**Mini-Project 2**

Business Information Systems

Create an ERD (Entity-Relationship Diagram) on your assigned business establishment here in Pohnpei. The goal first to identify the Entities and how these Entities relate one to another thus making an ERD as a whole.

**Sales and Inventory**

Make an ERD for their Sales and Inventory of the products of different business establishments below. You take into account that they have Suppliers that supplies their products, the Products itself that has categories itself also like Shoes, Clothing or Jewelry for a shoe store for example. Or Dairy, Food, Vegetables, Beverage, Kitchen Utensils etc for a grocery store for example. The products of course have brands name, price, quantity-on-hand. And finally a product could be sold to any customer through a cashier. When a product is sold it includes when it was sold, how many were sold, price, who sold it etc. Below are the business establishments and the small description what they are selling.

1. **Imelda’s Shoes** – this is a shoe store here in Pohnpei that does not only sale shoes but also sandals and some clothing.
2. **Micro PC** – this is a store in Kolonia that sells computers and software as well. They sell PC, laptop, printers, hard drive, network switch etc.
3. **Movie Land Rental** – this store in Kolonia offers rental and also sold movies in DVD and BD (Blu-Ray Disc) formats. The movies have different genre like Action, Drama, Comedy etc. The customer could rent a DVD or BD and should return on specific date. And if ever it returned beyond the date of return then it will incur a penalty.
4. **A**-**One Fashion** – sells different type of clothing in Kolonia. They have dress, shorts, pants, polo, shoes etc. Their clothing could be for women, men, teen or children. They have also perfumes and little jewelry.
5. **Ace Commercial** – this store in Kolonia is a grocery store that sales different type of products like vegetables, canned goods, meat, beverages, ice cream, kitchen utensils, rice etc. They have different suppliers from different parts of the world like the US and the Philippines.
6. **Ace Hardware** – this store here in Kolonia sells different hardware supplies like hammer, screw drivers, light bulb, paint, etc. Their products have different categories like electronics, electrical, kitchen ware, paints, plumbing tools etc.

**Other Companies that are not Sales and Inventory Type**

1. **Nicho Marine Park** – Make an ERD for their Reservation system. A caller or walk-in could reserve a cottage or more than one cottage for a given date (say from March 30 to 31 for example). They have also different type of categories of cottages like one good for two person or family, one that has an AC (Air Condition) or no AC etc. They have also different services that their customer could avail like canoeing or let’s just say scuba diving.
2. **Mesenieng Financing** – Allows you to loan money finance your own personal finance needs. There are two basically types of loan non-mortgage and mortgage type of loan. Non-mortgage means that you don’t have risk your personal asset like your car or house in case you could not pay. Which therefore also mean that in order for you to qualify you need to have good credit rating record. On other hand if it is a mortgage loan you have to make collateral of your car or house in case you could not pay the amount. That means they are going to get your car or house for example in case you could not pay. There are also different types of interest rate that you could get based on how many number of months you are going to pay the loan. For example if you are going to pay it in 6 months let’s say you need to pay only 5% of your principal (the money you originally borrowed), 12 months 10%, 18 months 15%, 24 months 20%. The ERD should be able to show also the history of payments of loans by the client as well.

**ERD reflects real world entities - 40%**

**Relationships are well defined - 30%**

**Attributes are complete and well defined - 30%**

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**TOTAL 100%**