ASYAN GALLERY

Rental Boutique System

MY TEAM

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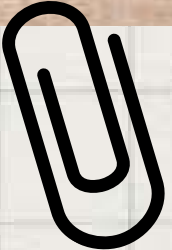Objective

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INTRODUCTION

Asyan Gallery is an online boutique that provides a variety type of clothes like costume, tuxedos and dresses for rental services. The boutique management will manage all the clothing rental business. We will control the rental record of the costumes easily using a detailed rental business system. The objective of this project is to create a system that can be access to fill in and store the customers and costume rental informations. So that the rental management can be more efficient and effective for the staff and customers.
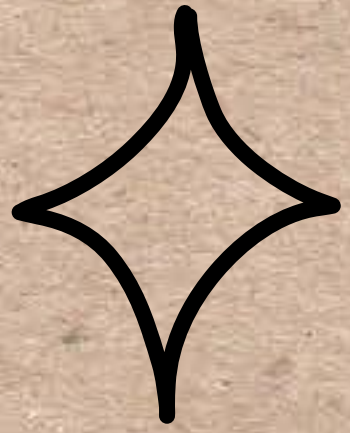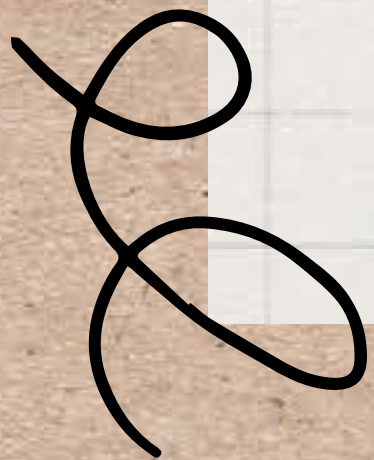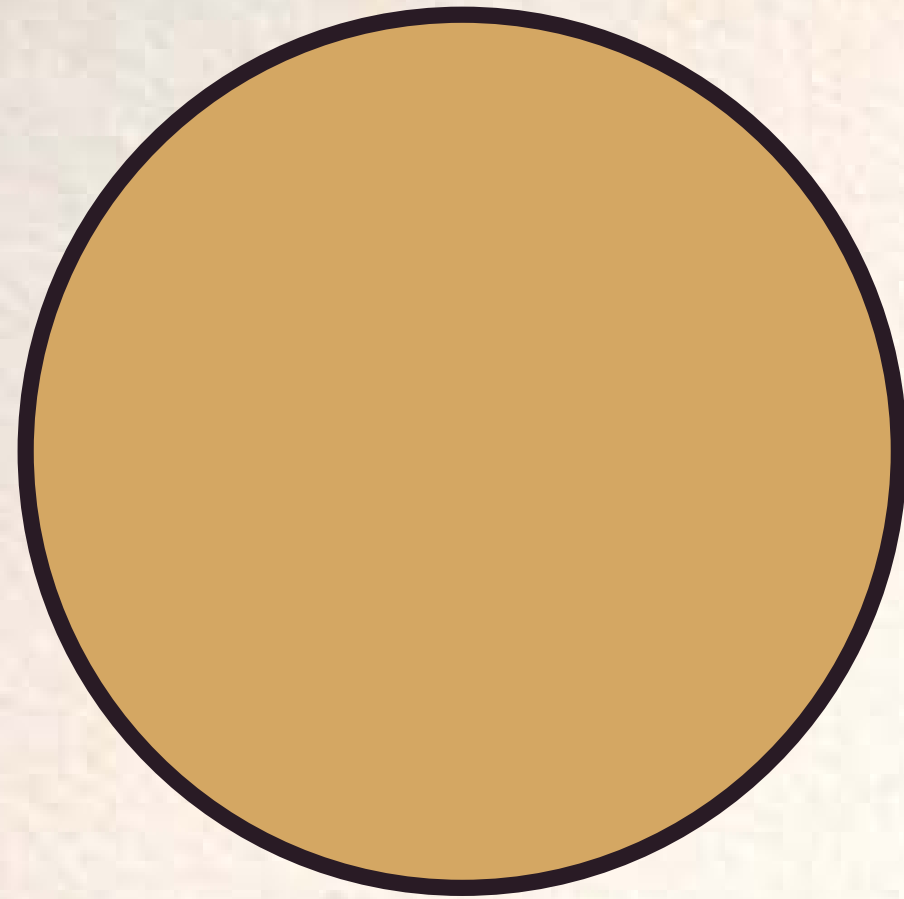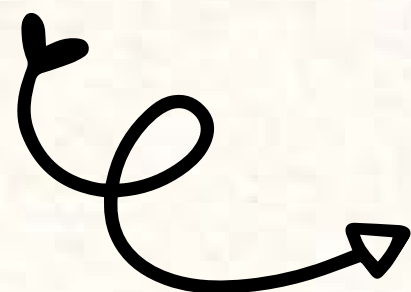
PROBLEM STATEMENT
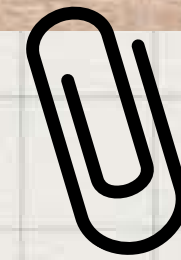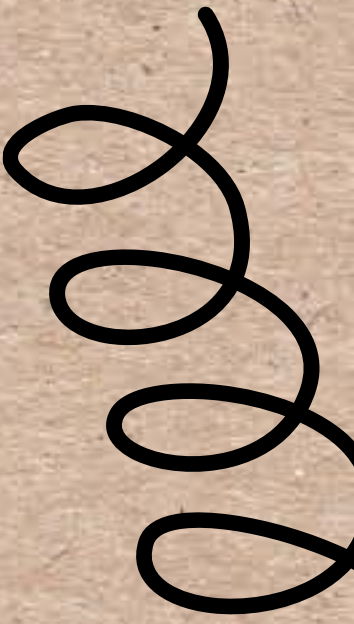
- Customer details cannot be stored neatly.
- Cannot detect late return of clothes without additional fees, payment problems.
- The staff cannot identify either the costume available or not at a given time. Double tenancies will happen.

