

CUSTOMER (C-ID, Name, DOB, Gender, ph#, Email, MId)

MEMBERSHIP (MId, plan, Price, Benefits)

CUST\_PURCHASE-DETAILS (C-ID, Start Date, End Date, PID, Payment Method)

OFFERS (MId, offer-ID, start Date, End Date, Discount)

GROUND (GID, Capacity, Condition, AId, Emp-Id)

GROUND-SESSIONS (GID, Time-Date, Availability Status)

BOOKS (C-ID, GID)

ACTIVITY (AId, Name, Price/hr)

EQUIPMENT (EID, Name, price, Qty, Condition, AId, Emp-Id, V-Id)

VENDOR (V-ID, Name, Street, city, Zip#)

EQUIPMENT-PURCHASED FROM (EId, Date, Qty, Cost)

STAFF (Emp-Id, Name, Role, DOB, Salary, Email, Ph#

Gender, Street, Apt#, city, Zip#  
Supervisor-id)

BOOKINGS (C-ID, GID, Booking-ID, Booked-Date-Time, Duration, No. of People)

## CANDIDATE KEYS

1. CUSTOMER :- C-ID, Email, ph#
2. MEMBERSHIP :- MId
3. CUST\_PURCHASE-DETAILS :- { C-ID, Start Date, End Date }  
/ PID, Payment Method
4. OFFERS :- { offer-ID, MId }
5. GROUND :- GID
6. GROUND-SESSIONS :- { GID, Time, Date, Availability status }
7. BOOKS :- { C-ID, GID }
8. ACTIVITY :- AId
9. EQUIPMENT :- EId
10. VENDOR :- V-ID
11. EQUIPMENT\_PURCHASED-FROM :- { EId, Date, Qty, Cost }
12. STAFF :- Emp-Id, ph#, Email
13. BOOKINGS :- { C-ID, GID, Booking-ID, Booked-Date-Time, Duration, No. of people }

# FUNCTIONAL DEPENDENCIES

## 1. CUSTOMER:

C-ID  $\longrightarrow$  Email, ph#

Email  $\longrightarrow$  C-ID, ph#

ph#  $\longrightarrow$  C-ID, Email

C-ID  $\longrightarrow$  ph#

ph#  $\longrightarrow$  Email

Email  $\longrightarrow$  C-ID

C-ID  $\longrightarrow$  Name, DOB, Gender, MId, PId, Payment Method

## 2. MEMBERSHIP:

MId  $\longrightarrow$  MId, plan, Price, Benefits

## 3. CUST\_PURCHASE - DETAILS:

{ C-ID, start Date, End Date }  $\longrightarrow$  Start Date, End Date  
PId, payment Method

## 4. OFFERS

{ MId, offer-ID }  $\longrightarrow$  Start Date, End Date, Discount

{ MId, offer-ID }  $\longrightarrow$  Discount.

5. GROUND:

$GID \longrightarrow AId, Emp-Id$

$GID \longrightarrow GID, Capacity, Condition, AId, Emp-Id$

6. GROUND-SESSIONS:

$\{GID, Time\_Date, Availability\ Status\} \longrightarrow Availability\ Status.$

$\{GID, Time\_Date, Availability\ Status\} \longrightarrow Time\_Date$

7. BOOKS:

$\{C-ID, GID\} \longrightarrow \{C-ID, GID\}$

$\{C-ID, GID\} \longrightarrow C-ID$

$\{C-ID, GID\} \longrightarrow GID$

8. ACTIVITY:

$AId \longrightarrow AId, Name, Price/hr$

$AId \longrightarrow Name$

$AId \longrightarrow Price/hr.$

## 9. EQUIPMENT:

EID  $\longrightarrow$  Aid, Emp-Id, V-Id

EID  $\longrightarrow$  Price, Qty, Condition

EID  $\longrightarrow$  Name, Aid

## 10. VENDOR:

V-ID  $\longrightarrow$  Name

V-ID  $\longrightarrow$  Street, City, Zip#

## 11. EQUIPMENT\_PURCHASED FROM:

{ EId, Date, Qty, Cost }  $\longrightarrow$  Qty, Cost

{ EId, Date, Qty, Cost }  $\longrightarrow$  EId, Date

## 12. STAFF:

Emp-Id  $\longrightarrow$  Name, Role, Salary, Gender

Email  $\longrightarrow$  Emp-Id, ph#

Email  $\longrightarrow$  ph#

ph#  $\longrightarrow$  Emp-Id, Email

ph#  $\longrightarrow$  Emp-Id

Emp-Id  $\longrightarrow$  Email



### 13. BOOKINGS:

{ C-ID, GID, Booking-ID, Booked-Date-Time, Duration, No. of People } →

{ C-ID, GID, Booking-ID, Booked-Date-Time, Duration, No. of People }

{ C-ID, GID, Booking-ID, Booked-Date-Time, Duration, No. of People } →

{ C-ID, Booking-ID }

BCNF

<u>CID</u>	NAME	DOB	Gender	ph#	Email	Mid
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<u>MID</u>	plan	price	Benefits
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<u>CID</u>	startdate	Enddate	PID	payment Method
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<u>MID</u>	offer-ID	start Date	EndDate	Discount
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<u>GrID</u>	Capacity	condition	Aid	Emp_Id
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<u>GrID</u>	Time-Date	Availability Status
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<u>C-ID</u>	GrID
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<u>AID</u>	Name	Price/hr
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<u>EID</u>	Name	price	Qty	condition	Aid	Emp_Id	V-Id
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<u>VID</u>	Name	Street	city	Zip#
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<u>EID</u>	Date	Qty	Cost
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<u>Emp'id</u>	Name	Ade	DOB	Salary	Email	Ph#	Gender	Street	Apt#	city	Zip#	Supervisor_id
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<u>CID</u>	GrID	Booking-ID	Booked-Date-Time	Duration	No. of People
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# TEAM 15

ASA UDAY MANI SAI

ANJUM MEHNAZ AKUMALLA