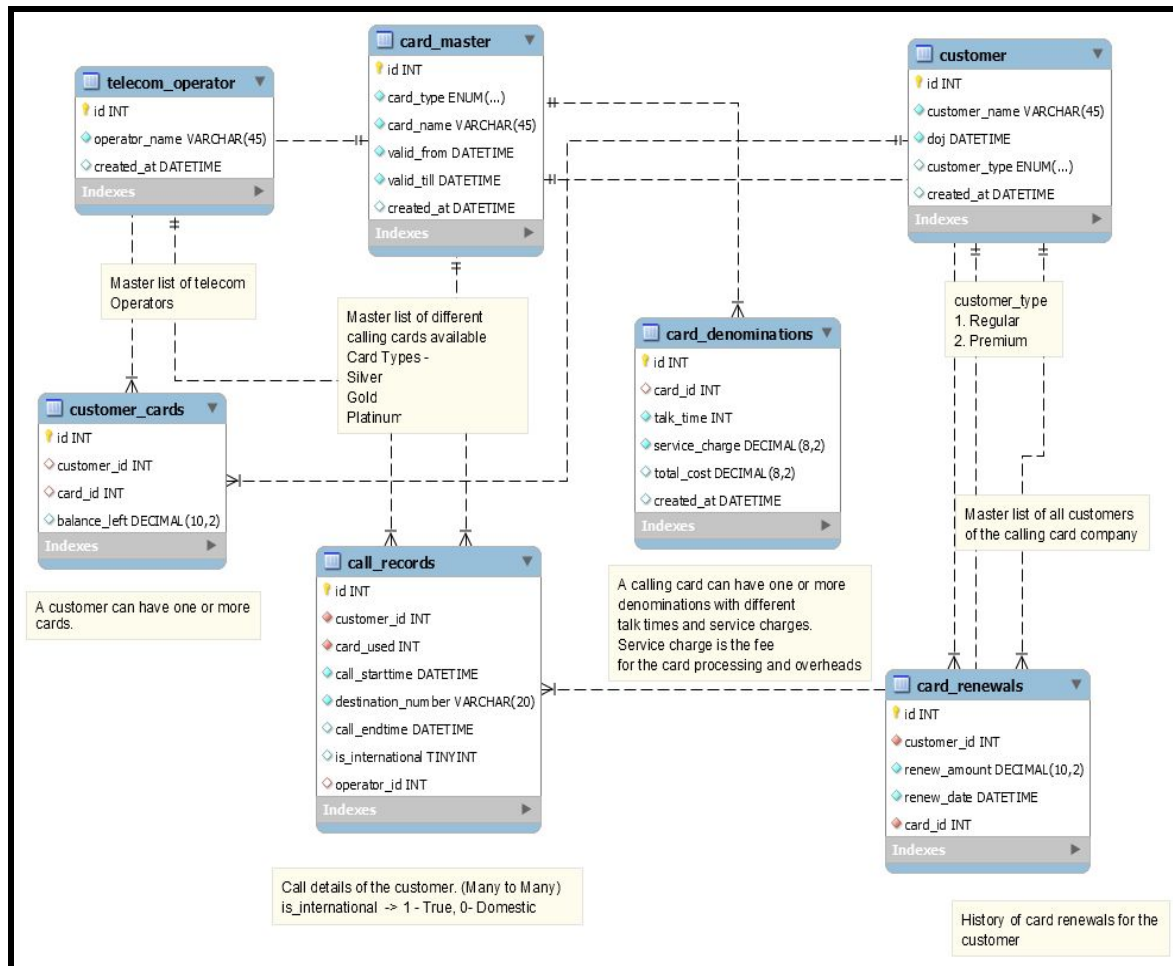


Task 1:

A certain telecom company issues calling cards of various denominations and types. The customer can buy a card and use them to make a call. The card can be renewed on expiration of the amount on the card. A customer can have more than one card in his account. The call duration, the card used for the call, the time of call are recorded. Review the data model below and answer the following questions :



Q1. Write a query to find the list customer_name, customer_id, different cards owned and balance left on each card for all Premium customers?

Q2. List the total renewals of customers by different card types. Output should contain customer_id, card_type, card_name and total renewd_amount?

Q3. List total calls made between 4th April 2018 and 5th May 2018 for all premium customers whose call duration is greater than 10 minutes by day. Output should contain total calls, date?

Q4. List total calls, card used, total call duration, customer name, current card balance for all customers for the month of April 2018 by customer, card type ?

Task 2:

Q1. What are different types of joins?

Given the table structure below , illustrate each join -

Faq_questions

Id (pk)
Question (unique)
Is_visible
Created_at

Category_faq_mapping

Id (pk)
Category_id
Faq_id (Fk from faq_questions)
Is_visible
Faq_type
Created_at

Category_answers

Id (pk)
Answer
faq_mapping_id(fk from category_faq_mapping)
Created_at

partner_questions

Id (pk)
Partner_id
Faq_mapping_id (Fk from category_faq_mapping)

Q2. Display all faq_id, questions for a given partner_id. What kind of join is it?

Q3. Display questions,partner_id for a given category_id and all partners?

Q4. Display question_id, question, answer_id, answer for all partners?

Task 3:

Consider the table structure :

Orders

Order_id pk

Order_type enum('Food','Bus','Recharge','Cabs') [Means category]

Order_date

Company_id enum('Ola','Uber','Ezpay','Redbus','Swiggy','Zomato')

Customer_id

Order_value

Order_status enum('Pending','Cancelled','Success','Wait On Merchant')

Discount

Q1. Get total orders and total order value per day for the month of March 2018 ?

Q2. Get Total orders,order value per day for the month of March 2018 for each order type ?

Q3. Get average order_value for the month of March 2018 for all successful orders for each category?

Task 4: Write steps or queries

Consider these tables:

> **Orders (order_id,category_id,customer_id,order_date,order_value,discount)**

> **Customer (customer_id,customer_name,mobile,email)**

> **Categories (category_id,category_name,desc)**

Write all the steps to create an aggregated table with the following fields:

> Table 1 (A flat table which contains the following information)

Customer_name,customer_email,category_name,order_value,order_date,order_id

> Table 2 (Total discount value availed by customer - Aggregated table)

Customer_name,customer_email,total_discount

> Table 3 (Month and category wise order_value - Aggregated table)

Month,category_name,total_order_value

