

## Project Name: BEAUTY PARLOUR MANAGEMENT SYSTEM

## Course Name: INTRODUCTION TO DATABASE

## Section: [I]

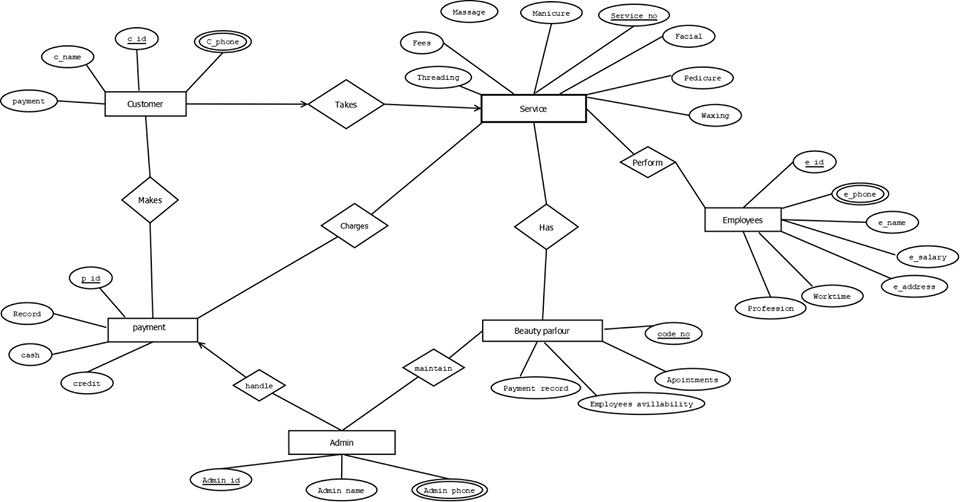
## Group members:

|  |  |
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***Scenario:***

In a beauty parlor management system, customers can have many treatments from the parlor. A customer is identified by a unique customer id, customer name, payments and phone number. Services is identified by unique service no, fees, manicure, pedicure, waxing, threading, massage. Customers can make payment in many ways. Payment is identified by a unique payment id, record, cash, Credit. Payments can be ready and paid in many ways into beauty parlors. On the other hand, many treatments can be done in the beauty parlors. Beauty parlor is identified by a unique code no, appointments, employees’ availability and payment records. Treatments can be performed by many employees. Employees can be recognized by a unique id, Phone-number, name, salary, work-time, profession, address. In a beauty parlor there is an admin who maintains the beauty parlor and takes payment from the customer after the service. An admin can be identified by name, phone and their ID.

ER Diagram:



**Normalization:**

**Makes:**(c\_id, c\_phone,c\_name,payment,p\_id,record,cash,credit)

**1NF:** c\_phone is a multivalued attribute

**2NF:** c\_id, c\_name, c\_phone, payment

p\_id, record, cash, credit

**3NF:**c\_id, c\_name, c\_phone

P\_id, payment

P\_id, record

C\_id, cash, credit

Table list for makes-

1.c\_id, c\_name, *p\_id*

2.c\_id, c\_phone

3.p\_id, payment

4.p\_id, record, *c\_id*

5.c\_id, cash, credit

**Takes:** (c-id, c\_phone, c\_name, payment, service\_no, facial manicure, massage, fees, threading, pedicure, waxing)

**1NF:** c\_phone is a multivalued attributed

**2NF:** c\_id, c\_phone, c\_name, payment

Service\_no, facial manicure, massage, fees, threading, pedicure, waxing

**3NF:** c\_id, c\_name, c\_phone

P\_id, payment

Service\_no, manicure, facial, pedicure, waxing, massage, threading

F\_id, fees

**Table list for takes:**

1.c\_id, c\_name, *service \_no, f\_id*

2.c\_id, c\_phone,

3.service\_no, manicure, facial, pedicure, waxing, massage, threading, *F\_id*

4.f\_id, fees

Charges: (p\_id, record, cash, credit, service\_no, facial manicure, massage, fees, threading, pedicure, waxing)

