

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



INTERNATIONAL ISLAMIC  
UNIVERSITY CHITTAGONG

Department of Computer Science & Engineering (CSE)

**Course Code:** CSE-2424

**Course Title:** Database System Lab

**Project On:** Parlour and Saloon Management System

**Submitted To:**

Dr. Mohammad Aman Ullah

Associate Professor

Department of Computer Science & Engineering

International Islamic University Chittagong.

**Submitted By:**

**Name:** Farida Nusrat

**ID:** C201242

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**Section:** AF

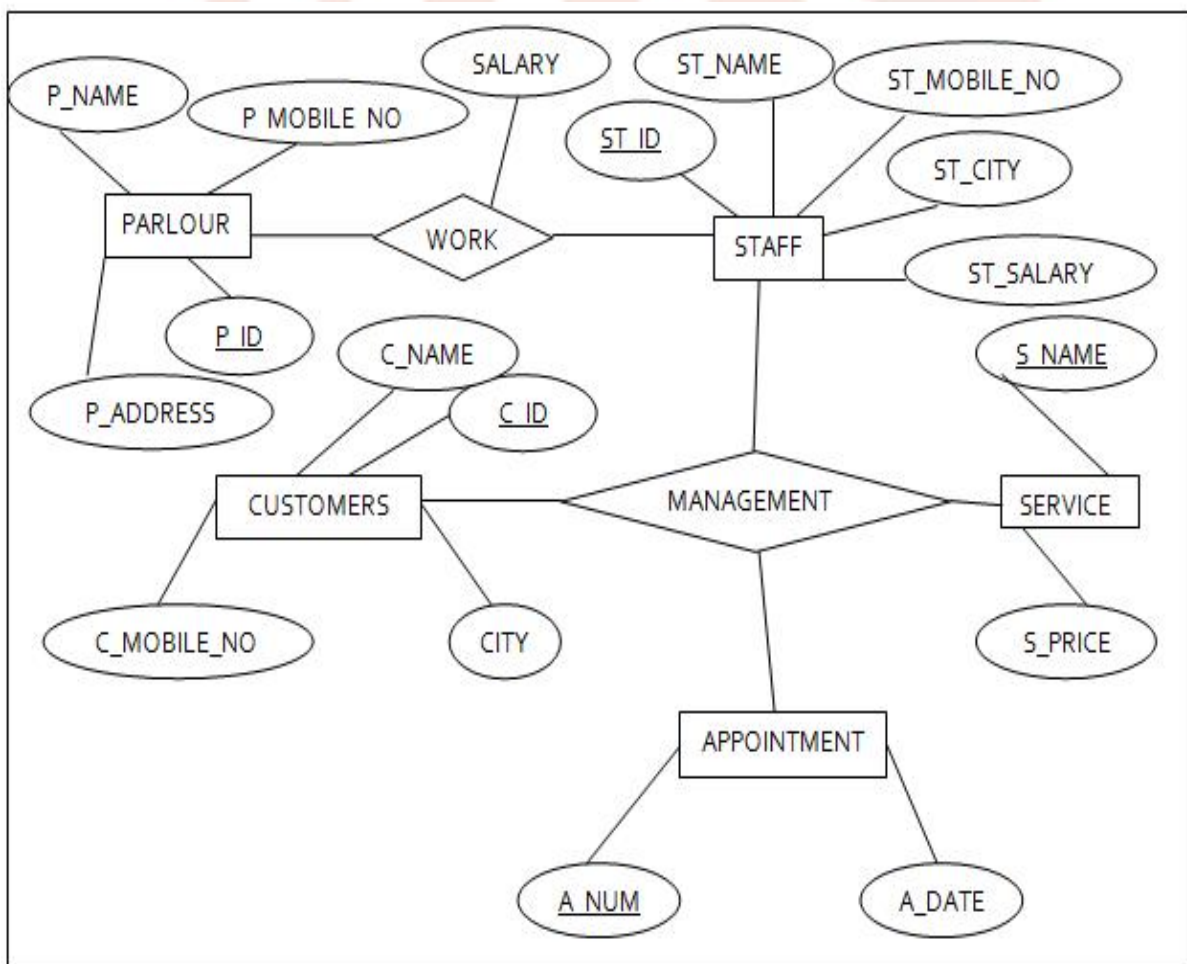
**Sign:** Farida Nusrat

**Submission Date:** 11-May-22

## Parlour and Saloon Management System

Parlor and saloon management system is a web-based salon management application with appointment scheduling functionality. In this system user can review salons and stylist online and can make appointment online.