Objective

This project is proposed with the following objectives :

- To design, test and implement a model of database for online costume rental.
- To manage a search column to search availability of costumes to rent.
- To develop a system for online costume rental.
- Implementing database as a way to have a better management of costume rental to lessen the difficulties that the employees will face while managing the rent.
- To generate rental management and customer information from the more efficient and effective database.

Asyan Gallery
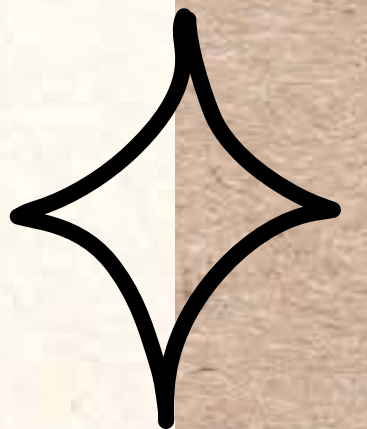
SCOPES

Modules to be developed:

- To make it easier for employees to check customer details such as the customer's personal information and their rental.
- Customers can choose the costume they want to rent without going to the boutique.
- It will also notify the customer of whether that costume is available or not.

Target Users:

Anime or cartoon fans
- Cosplay Runway etc.
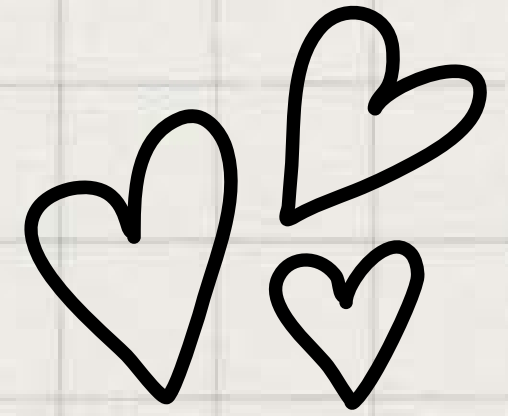
Dresses and tuxedos
- Wedding
- Prom night
- Graduation event