**1NF:** There is no multivalued attribute

**2NF:** p\_id, record, cash, credit

service\_no, facial manicure, massage, fees, threading, pedicure, waxing

**3NF:** p\_id, record

C\_id, cash, credit

service\_no, facial manicure, massage, threading, pedicure, waxing

F\_id, fees

**Table list for changes:**

1.p\_id, record, *service\_no, c\_id, f\_id*

2. C\_id, cash, credit

3. service\_no, facial manicure, massage, threading, pedicure, waxing, *F\_id*

4. F\_id, fees

**Handle:** (p\_id, record, cash, credit, admin\_id, admin\_name, admin\_phone)

**1NF:** admin\_phone is a multivalued attribute

**2NF:** p\_id,record, cash, credit

admin\_id, admin\_name, admin\_phone

**3NF:** p\_id, record

C\_id, cash, credit

admin\_id, admin\_name

admin\_id, admin\_phone

**Table list for handle:**

1. p\_id, record*, C\_id, admin\_id*

2. C\_id, cash, credit

3. admin\_id, admin\_name

4. admin\_id, admin\_phone

**Maintain:** (admin\_id, admin\_name, admin\_phone, code\_no, payment\_record, employees\_availability, appointments)

**1NF:** admin\_phone is a multivalued attribute

**2NF:** admin\_id, admin\_name, admin\_phone

code\_no, payment\_record, employees\_availability, appointments

**3NF:** admin\_id, admin\_name

admin\_id, admin\_phone

code\_no, appointments, employees\_availability

p\_id, payment record

**Table list for Maintain:**

1. admin\_id, admin\_name, *code\_no, p\_id*

2. admin\_id, admin\_phone

3. code\_no, appointments, employees\_availability, *p\_id*

4. p\_id, payment record

**Has:** (service\_no, facial manicure, massage, fees, threading, pedicure, waxing, code\_no, payment\_record, employees\_availability, appointments)

**1NF:** There is no multivalued attribude

**2NF:** service\_no, facial manicure, massage, fees, threading, pedicure, waxing

code\_no, payment\_record, employees\_availability, appointments

**3NF:** service\_no, facial manicure, massage, threading, pedicure, waxing

F\_id, fees

code\_no, appointments, employees\_availability

p\_id, payment record

**Table for Has:**

1.service\_no, facial manicure, massage, threading, pedicure, waxing, *F\_id*, *code\_no*, *p\_id*

2. F\_id, fees

3. code\_no, appointments, employees\_availability, *p\_id*

4. p\_id, payment record

**Perform:** (service\_no, facial manicure, massage, fees, threading, pedicure, waxing, e\_id, p\_phone,e\_name, e\_salary, e\_address, worktime, profession)

**1NF:** e\_phone is a multivalued attribuide

**2NF:** service\_no, facial manicure, massage, fees, threading, pedicure, waxing

e\_id, e\_phone,e\_name, e\_salary, e\_address, worktime, profession

**3NF:** service\_no, facial manicure, massage, threading, pedicure, waxing

F\_id, fees

e\_id, e\_phone, e\_name, profession

e\_id, e\_salary, e\_address

w\_id, worktime

**Table list for perform:**

1. service\_no, facial manicure, massage, threading, pedicure, waxing, *F\_id*, *e\_id*