### Conceptual Model:



**Figure: E-R diagram of Parlour & Saloon Management System.**

**Table:PARLOUR****SQL:**

```
CREATE TABLE "PARLOUR"  
(  
    "P_ID" VARCHAR2(40),  
    "P_NAME" VARCHAR2(40),  
    "P_ADDRESS" VARCHAR2(80),  
    "P_MOBILE_NO" NUMBER(11,0),  
    CONSTRAINT "PARLOUR_PK" PRIMARY KEY ("P_ID") ENABLE  
)  
/
```

**Table:STAFF****SQL:**

```
CREATE TABLE "STAFF"  
(  
    "ST_ID" VARCHAR2(40),  
    "ST_NAME" VARCHAR2(40),  
    "ST_MOBILE_NO" NUMBER(11,0),  
    "ST_CITY" VARCHAR2(40),  
    "ST_SALARY" NUMBER(6,0),  
    CONSTRAINT "STAFF_PK" PRIMARY KEY ("ST_ID") ENABLE  
)  
/
```

**Table:WORK****SQL:**

```
CREATE TABLE "WORK"  
(  
    "SALARY" NUMBER(6,0),  
    "P_ID" VARCHAR2(40),  
    "ST_ID" VARCHAR2(40),  
    CONSTRAINT "WORK_FK" FOREIGN KEY ("P_ID")  
        REFERENCES "PARLOUR" ("P_ID") ENABLE,  
    CONSTRAINT "WORK_FK2" FOREIGN KEY ("ST_ID")  
        REFERENCES "STAFF" ("ST_ID") ENABLE  
)  
/
```

**Table:CUSTOMERS****SQL:**

```
CREATE TABLE "CUSTOMERS"  
(  
    "C_ID" VARCHAR2(40),  
    "C_NAME" VARCHAR2(40),  
    "C_MOBILE_NO" NUMBER(11,0),  
    "CITY" VARCHAR2(40),  
    CONSTRAINT "CUSTOMERS_PK" PRIMARY KEY ("C_ID")  
ENABLE  
)  
/
```

**Table:APPOINTMENT****SQL:**

```
CREATE TABLE "APPOINTMENT"  
(  
    "A_NUM" VARCHAR2(40),  
    "A_DATE" DATE,  
    CONSTRAINT "APPOINTMENT_PK" PRIMARY KEY ("A_NUM")  
ENABLE  
)  
/
```

**Table:SERVICE****SQL**

```
CREATE TABLE "SERVICE"  
(  
    "S_NAME" VARCHAR2(40),  
    "S_PRICE" NUMBER(6,0),  
    CONSTRAINT "SERVICE_PK" PRIMARY KEY ("S_NAME")  
ENABLE  
)  
/
```

## Table:MANAGEMENT

### SQL

```
CREATE TABLE "MANAGEMENT"
(
  "ST_ID" VARCHAR2(40),
  "C_ID" VARCHAR2(40),
  "A_NUM" VARCHAR2(40),
  "S_NAME" VARCHAR2(40),
  CONSTRAINT "MANAGEMENT_FK" FOREIGN KEY ("ST_ID")
    REFERENCES "STAFF" ("ST_ID") ENABLE,
  CONSTRAINT "MANAGEMENT_FK2" FOREIGN KEY ("C_ID")
    REFERENCES "CUSTOMERS" ("C_ID") ENABLE,
  CONSTRAINT "MANAGEMENT_FK3" FOREIGN KEY ("A_NUM")
    REFERENCES "APPOINTMENT" ("A_NUM") ENABLE
)
/
```

### Schema:

Parlour(P\_ID,P\_NAME, P\_ADDRESS,P\_MOBILE\_NO)  
 Staff(ST\_ID, ST\_NAME,ST\_MOBILE\_NO, ST\_CITY, ST\_SALARY)  
 Work(P\_ID,ST\_ID,SALARY)  
 Customers(C\_ID,C\_NAME, C\_MOBILE\_NO,CITY)  
 Appointment(A\_NUM,A\_DATE)  
 Service(S\_NAME,S\_PRICE)  
 Management(ST\_ID,C\_ID,A\_NUM,S\_NAME)

# **DML Statement:**

## **A.To Search Data from individual table:**

### **Query-1:**

Create a report that displays the name and id of customer.