Costume
- Halloween celebration
- Birthday Party
- Christmas Day

OUR PRODUCT

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SIGNIFICANCE

- This system will keep the customers' personal details, rental and maintain the information in the system.
- This will also help the admin to keep track of the rental record in the system. For example, how many clothes that have been rented, how long the rental is going on and what type of costume that want to be rented.
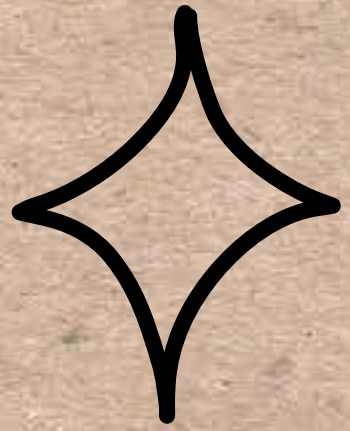
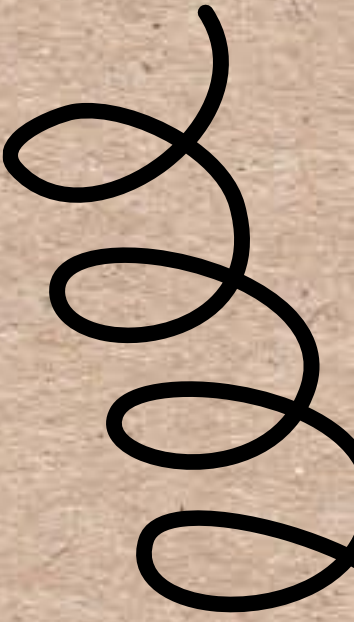# ENTITY RELATION DIAGRAM
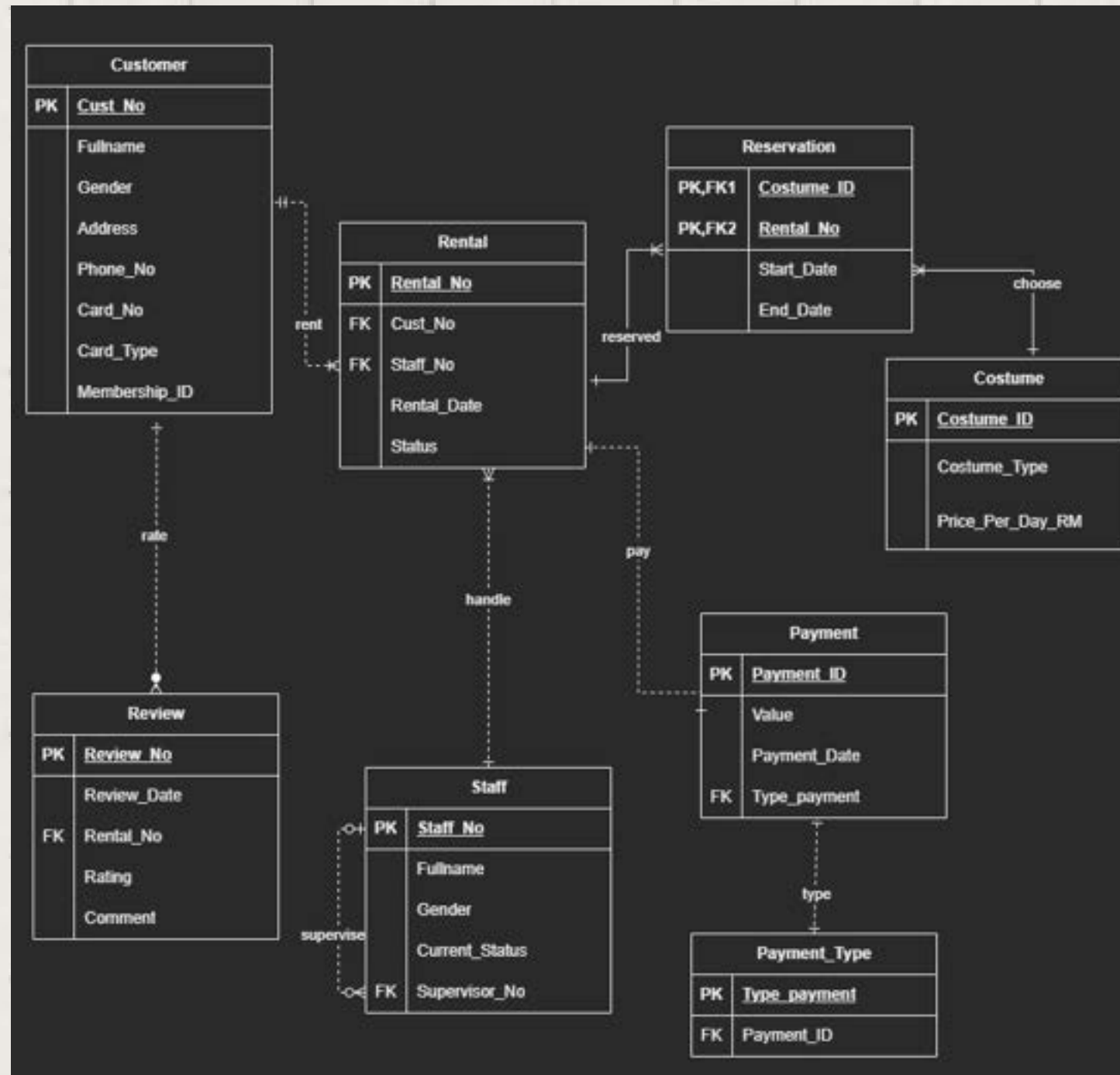
BUSINESS RULES

