Resort Management System

Dinesh Sai Pappuru Sejal Hirji Gothi

SQL DDL Queries: CREATE TABLE `bill` (`customer_id` int NOT NULL, `bill` int NOT NULL, PRIMARY KEY (`customer_id`), CONSTRAINT `bill_ibfk_1` FOREIGN KEY (`customer_id`) REFERENCES `customer` (`customer_id`) CREATE TABLE `booking` (`booking_id` int NOT NULL AUTO_INCREMENT, `customer_id` int DEFAULT NULL, `room_id` int DEFAULT NULL, `check_in` datetime DEFAULT NULL, `check_out` datetime DEFAULT NULL, 'meal plan id' int DEFAULT NULL, PRIMARY KEY ('booking_id'), KEY `room_id` (`room_id`), KEY `booking_ibfk_2` (`customer_id`), CONSTRAINT `booking_ibfk_1` FOREIGN KEY (`room_id`) REFERENCES `rooms` (`room_id`), CONSTRAINT `booking_ibfk_2` FOREIGN KEY (`customer_id`) REFERENCES `customer` (`customer_id`) CREATE TABLE `customer` (`customer_id` int NOT NULL AUTO_INCREMENT, `first_name` char(20) NOT NULL, `last_name` char(20) NOT NULL, `address` varchar(50) DEFAULT NULL,

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`contact` bigint NOT NULL,
 `date` datetime NOT NULL,
 PRIMARY KEY (`customer_id`),
 UNIQUE KEY `contact_UNIQUE` (`contact`)
CREATE TABLE `department` (
 `department_id` int NOT NULL AUTO_INCREMENT,
 `resort_id` int DEFAULT NULL,
 `dep_name` varchar(20) NOT NULL,
 'description' varchar(50) DEFAULT NULL,
 PRIMARY KEY ('department_id'),
 KEY `resort_id` (`resort_id`),
 CONSTRAINT `department ibfk 1` FOREIGN KEY (`resort id`) REFERENCES `resort` (`resort id`)
CREATE TABLE 'employee' (
 `employee_id` int NOT NULL AUTO_INCREMENT,
 `name` varchar(20) NOT NULL,
 `age` int NOT NULL,
 `salary` int NOT NULL,
 `department_id` int NOT NULL,
 `mobile_no` bigint NOT NULL,
 PRIMARY KEY (`employee_id`),
 KEY `department_id` (`department_id`),
 CONSTRAINT
               `employee_ibfk_1` FOREIGN KEY
                                                      ('department_id') REFERENCES
                                                                                      `department`
(`department_id`)
CREATE TABLE `feedback` (
 `customer_id` int NOT NULL,
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`rating` decimal(2,1) NOT NULL,
 `feedback` varchar(50) DEFAULT NULL,
 PRIMARY KEY (`customer_id`),
 CONSTRAINT `feedback_ibfk_1` FOREIGN KEY (`customer_id`) REFERENCES `customer` (`customer_id`)
CREATE TABLE `meal_plan` (
 `meal_plan_id` int NOT NULL AUTO_INCREMENT,
 `resort_id` int NOT NULL,
 `name` varchar(50) NOT NULL,
 'description' varchar(50) DEFAULT NULL,
 `cost` int NOT NULL,
 PRIMARY KEY (`meal_plan_id`),
 KEY 'resort id' ('resort id'),
 CONSTRAINT `meal plan ibfk 1` FOREIGN KEY (`resort id`) REFERENCES `resort` (`resort id`)
CREATE TABLE `membership` (
 `contact` bigint NOT NULL,
 'discount' int NOT NULL,
 PRIMARY KEY ('contact'),
 CONSTRAINT `membership_ibfk_1` FOREIGN KEY (`contact`) REFERENCES `customer` (`contact`)
)
CREATE TABLE `resort` (
 `resort_id` int NOT NULL AUTO_INCREMENT,
 `resort_name` varchar(20) NOT NULL,
 `location` varchar(50) NOT NULL,
 `contact_info` int DEFAULT NULL,
 `rating` int DEFAULT NULL,
 PRIMARY KEY ('resort id')
```

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)
CREATE TABLE `room_status` (
 `room_id` int NOT NULL,
 `status` tinyint(1) NOT NULL DEFAULT '0',
 PRIMARY KEY (`room_id`),
 CONSTRAINT `room_status_ibfk_1` FOREIGN KEY (`room_id`) REFERENCES `rooms` (`room_id`)
CREATE TABLE `room_type` (
 `room_id` int NOT NULL,
 `room_type` varchar(20) NOT NULL,
 `discount_percent` int NOT NULL,
 `smoke_friendly` tinyint(1) NOT NULL DEFAULT '1',
 'pet_friendly' tinyint(1) NOT NULL DEFAULT '1',
 `cost` int NOT NULL,
 PRIMARY KEY (`room_id`),
 CONSTRAINT `room_type_ibfk_1` FOREIGN KEY (`room_id`) REFERENCES `rooms` (`room_id`)
CREATE TABLE `rooms` (
 `room_no` int NOT NULL,
 `room_id` int NOT NULL AUTO_INCREMENT,
 `resort_id` int NOT NULL,
 PRIMARY KEY (`room_id`),
 KEY `resort_id` (`resort_id`),
 CONSTRAINT `rooms_ibfk_1` FOREIGN KEY (`resort_id`) REFERENCES `resort` (`resort_id`)
CREATE TABLE `utilities` (
 `utility_id` int NOT NULL AUTO_INCREMENT,
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`resort_id` int NOT NULL,
 `utility_name` varchar(20) NOT NULL,
 'decription' varchar(50) DEFAULT NULL,
 `status` tinyint(1) NOT NULL DEFAULT '0',
 PRIMARY KEY (`utility_id`),
 KEY `resort_id` (`resort_id`),
 CONSTRAINT `utilities_ibfk_1` FOREIGN KEY (`resort_id`) REFERENCES `resort` (`resort_id`)
Views:
CREATE VIEW employee_info AS
  SELECT
    name, age, mobile_no
  FROM
    Employee
CREATE VIEW available_utilities AS
  SELECT
    utility_name
  FROM
    utilities
  WHERE
    status = 1;
Triggers:
CREATE DEFINER=`root`@`localhost` TRIGGER `update_booking_on_customer` AFTER INSERT ON
`customer` FOR EACH ROW begin
           declare temp int;
    set @temp = (select MAX(customer_id) from customer);
           insert into booking(customer_id) values (@temp);
end
```