### **SQL Command:**

```
SELECT C_ID,C_NAME
FROM CUSTOMERS;
```

### **Result:**

C_ID	C_NAME
C05	Safwan
C01	Farida
C04	Sanida
C06	Sabrina
C07	Mahi
C08	Arwa
C09	Faiza
C03	Nishi
C02	Eva
C10	Nabil

### **Query-2:**

Ascending order create a report that display the appointment number and appointment date.

### **SQL Command:**

```
Select A_NUM,A_DATE
from APPOINTMENT
Order By A_NUM ASC;
```

**Result:**

A_NUM	A_DATE
A0010	07-JUL-22
E005	05-OCT-22
E011	02-DEC-22
M001	07-FEB-22
N002	08-JUN-22
O003	03-JUN-22
P004	02-JUL-22
Q008	03-DEC-22
R007	02-APR-22
W006	03-MAR-22
Y009	04-FEB-22

**Query-3:**

Create a report that display the customer name and mobile number

**SQL Command:**

```
SELECT C_NAME,C_MOBILE_NO
FROM CUSTOMERS;
```

**Result:**

C_NAME	C_MOBILE
Safwan	1839555294
Farida	1839555295
Sanida	1839555293
Sabrina	1839555295
Mahi	1839555292
Arwa	1839666629
Faiza	1839235529
Nishi	1839555291
Eva	1823955529
Nabil	1839445529

**Query-4:**

Create a report that display the city of customer.

**SQL Command:**

```
SELECT CITY
FROM CUSTOMERS;
```



**Result:**

CITY
Chittagong
Sylhet
Chittagong
Dhaka
Chittagong
Dhaka
Dhaka
Chittagong
Feni
Dhaka

**Query-5:**

Create a report that display the staff name and id.

**SQL Command:**

```
SELECT ST_ID,ST_NAME
FROM STAFF;
```

**Result:**

ST_ID	ST_NAME
S04	Sazia Kulsum
S06	Tania Sultana
S07	Sabrin Sultana
S10	Saimoon Nahar
S11	Rafi Islam
S12	Roni Rohoman
S13	Razib Ahmed
S15	Nusrat Jahan
S16	Rani Pal
S18	Rana Mehedi
S20	Noman Alam
S01	Rahima Akter
S03	Fowzia Kulsum
S09	Emon Akter
S17	Dipa De
S19	Nobel Ahmed
S05	Rehana Begum
S08	Tarek Islam
S02	Azim Hossin

