amount,	 The result obtained from the Database are: Maximum Payment being 996.60 Minimum payment being 0.16 Maximum orders being 1000 	

	min(orders.Order_ID) AS min_order, max(orders.Order_ID) AS max_order FROM payment_amount INNER JOIN orders ON payment_amount.Order_ID = orders.Order_ID	Minimum orders being 1
Calculate the total number of orders shipped and reached their desired destinations? Be sure to specify the status of the commodities being either received or not by the customer?	SELECT COUNT(Shipping_ID) AS Total_Number_Order FROM `shipping` WHERE Shipping_Status = 1 and Delivery_Status = 1;	As the question asked, the database showed that there were 757 orders that were shipped and reached their destination as they claimed to receive the commodities by the customers. The result from the Database: Total_Number_Order 757
Write a simple query to determine the last log-in details made in this database? Who was the customer and (s)he ordered something?	SELECT user_account.Account_ID, user_account.Account_Name, orders.Order_ID, products.Product_name FROM user_account JOIN orders ON user_account.Account_ID = orders.Account_ID JOIN products ON orders.Product_ID = products.Product_ID ORDER BY user_account.Account_ID DESC LIMIT 1;	According to the Database data, we found that the last login was done by Customer named jbuntirr with order_Id 684 and she ordered a product with a name Miss Congeniality. The result of the Database were: Account_I

Develop a query to calculate the total number of orders placed and managed to get paid by the customer?	SELECT COUNT(payment_amount.Order_ID) from payment_amount WHERE payment_amount.Payment_amount IS NOT NULL;	become appare	nt that after running that after running that after running the state of the state	
What were the top 3 products by the number of orders placed? State the category? Include the query you run to obtain the correct result.	SELECT products.Product_name As product_name, COUNT(products.Product_name) AS product_count, products.Category_name AS category FROM orders JOIN products ON orders.Product_ID = products.Product_ID GROUP BY Product_name ORDER BY category_count DESC LIMIT 3	From the database products being: product_name Shepherd One Deadly Summer (L'été meurtrier) Cobra Shepherd	product_count 34 27 27 34	category Audi Mercury Chrysler Audi

What are the top 3 cities by the number of customers registered from that city in the database?	SELECT City, count(Customer_ID) FROM customers GROUP BY City ORDER BY COUNT(Customer_ID) DESC Limit 3	From the database we obtain the top three cities with number of customers registered are: • Stockholm • Saguenay • Cibodas	
What are the top 10 products that recieved a 5 star rating based on the number of user who gave reviews	SELECT products.Product_name AS product, AVG(reviews.Rating) AS average_review, COUNT(reviews.Product_ID) AS review_count FROM reviews JOIN products ON reviews.Product_ID = products.Product_ID WHERE Rating = 5 GROUP BY product ORDER BY review_count DESC LIMIT 10	From the database there were twenty five products that were rated 5 stars. product Princess and the Frog, The Silentium Elf Shepherd Angus, Thongs and Perfect Snogging Handful of Dust, A Cinderella Story, A Millhaven Living Dead Girl, The (Morte Vivante, La) Corvette Summer	1