- Each customer can choose one or many costumes. Each costume can be chosen by one and only one customer.
- Each customer can make one or many rentals. Each rental can be made by one customer.
- Each customer can make one or many reservations. Each reservation can be reserved by one customer.
- Each rental can make a payment by each customer. Each payment is for one rental.
- Customers can choose a payment type which is e-wallet, online banking, credit and debit.
- One or many rentals will be handled by one and only one staff member. Each staff member can handle one or many rentals.
- One staff member will be supervised by many supervisors. Each supervisor can have one staff member.
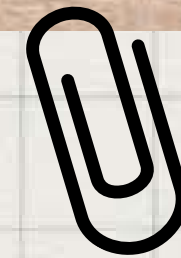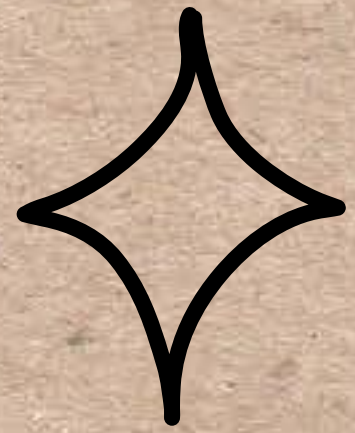- Each customer can make a review. Many reviews can be made by each customer.

1. QUERY

Retrieve staff's number and full names whose current status is 'Active'
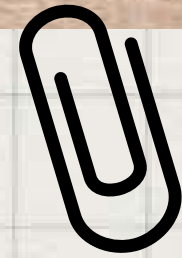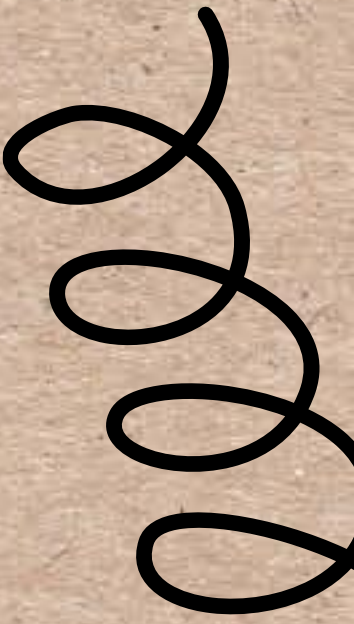
SQL statement (SQL) :

select staff_no, fullname, current_status
from staff
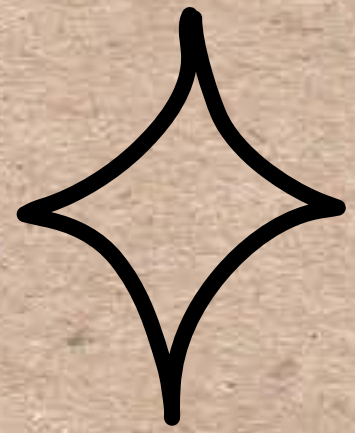where current_status like '%active%'