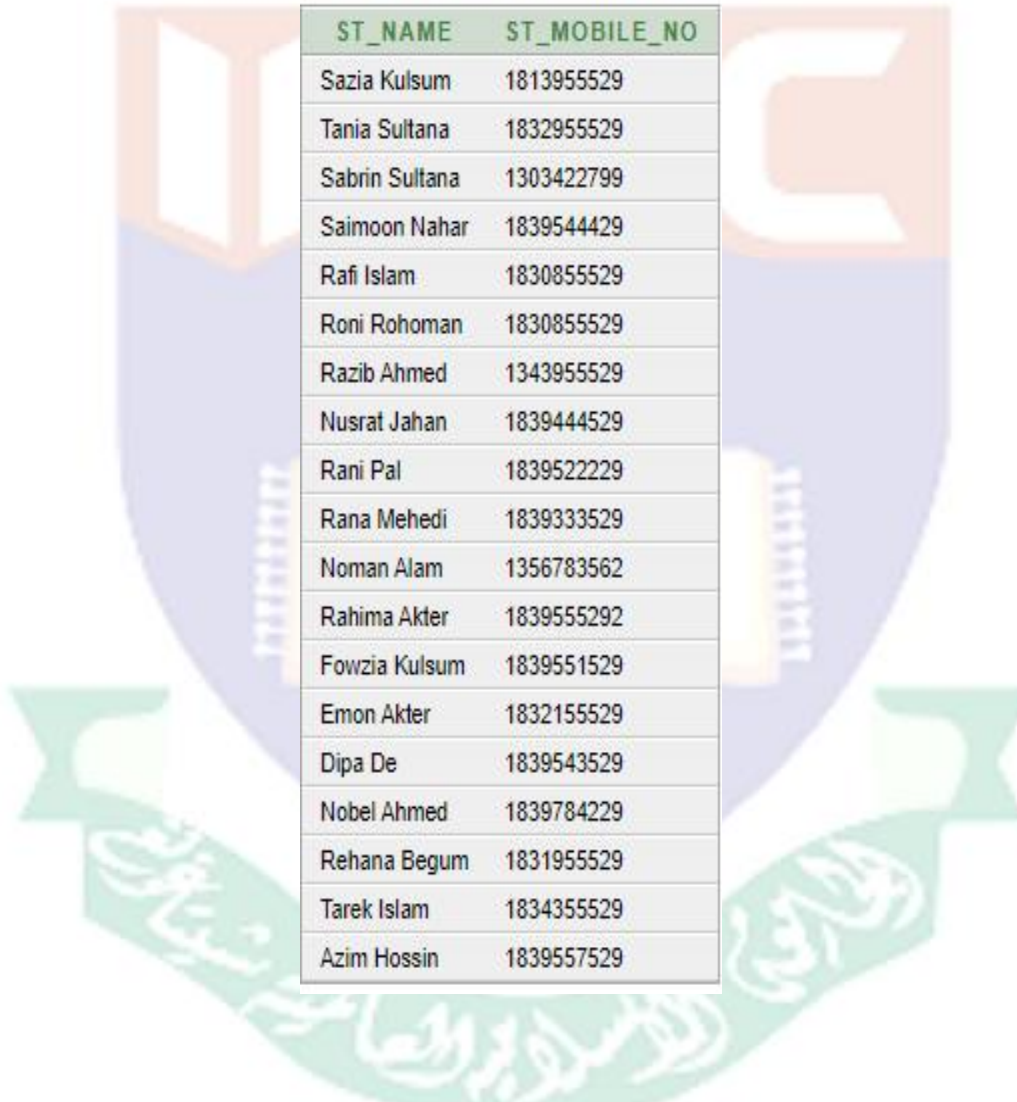


**Query-6:**

Create a report that display the staff name and mobile number

**SQL Command:**

```
SELECT ST_NAME,ST_MOBILE_NO
FROM STAFF;
```

**Result:**


ST_NAME	ST_MOBILE_NO
Sazia Kulsum	1813955529
Tania Sultana	1832955529
Sabrin Sultana	1303422799
Saimoon Nahar	1839544429
Rafi Islam	1830855529
Roni Rohoman	1830855529
Razib Ahmed	1343955529
Nusrat Jahan	1839444529
Rani Pal	1839522229
Rana Mehedi	1839333529
Noman Alam	1356783562
Rahima Akter	1839555292
Fowzia Kulsum	1839551529
Emon Akter	1832155529
Dipa De	1839543529
Nobel Ahmed	1839784229
Rehana Begum	1831955529
Tarek Islam	1834355529
Azim Hossin	1839557529

**Query-7:**

Create a report that display the service name .

**SQL Command:**

```
SELECT S_NAME
FROM SERVICE;
```

**Result:**

S_NAME
Facial
Hair spa
Haircut
Bridal makeup
Party makeup
Waxing Facial
Pre bridal body wax
Manicure & pedicure
Deep cleaner
Hair color

**Query-8:**

Create a report that display the service name and price.