2. F\_id, fees

3. e\_id, e\_name, profession, e\_salary, *w\_id, a\_id*

4. e\_id, e\_phone

4. a\_id, e\_address

5. w\_id, worktime

**Table list:**

1.c\_id, c\_name, c\_id

2.c\_id, c\_phone

3.p\_id, payment

4.p\_id, record, c\_id

5.c\_id, cash, credit

6.c\_id, c\_name, c\_id

7.c\_id, c\_phone

8.service\_no, manicure, facial, pedicure, waxing, massage, threading

9.F\_id, fees

10.p\_id, record, c\_id

11.c\_id, cash, credit

12.service\_no, manicure, facial, waxing, massage, threading

13.F\_id, fees

14.p\_id, record, c\_id

15.c\_id, cash, credit

16.Admin\_id, Admin\_name, A\_id

17.A\_id, Admin\_phone

18.Admin\_id, Admin\_name, A\_id

19.A\_id, Admin\_phone

20.code\_no, appoinments, employees, availability, p\_id

21.p\_id, payment record

22.service\_no, manicure, massage, threading, facial, pedicure, waxing

23.F\_id, fees

24.code\_no, apoinments, employees, availability, p\_id

25.p\_id, payment record

26.service\_no, manicure, massage, threading, facial, pedicure, waxing

27.F\_id, fees

28.e\_id, e\_phone, e\_name, profession, e\_id

29.e\_id, e\_salary, e\_address

30.w\_id, worktime

## Final Table List:

1.c\_id, c\_name, c\_id

2.c\_id, c\_phone

3.p\_id, payment

4.p\_id, record, c\_id

5.c\_id, cash, credit

6. service\_no, manicure, facial, pedicure, waxing, massage, threading

7. F\_id, fees

8.Admin\_id, Admin\_name, A\_id

9.A\_id, Admin\_phone

10.code\_no, appoinments, employees, availability, p\_id

11.p\_id, payment record

12.e\_id, e\_phone, e\_name, profession, e\_id

13.e\_id, e\_salary, e\_address

14.w\_id, worktime

15.c\_id

16.A\_id

17.p\_id

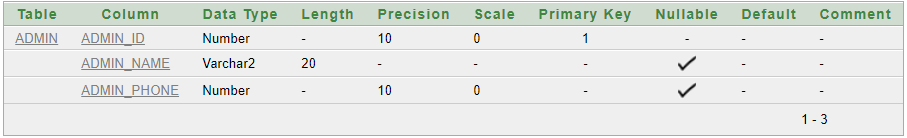
18.e\_id

***Table Creation:***

**Admin Table:**

create table Admin (Admin\_id number (10) , Admin\_name varchar2(20), Admin\_phone number(10));

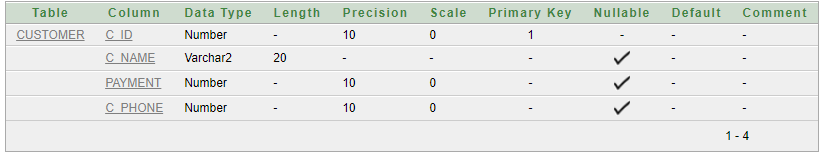
alter table Admin add constraint aw primary key (Admin\_id)



**Customer Table:**

create table customer (c\_id number (10), c\_name varchar2(20), payment number(10), c\_phone number(10));

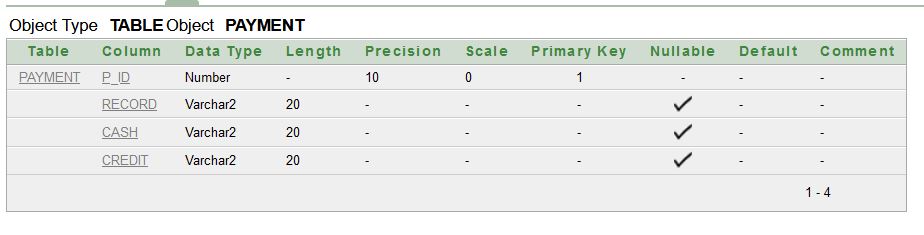
alter table customer add constraint bw primary key (c\_id)



**Payment Table:**

create table payment (p\_id number(10), record varchar2(20), cash varchar2(20), credit varchar2(20));

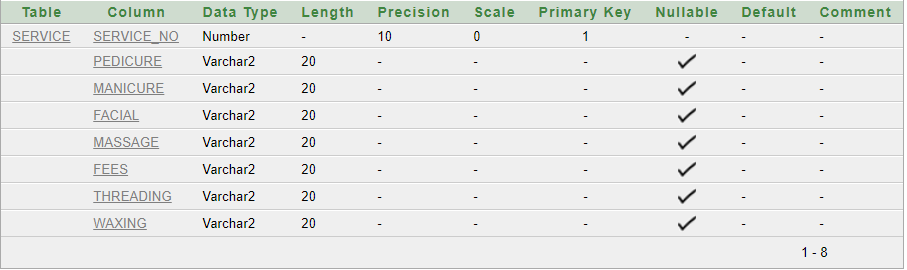
alter table payment add constraint cw primary key (p\_id)



**Service Table:**

create table service (Service\_no number(10), Pedicure varchar2(20), Manicure varchar2(20), Facial varchar2(20), Massage varchar2(20), Fees varchar2(20), Threading varchar2(20), Waxing varchar2(20));

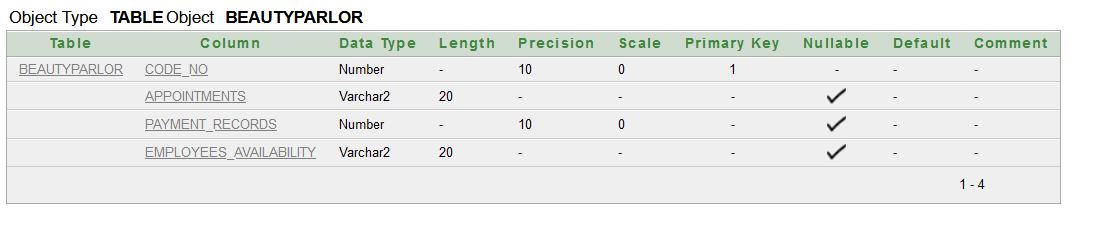
alter table service add constraint dw primary key(service\_no)