2.QUERY

Retrieve the rental number and the count of rentals with a status containing the word 'Refund' from the rental table. Group the results by the rental number.
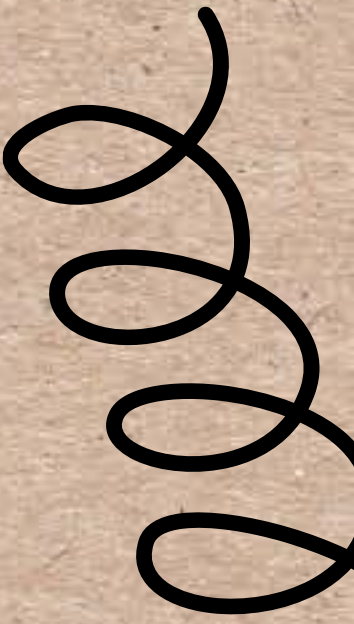
SQL statement (SQL):

```
select rental_no, count(status)
from rental
where status like '%Refund%'
group by rental_no;
```
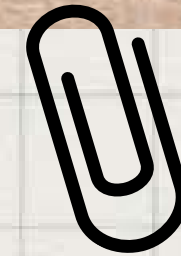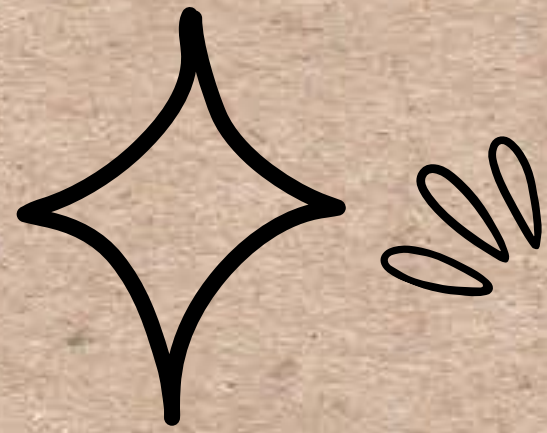
3.QUERY

Retrieve the name, gender and status of staff who handled reservation made by guest from Kuala Lumpur.

```
SQL statement (SQL):


select s.fullname,s.gender,s.current_status
from staff s join rental r
on s.staff_no=r.staff_no
join customer t
on t.cust_no = r.cust_no
where t.address like '%Kuala Lumpur%'
```
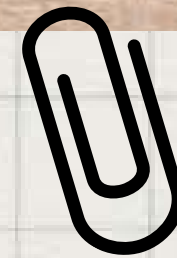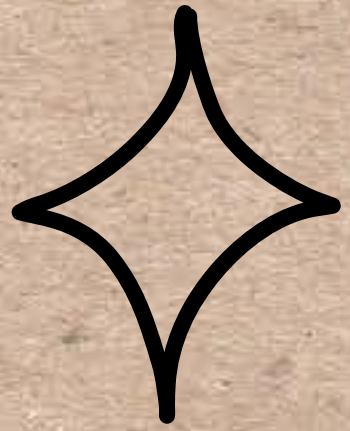
4.QUERY

Construct the relational algebra expression and SQL multi-row subquery statement to display the reservation number, reservation date and reservation status of the 'cosplay' and 'christmas' types.

```
SQL statement (SQL):

select rental_no, rental_date, status
from rental
where rental_no in
(
    select rental_no
    from reservation
    where costume_id in


    (
    select costume_id
    from costume
    where costume_type in ('Cosplay','Christmas')
    )
);
```
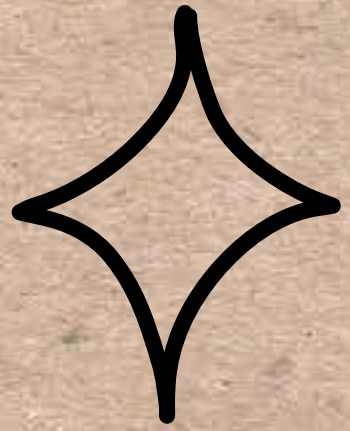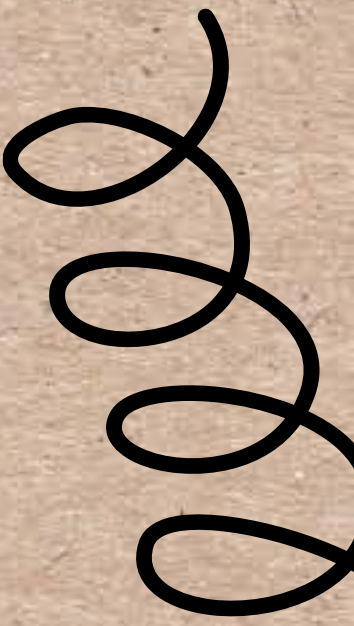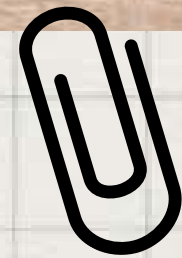
5.QUERY