Functions:

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Delimiter $$
create function bill_amount_after_discount(cont bigint)
returns int
deterministic
begin
     declare discounted_bill int;
  select (b.bill - ((m.discount/100)* b.bill)) into discounted_bill
  from membership m, customer c, bill b
  where m.contact = c.contact and
              c.customer_id = b.customer_id and
      m.contact = cont;
     return discounted_bill;
end $$
delimiter;
delimiter $$
create function room_availibity(room_number int)
returns varchar(20)
deterministic
begin
     declare status int;
  declare output varchar(20);
  select rs.status into status
  from rooms r, room_status rs
  where r.room_id = rs.room_id and
              r. room_no = room_number;
     if status = 1 then
             set output = 'Available';
  else
```

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set output = 'Not Available';
     end if;
  return output;
end $$
delimiter;
delimiter $$
create function peak_time_of_the_year()
returns varchar(20)
deterministic
begin
     declare month varchar(20);
     select monthname(check_in) into month
     from booking
     group by Month(check_in)
     order by Month(check_in) desc
     limit 1;
     return month;
end $$
delimiter;
Stored Procedure:
delimiter $$;
create procedure get_membership_discount(in contact bigint)
begin
     select first_name, last_name, discount
            from customer c, membership m
     where c.contact = m.contact
end$$
delimiter;
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delimiter $$
create procedure get_most_used_meal_plan_details()
begin
    select *
  from booking b, meal_plan m
  where b.meal_plan_id = m.meal_plan_id
  group by b.meal_plan_id
  order by b.meal_plan_id desc
  limit 1;
end$$
delimiter;
delimiter $$
create procedure get_department_employees( in dept_name varchar(20))
begin
    select d.dep_name, count(e.employee_id) as no_of_employees
  from department d, employee e
  where d.department_id = e.department_id and d.dep_name = dept_name
  group by e.department_id;
end$$
delimiter;
```