**SQL Command:**

```
SELECT S_NAME,S_PRICE
FROM SERVICE;
```

**Result:**

S_NAME	S_PRICE
Facial	2500
Hair spa	2400
Haircut	300
Bridal makeup	5000
Party makeup	3500
Waxing Facial	4000
Pre bridal body wax	6000
Manicure & pedicure	3000
Deep cleaner	1500
Hair color	2000

**Query-9:**

Find the detail of the customer 'C02'.

**SQL Command:**

```
Select *
From CUSTOMERS
where C_ID='C02';
```

**Result:**

C_ID	C_NAME	C_MOBILE_NO	CITY
C02	Eva	1823955529	Feni

**Query-10:**

Find all the customers who live in Chittagong.

**SQL Command:**

```
Select *
From CUSTOMERS
where CITY LIKE '%Chittagong';
```

**Result:**

C_ID	C_NAME	C_MOBILE	CITY
C05	Safwan	1839555294	Chittagong
C04	Sanida	1839555293	Chittagong
C07	Mahi	1839555292	Chittagong
C03	Nishi	1839555291	Chittagong

**Query-11:**

Ascending order according to the column C\_ID.

**SQL Command:**

```
SELECT *
FROM CUSTOMERS
ORDER BY C_ID ASC;
```

**Result:**

C_ID	C_NAME	C_MOBILE	CITY
C01	Farida	1839555295	Sylhet
C02	Eva	1823955529	Feni
C03	Nishi	1839555291	Chittagong
C04	Sanida	1839555293	Chittagong
C05	Safwan	1839555294	Chittagong
C06	Sabrina	1839555295	Dhaka
C07	Mahi	1839555292	Chittagong
C08	Arwa	1839666629	Dhaka
C09	Faiza	1839235529	Dhaka
C10	Nabil	1839445529	Dhaka

**Query-12:**

Display the minimum price of service.

**SQL Command:**

```
SELECT MIN (S_PRICE)
FROM SERVICE;
```

**Result:**

MIN(S_PRICE)
500

**Query-13:**

Find the detail of the staff 'S20'.

**SQL Command:**

```
Select *
From STAFF
where ST_ID='S20';
```

**Result:**

ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY	ST_SALARY
S20	Noman Alam	1356783562	Bogra	28000

**Query-14:**

Find all the staff who live in Feni.

**SQL Command:**

```
Select *
From STAFF
where ST_CITY LIKE '%Feni';
```

**Result:**

ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY	ST_SALARY
S07	Sabrin Sultana	1303422799	Feni	20000
S11	Rafi Islam	1830855529	Feni	25000
S12	Roni Rohoman	1830855529	Feni	22000
S03	Fowzia Kulsum	1839551529	Feni	33000
S02	Azim Hossin	1839557529	Feni	35000

**Query-15:**

Display the highest price of service.

**SQL Command:**

```
SELECT MAX(S_PRICE)
FROM SERVICE;
```

**Result:**

MAX(S_PRICE)
6000

**Query-16:**

Descending order according to the column ST\_ID.

**SQL Command:**

```
SELECT *
FROM STAFF
ORDER BY ST_ID DESC;
```

**Result:**

ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY	ST_SALARY
S20	Noman Alam	1356783562	Bogra	28000
S19	Nobel Ahmed	1839784229	Dhaka	14000
S18	Rana Mehedi	1839333529	Comilla	18000
S17	Dipa De	1839543529	Dhaka	30000
S16	Rani Pal	1839522229	Bogra	24000
S13	Razib Ahmed	1343955529	Sylhet	15000
S12	Roni Rohoman	1830855529	Feni	22000
S11	Rafi Islam	1830855529	Feni	25000
S10	Saimoon Nahar	1839544429	Chittagong	18000
S09	Emon Akter	1832155529	Sylhet	8000
S08	Tarek Islam	1834355529	Sylhet	12000
S07	Sabrin Sultana	1303422799	Feni	20000
S06	Tania Sultana	1832955529	Sylhet	15000
S05	Rehana Begum	1831955529	Chittagong	25000
S04	Sazia Kulsum	1813955529	Chittagong	10000
S03	Fowzia Kulsum	1839551529	Feni	33000
S02	Azim Hossin	1839557529	Feni	35000
S01	Rahima Akter	1839555292	Chittagong	24000



**Query-17:**

Find all staff earning the highest salary(they may be more than one with the same salary).