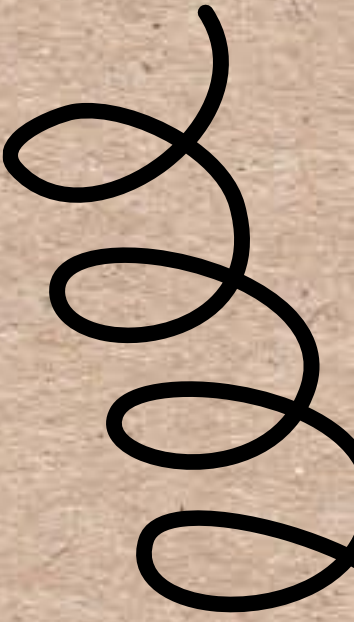Retrieve the minimum and maximum price per day for all
Costume

SQL statement (SQL):

select min (price_per_day_rm) "MINIMUM PRICE PER DAY" ,
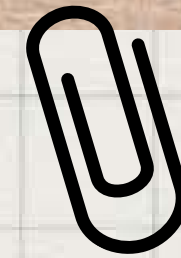 max(price_per_day_rm) "MAXIMUM PRICE PER DAY"
 from Costume;

6.QUERY

Display the rental details that took place in September and received excellent comments?
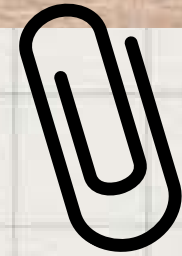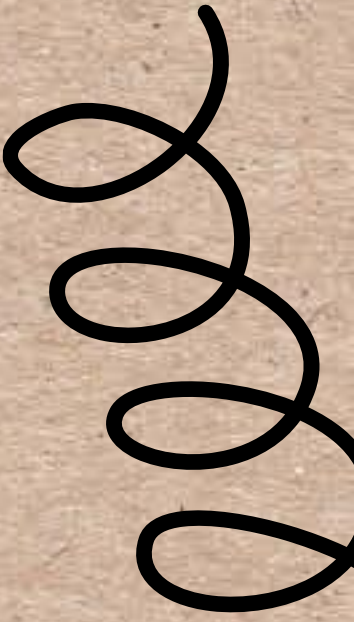
SQL statement (SQL):

SELECT R.Rental_No, R.Rental_Date, RV.Review_No,
RV.Review_Date, RV.Rating, RV.Comments
FROM RENTAL R
JOIN REVIEW RV ON R.Rental_No = RV.Rental_No
WHERE to_char(RENTAL_DATE , 'MONTH') like
'%SEPTEMBER%' AND Comments like '%Excellent%' ;
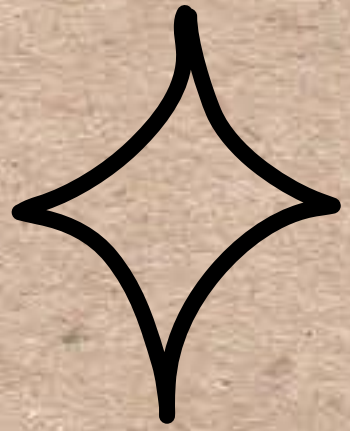
7.QUERY

Retrieve all the type payment and total sale of each type payment.

