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Course: MySQL

Difficulty: Intense

Instruction: Import the given **lco_motors.sql** file in phpmyadmin and then answer the following questions with mySQL queries.

Q1) How would you fetch details of the customers who cancelled orders?

Q2) Fetch the details of customers who have done payments between the amount 5,000 and 35,000?

Q3) Add new employee/salesman with following details:-

EMP ID - 15657

First Name : Lakshmi

Last Name: Roy

Extension : x4065

Email: lakshmiroy1@lcomotors.com

Office Code: 4

Reports To: 1088

Job Title: Sales Rep

Q4) Assign the new employee to the customer whose phone is 2125557413 .

Q5) Write a SQL query to fetch shipped motorcycles.

Q6) Write a SQL query to get details of all employees/salesmen in the office located in Sydney.

Q7) How would you fetch the details of customers whose orders are in process?

Q8) How would you fetch the details of products with less than 30 orders?

Q9) It is noted that the payment (check number OM314933) was actually 2575. Update the record.

Q10) Fetch the details of salesmen/employees dealing with customers whose orders are resolved.

Q11) Get the details of the customer who made the maximum payment.

Q12) Fetch list of orders shipped to France.

Q13) How many customers are from Finland who placed orders.

~~**Q14)** Get the details of the customer who made the maximum payment.~~

Q15) Get the details of the customer and payments they made between May 2019 and June 2019.

Q16) How many orders shipped to Belgium in 2018?

Q17) Get the details of the salesman/employee with offices dealing with customers in Germany.

Q18) The customer (id:496) made a new order today and the details are as follows:

Order id : 10426

Product Code: S12_3148

Quantity : 41

Each price : 151

Order line number : 11

Order date : <today's date>

Required date: <10 days from today>

Status: In Process

Q19) Fetch details of employees who were reported for the payments made by the customers between June 2018 and July 2018.

Q20) A new payment was done by a customer(id: 119). Insert the below details.

Check Number : OM314944

Payment date : <today's date>

Amount : 33789.55

Q21) Get the address of the office of the employees that reports to the employee whose id is 1102.

Q22) Get the details of the payments of classic cars.

Q23) How many customers ordered from the USA?

Q24) Get the comments regarding resolved orders.

Q25) Fetch the details of employees/salesmen in the USA with office addresses.

Q26) Fetch total price of each order of motorcycles. (Hint: quantity x price for each record).

Q27) Get the total worth of all planes ordered.

Q28) How many customers belong to France?

Q29) Get the payments of customers living in France.

Q30) Get the office address of the employees/salesmen who report to employee 1143.



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Instruction: Import the given **lco_films.sql** file in phpmyadmin and then answer the following questions with MySQL queries.

Q1) Which categories of movies released in 2018? Fetch with the number of movies.

Q2) Update the address of actor id 36 to "677 Jazz Street".

Q3) Add the new actors (id : 105 , 95) in film ARSENIC INDEPENDENCE (id:41).

Q4) Get the name of films of the actors who belong to India.

Q5) How many actors are from the United States?

Q6) Get all languages in which films are released in the year between 2001 and 2010.

Q7) The film ALONE TRIP (id:17) was actually released in Mandarin, update the info.

Q8) Fetch cast details of films released during 2005 and 2015 with PG rating.

Q9) In which year most films were released?

Q10) In which year least number of films were released?

Q11) Get the details of the film with maximum length released in 2014 .

Q12) Get all Sci- Fi movies with NC-17 ratings and language they are screened in.

Q13) The actor FRED COSTNER (id:16) shifted to a new address:
055, Piazzale Michelangelo, Postal Code - 50125 , District - Rifredi at Florence, Italy.
Insert the new city and update the address of the actor.

Q14) A new film "No Time to Die" is releasing in 2020 whose details are :

Title :- No Time to Die

Description: Recruited to rescue a kidnapped scientist, globe-trotting spy James Bond finds himself hot on the trail of a mysterious villain, who's armed with a dangerous new technology.

Language: English

Org. Language : English
Length : 100
Rental duration : 6
Rental rate : 3.99
Rating : PG-13
Replacement cost : 20.99
Special Features = Trailers, Deleted Scenes

Insert the above data.

Q15) Assign the category Action, Classics, Drama to the movie "No Time to Die" .

Q16) Assign the cast: PENELOPE GUINESS, NICK WAHLBERG, JOE SWANK to the movie "No Time to Die" .

Q17) Assign a new category Thriller to the movie ANGELS LIFE.

Q18) Which actor acted in most movies?

Q19) The actor JOHNNY LOLLOBRIGIDA was removed from the movie GRAIL FRANKENSTEIN. How would you update that record?

