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Entity-Relationship Report

Entity (attributes…)
- Applicant (apl_ID, name, address, location, region)
  - The solicitor represents the person in need which request a resource of his necessity. It includes a region attribute to help with statistics analysis.
- Resource (res_ID, category, size, gender, battery_type, pack_size, res_name, qty, price, supp_ID)
  - Resource is the entity that lets you know the resource that the solicitor may request to reserve or purchase along with different specifications of the product.
- Supplier (supp_ID, name, address, location, region)
  - The supplier represents the person that has one or more resources available to provide to one or more solicitors. It includes a region attribute to help with statistics analysis.
- Account (account_#, balance, supp_ID)
  - The account entity represents the bank account where the supplier will receive the money for the transactions being processed.
- Credit_card (card_#, exp_date, balance, apl_ID)
  - This entity represents the applicants credit card information such as card number, expiration date and balance.

Relationship
- Reserve_purchase: relates solicitor with resource
  - Resource request entity register a request of a certain resource which gives information of the amount of resource needed, date the request was made, the person doing the request, the supplier that will provide the resource and the id of the resource being requested.
- Provide: relates resource with supplier
  - This relationship permits the solicitor know which supplier can provide the resource being requested.
- Transaction: relates supplier with account
  - This relationship lets the supplier keep record of all the payments he receives to his bank account storing relative information such as the date and the total of the transaction. Also, lets you know if the part has been dispatched and who was the byer.
- Invoice: relates supplier with credit card
  - This relationship lets the supplier validate and charge the applicants credit card by verifying if the balance is greater than the amount it will charge.
- Payment: relates applicant with credit card
  - This relationship keeps the information of the applicant's credit card which he or she will be charged once finished purchasing the necessary resources.