SQL statement (SQL):

select type_payment, sum(value)
from payment
group by type_payment
order by sum(value)DESC;
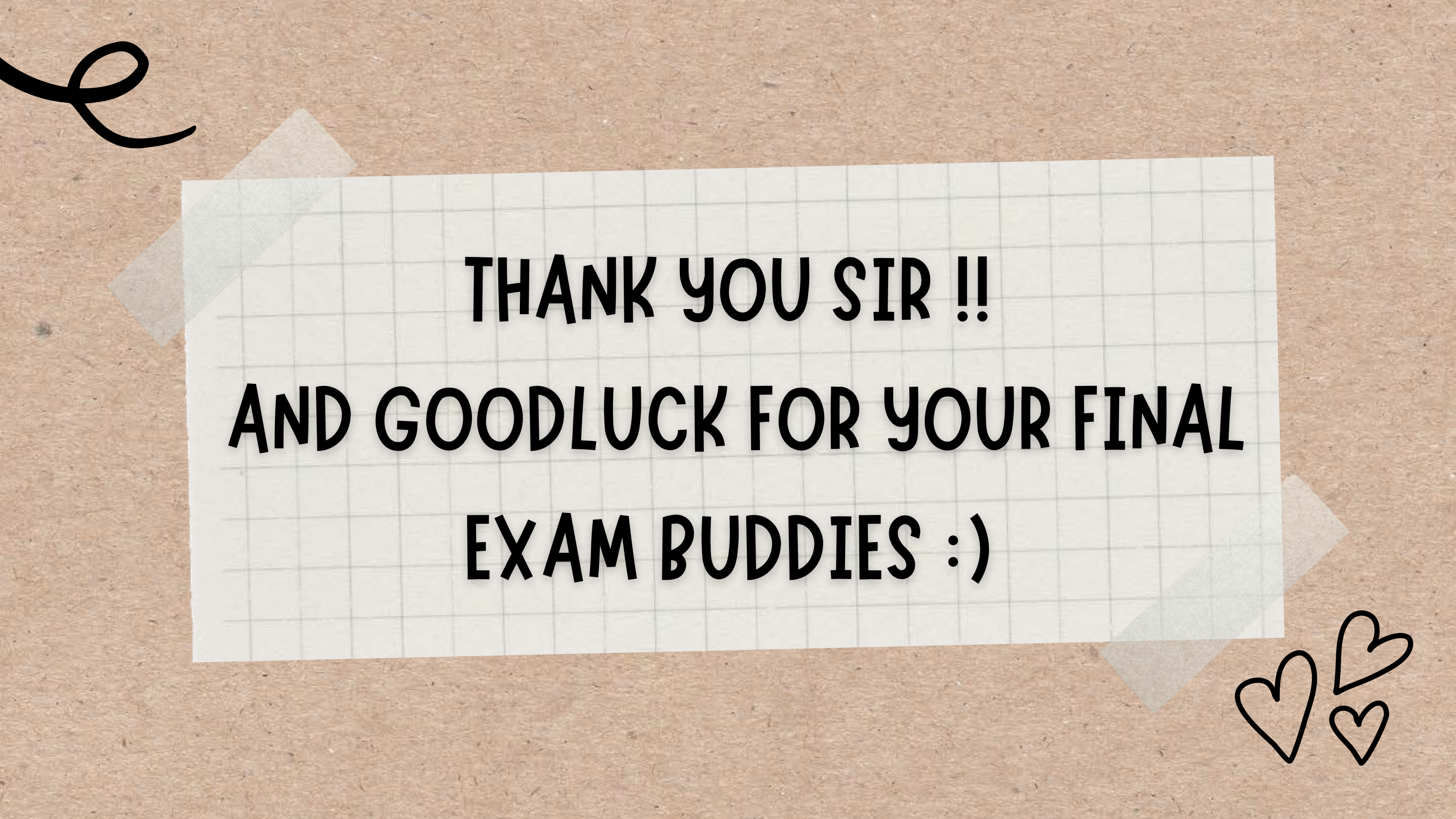
CONCLUSION

system contribution

- Customer's details and boutique's data are stored and well organized.
- Easy for staff members to identify customer's details
- Enables easier management of certain business processes so as to save on time and labor.

system drawbacks

- May have some lack of security.
- Systems break down, interrupting smooth operations.
- Can cost data conversion.

suggestions for improvement

- Companies are responsible for handling and correcting the defective operation of the systems in order to avoid loss of customer loyalty.
- Centralized systems to hold all the data from both staff's members and customers in one place.

THANK YOU SIR !!
And goodluck for your final exam buddies :)