Q20) The HARPER DYING movie is an animated movie with Drama and Comedy. Assign these categories to the movie.

Q21) The entire cast of the movie WEST LION has changed. The new actors are DAN TORN, MAE HOFFMAN, SCARLETT DAMON. How would you update the record in the safest way?

Q22) The entire category of the movie WEST LION was wrongly inserted. The correct categories are Classics, Family, Children. How would you update the record ensuring no wrong data is left?

Q23) How many actors acted in films released in 2017?

Q24) How many Sci-Fi films released between the year 2007 to 2017?

Q25) Fetch the actors of the movie WESTWARD SEABISCUIT with the city they live in.

Q26) What is the total length of all movies played in 2008?

Q27) Which film has the shortest length? In which language and year was it released?

Q28) How many movies were released each year?

Q29) How many languages of movies were released each year?.

Q30) Which actor did least movies?



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Instruction: Import the given **lco_car_rentals.sql** file in phpmyadmin and then answer the following questions with mySQL queries.

Q1) Insert the details of new customer:-

First name : Nancy

Last Name: Perry

Dob : 1988-05-16

License Number: K59042656E

Email : nancy@gmail.com

Q2) The new customer (inserted above) wants to rent a car from 2020-08-25 to 2020-08-30. More details are as follows:

Vehicle Type : Economy SUV

Fuel Option : Market

Pick Up location: 5150 W 55th St , Chicago, IL, zip- 60638

Drop Location: 9217 Airport Blvd, Los Angeles, CA, zip - 90045

Q3) The customer with the driving license W045654959 changed his/her drop off location to 1001 Henderson St, Fort Worth, TX, zip - 76102 and wants to extend the rental upto 4 more days. Update the record.

Q4) Fetch all rental details with their equipment type.

Q5) Fetch all details of vehicles.

Q6) Get driving license of the customer with most rental insurances.

Q7) Insert a new equipment type with following details.

Name : Mini TV

Rental Value : 8.99

Q8) Insert a new equipment with following details:

Name : Garmin Mini TV

Equipment type : Mini TV

Current Location zip code : 60638

Q9) Fetch rental invoice for customer (email: smacias3@amazonaws.com).

Q10) Insert the invoice for customer (driving license:) with following details:-

Car Rent : 785.4

Equipment Rent : 114.65

Insurance Cost : 688.2

Tax : 26.2

Total: 1614.45

Discount : 213.25

Net Amount: 1401.2

Q11) Which rental has the most number of equipment.

Q12) Get driving license of a customer with least number of rental licenses.

Q13) Insert new location with following details.

Street address : 1460 Thomas Street

City : Burr Ridge , State : IL, Zip - 61257

Q14) Add the new vehicle with following details:-

Brand: Tata

Model: Nexon

Model Year : 2020

Mileage: 17000

Color: Blue

Vehicle Type: Economy SUV

Current Location Zip: 20011

Q15) Insert new vehicle type Hatchback and rental value: 33.88.

Q16) Add new fuel option Pre-paid (refunded).

Q17) Assign the insurance : Cover My Belongings (PEP), Cover The Car (LDW) to the rental started on 25-08-2020 (created in Q2) by customer (Driving License:K59042656E).

Q18) Remove equipment_type :Satellite Radio from rental started on 2018-07-14 and ended on 2018-07-23.

Q19) Update phone to 510-624-4188 of customer (Driving License: K59042656E).

Q20) Increase the insurance cost of Cover The Car (LDW) by 5.65.

Q21) Increase the rental value of all equipment types by 11.25.

Q22) Increase the cost of all rental insurances except Cover The Car (LDW) by twice the current cost.

Q23) Fetch the maximum net amount of invoice generated.

Q24) Update the dob of customer with driving license V435899293 to 1977-06-22.

Q25) Insert new location with following details.

Street address : 468 Jett Lane

City : Gardena , State : CA, Zip - 90248

Q26) The new customer (Driving license: W045654959) wants to rent a car from 2020-09-15 to 2020-10-02. More details are as follows:

Vehicle Type : Hatchback

Fuel Option : Pre-paid (refunded)

Pick Up location: 468 Jett Lane , Gardena , CA, zip- 90248

Drop Location: 5911 Blair Rd NW, Washington, DC, zip - 20011

Q27) Replace the driving license of the customer (Driving License: G055017319) with new one K16046265.

Q28) Calculated the total sum of all insurance costs of all rentals.

Q29) How much discount we gave to customers in total in the rental invoice?

Q30) The Nissan Versa has been repainted to black. Update the record.