**Recreation Hub**

Engaging in playful activities during childhood creates cherished memories filled with joy. However, in today's fast-paced world, individuals often find themselves trapped in the relentless cycle of work-life commitments. The pressures of work and life responsibilities contribute to stress, burnout, and neglect of personal well-being. Recreation activities play a crucial role in breaking the monotony of this work-life loop, offering individuals the opportunity to recharge and rejuvenate.

The Idea is to build a database for a RECREATION HUB to capture data of Activities, Equipment, Grounds, Membership details, Vendor information, staff details, Customer data and most importantly Booking Info and revenue generated from it.

For now, we are going to provide following 10 activities listed below:

1.Badminton

2.Table Tennis

3. Snookers/8 ball pool

4.Indoor Cricket

5. Basketball

6. Tennis

7.Indoor Golf

8. Volleyball

9.Bowling

10.Gym

And there are some work rules.

**Guidelines:**

* Each Session lasts 1 hour.
* All the activities are open from 5:00am-10:00am, 4:00pm-11:00pm on Monday – Thursday and 5am – 2am on Friday-Sunday.
* For Every activity only one kit (Equipment) is provided.
* For any activity we are going to have at least 1 or at most 3 grounds.

**Data Requirements**

**1. Customers:**

* Customers are the people who book the grounds which are associated with a particular activity.
* Every Customer has a unique Id, email address and phone number

**Data to capture:**

**C\_Id, Name, Ph#, Email, Gender, Date of Birth (DOB)**

**Relationship with Ground:**

* When a customer books an activity we are going to capture following details

**a unique Booking\_Id, Booked\_Date, Booked\_Time, Duration, and No.of people**

* Customer can book for group of people for any activity.

**2. Staff:**

* Staff are the people who have access/manages to certain resources and have control over those.
* The manager manages the whole hub and have control over every resource.
* Staff manages grounds and equipments.
* Each staff member has a unique Identity (Emp\_Id).
* Each staff can be contacted using their email address and phone number which are unique to every staff member
* Staff are the people who have direct point of contact to the customers and captures the details of every customer who comes into the hub.
* A staff can be a supervisor or a subordinate.
* Any supervisor may have multiple subordinates and any subordinate should have only one supervisor.
* They may belong to any of the roles. (Manager, Admin, Receptionist, Maintenance, Ground Staff)

**Data to capture:**

**Emp\_Id, Name, Email, Ph#, Gender, Date of Birth (DOB), Age, Address, role, Salary.**

**3. Vendor:**

* Vendors are the people who provide equipment to us.
* Each vendor has its respective unique Id.
* We consider a vendor when we purchase at least one equipment.

**Data to capture:**

**V\_Id, Name, Address (street, city, zip#)**

**Relationship to Equipment:**

* When an equipment is purchased, we are going to capture the following details.
* The purchased date, Price paid and quantity of the equipment we brought.

**Data to capture:**

**Details (Cost, Date, Quantity)**

**4. Membership:**

* Any Customer can buy the membership according to their convenience.
* Membership offers extra benefits for customers over an extended period.
* The price for membership varies based on the plan.
* The following plans are:

1. 3-months plan - $30
2. 6-months plan - $50
3. 12-months plan - $100

**Data to capture:**

**MId, Plan, Price, Benefits.**

**Relationship with customer:**

* Whenever a customer purchases a plan, we are going to capture the following details.
* Unique **Purchase Id** which is nothing but transaction Id as well as start and end date
* Here the start Date is nothing but purchased Date.

**Data to Capture:**

**Purchase\_Id (which is nothing but transaction ID), Start Date (Purchase Date), End Date , Payment Method**

**5. Offers:**

* Any membership may have multiple offers over a given period of time.
* It has a start and end dates of offer along with percentage of discount on the membership and unique offer\_id

**Data to Capture:**

**Offer\_Id, Start date, end date, Discount (%).**

**6. Activity:**

* Every Activity has a unique Id and Name
* Each Activity has its respective equipment and grounds associated with it.
* Any activity has one or multiple equipment associated with it.
* We have the information about its price/hour.
* Every activity has one or more grounds associated with it (at least 1 and at most 3 grounds).

**Data to capture:**

**AId, Name, Price/hour.**

**7. Equipment:**

* Every equipment has unique Id and considers as a kit.
* So, Each Activity has its respective kit and quantity.
* Equipment condition is recorded frequently.
* Every Equipment is purchased from a vendor.

**Data to capture:**

**EId, Name, Quantity, Condition, Price**

**8. Grounds:**

* Every ground has its Unique Id and activity associated with it.
* Every ground has its Dimensions, capacity, and condition of the ground.
* Every ground has Sessions (date, time, availability status) of its availability.
* The availability status can have three values (Booked, Available and Maintenance)
* Every ground has its location (Note: location is different from ground Id)
* Every ground is managed by one staff member.

**Data to capture:**

**GId, Capacity, Condition, Sessions (Date, Time, Availability Status)**

**Business Goals:**

1. Owner Can Retrieve the total revenue generated from equipment purchases for each vendor whose total revenue greater than certain amount.
2. The admin can get the number of customers who have purchased a membership plan which has more than 5 customers.
3. The Owner can get total revenue generated from each activity.
4. Managers can find the maximum discount offered for each membership plan, where the maximum discount is greater than certain amount.
5. Staff can get the Total Booking by Gender and Activity.
6. Staff can get the total booking duration by month and ground condition.
7. Managers can get the names of customers who booked for all grounds of a certain Activity.
8. Admin can get the top customers based on the total amount spent on activities compared to other customers.
9. The owner can search for customers whose name starts with a certain character and retrieve their total spending on activities.
10. Managers can retrieve the total number of customers per membership plan
11. Admin can get the details of average price of equipment purchased from each vendor.
12. The Owner can get the top 3 most popular activities based on the number of bookings.
13. Admin can determine the maximum duration for bookings across different activities by using booking details.

**Team Information – Team 15**

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