Data base schema Diagram: An ER diagram representing relationships blw tables SQL script for table creation: SQL code for the create each table

Stored procedures and triggers:

SQL scripts for the stored procedures and triggers.

mentioned above.

Query scripts: SQL code for the required analysis queries.

Documentation: A document explaining the logic behind the stored procedures, queries, and trigger

Submission

submit the database schema, SQL scripts, and documentation.

as a single zip file.

on the total amount of the stay and other criteria. Automatically add points to the customer's total after each stay tier upgrade procedure:

Implement a procedure

SP-upgrade_tier that checks each customer's accumulated points and upgrades their tier if upgrade occurs

Queries to Analyze loyalty program performance

write SQL queries to gather insights on:

Customer Retention Rate:

No. of returning customers with a certain period

Reward utilization: Number of rewards issued vs. redeemed tier Distribution: No. of customers in each tier (e.g Bronze, silver, Gold).

Tier Upgrade Notification:

create a trigger to notify customers (by updating a notifications table or a simple log) when they achieve a new tier.

Reward Milestone Notification: set a trigger to notify customers when they to notify customers when they enough points to redeem specific rewards

points_earned

Rewards: track each customer's rewards earned and redeemed

reward_id (Primary key)

customer_id (foreign key)

reward_type e.

customer_id (Reward_date)

points_required

status (e.g "redeemed", "active")

tier: Defines different tiers and point thresholds.

tier_id (primary key)

tier_name (e.g. Bronze, silver, gold)

points_threshold (points needed to qualify for this their)

tier_benfits

tier_upgrades: Logs any tier changes for each customer.

upgrade_id (Primary key)

customer_id (foreign key)

previous_tier, new_tier

upgrade_date

Stored procedures

calculate points for each stay:

Implement a stored procedure.

sp_calculate_points to calculate points earned based

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Assignment :- 1

DBMS - CSA0593

Hotel chain customer loyality program Develop a database to manage customer loyality programs for a hotel chain tracking stays rewards, and their status.

Requirements: Design tables for customers stays, rewards and their upgrades. Implement stored procedures to calculate points for each stay and automatically upgrade tiers based on points. write queries to analyze loyalty.

Assignment Outline

Database Design:

Objective: create a relational database schema that includes tables for tracking customers, their stays, rewards and tier upgrades.

Tables to create:

customers: stores information about each customer.

- customer_id (Primary key)
- first_name, last_name
- email, phone_number
- join_date
- current_tier (foreign key from tier tables)

stays: tracks each stay by a customer

- stay_id (primary key)
- customer_id (foriegn key)
- check_in_date, check_out_date
- room_type, total_amount