**Beauty Parlor Table:**

create table beautyparlor(code\_no number(10), Appointments varchar2(20), payment\_records number(10), Employees\_availability varchar2(20));

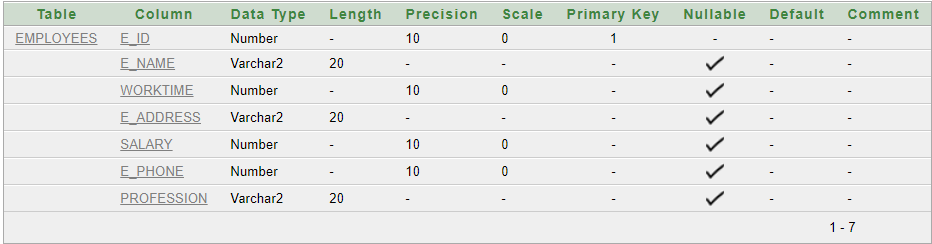
alter table beautyparlor add constraint ew primary key (code\_no)



**Employees Table:**

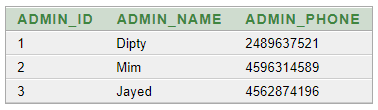
create table employees(e\_id number(10), e\_name varchar2(20), worktime number(10), E\_address varchar2(20), salary number(10), E\_phone number(10), profession varchar2(20));

alter table employees add constraint fw primary key (e\_id)

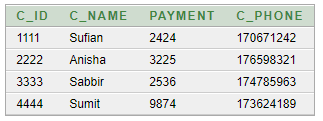


***Value Insertion:***

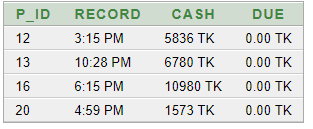
**Admin Table:**



**Customer Table:**



**Payment Table:**



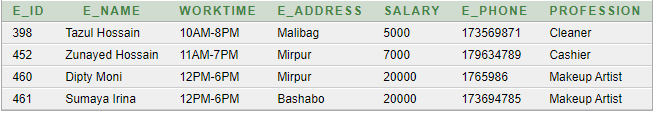
**Service Table:**



**Beauty parlor Table:**



**Employees Table:**



**Questions:**

**1.**Print the employee\_id and salary of all employee whose salary is less than Dipty Moni’s salary.

**Answer:** select E\_ID, SALARY from Employees where salary<(select salary from Employees where E\_NAME = Dipty Moni

**2.**Create a view named “My\_Appointment”to find the payment records of where code no starts with 15.

**Answer:** create view My\_Appointment as select PAYMENT\_ RECORDS from Beauty parlor where CODE\_NO like 15

**3.**Create a view named “My\_Payment”to find the Due of where payment id starts with 13.

**Answer:** create view My\_Payment as select DUE from Payment where P\_ID like 13

**4.**Display the payment that has customer id less than that of customer name Sabbir- which would be the inner query?

**Answer:** select C\_ID from Customer where C\_NAME=’Sabbir’

**5.** Display the payment that has customer id less than that of customer name Sabbir- which type of query is this?

**Answer:** Single row Querry

**6.**Display all the Employee Name along with their Profession and Work time-which type of join we can use to solve the quarry?

**Answer:** Equi Join

**7.** Display the Service no and Fees for all Waxing who have a Fin their name?

**Answer:** select SERVICE\_NO,FEES from Service where WAXING like’F%’

**8.** Create a query to display the Employees that earn a salary that is higher than the salary of all makeup artists. Sort the results on salary from highest to lowest.

**Answer**: select E\_NAME,SALARY

from Employee

where SALARY>all

(select SALARY from Employee where PROFESSION='Makeup Artists')

order by SALARY

**9.** Write a query to display the Employee name and Email Address for all employees in the same Profession as Dipty Moni. Exclude Sumaya Irina.

**Answer**: select E\_NAME,E\_ADDRESS

from Employees where Profession=(select Profession from Employees where E\_NAME='Dipty Moni') and E\_NAME<>'Sumaya Irina'

**10.** Write a query to display the employee name, work time and email address of all employees whose profession is cashier.

**Answer:** select E\_NAME,WORK\_TIME,E\_ADDRESS from Employees where profession =’Cashier’