**SQL Command:**

Select ST\_ID, ST\_NAME

From STAFF

Where ST\_SALARY= (Select max (ST\_SALARY)  
From STAFF);

**Result:**

ST_ID	ST_NAME
S02	Azim Hossin

**Query-18:**

Create a report that display the parlour name and mobile number

**SQL Command:**

SELECT P\_NAME,P\_MOBILE\_NO  
FROM PARLOUR;

**Result:**

P_NAME	P_MOBILE_NO
Glitter Girls	9705148867
Le Nail salon	9493277344
Sai Durga Heritage Parlour	868687679
The Makeover Place	7674931393
Spectrum Hair Salon	9866542999
Plush Beauty Bar	9701195544
SRK traders	9848198492
The Beauty Lair	9059686941
Sri Siva Sai Heritage Parlour	4567342209
Shivanjaneya heritage parlour	8464836789

## B.To Search Data from Multiple Tables

### Query-1:

Create a report using service and customer table

### SQL Command:

```
SELECT *
FROM CUSTOMERS,SERVICE;
```

### Result:

C_ID	C_NAME	C_MOBILE_NO	CITY	S_NAME	S_PRICE
C05	Safwan	1839555294	Chittagong	Manicure & pedicure	3000
C05	Safwan	1839555294	Chittagong	Waxing Facial	3700
C05	Safwan	1839555294	Chittagong	Haircut	500
C05	Safwan	1839555294	Chittagong	Hair color	800
C05	Safwan	1839555294	Chittagong	Hair spa	1000
C05	Safwan	1839555294	Chittagong	Bridal makeup	5000
C05	Safwan	1839555294	Chittagong	Party makeup	4000
C05	Safwan	1839555294	Chittagong	Golden Facial	2600
C05	Safwan	1839555294	Chittagong	Pre bridal body wax	6000
C05	Safwan	1839555294	Chittagong	Deep cleaner	1500
More than 10 rows available. Increase rows selector to view more rows.					

### Query-2:

Create a report using staff and customer table

### SQL Command:

```
Select *
From STAFF,CUSTOMERS;
```

### Result:

ST_ID	ST_NAME	ST_MOBILE_NO	C_ID	C_NAME	C_MOBILE	CITY
S04	Sazia Kulsum	1813955529	C05	Safwan	1839555294	Chittagong
S06	Tania Sultana	1832955529	C05	Safwan	1839555294	Chittagong
S07	Sabrin Sultana	1303422799	C05	Safwan	1839555294	Chittagong
S10	Saimoon Nahar	1839544429	C05	Safwan	1839555294	Chittagong
S01	Rahima Akter	1839555292	C05	Safwan	1839555294	Chittagong
S03	Fowzia Kulsum	1839551529	C05	Safwan	1839555294	Chittagong
S09	Emon Akter	1832155529	C05	Safwan	1839555294	Chittagong
S05	Rehana Begum	1831955529	C05	Safwan	1839555294	Chittagong
S08	Tarek Islam	1834355529	C05	Safwan	1839555294	Chittagong
S02	Azim Hossin	1839557529	C05	Safwan	1839555294	Chittagong
More than 10 rows available. Increase rows selector to view more rows.						



**Query-3:**

Create a report using staff and customer and service table

**SQL Command:**

```
SELECT *
FROM CUSTOMERS natural join SERVICE natural join STAFF;
```

**Result:**

C_ID	C_NAME	C_MOBILE	CITY	S_NAME	S_PRICE	ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY	ST_SALARY
C05	Safwan	1839555294	Chittagong	Manicure & pedicure	3000	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Waxing Facial	3700	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Haircut	500	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Hair color	800	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Hair spa	1000	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Bridal makeup	5000	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Party makeup	4000	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Golden Facial	2600	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Pre bridal body wax	6000	S04	Sazia Kulsum	1813955529	Chittagong	10000
C05	Safwan	1839555294	Chittagong	Deep cleaner	1500	S04	Sazia Kulsum	1813955529	Chittagong	10000

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds

[CSV Export](#)

**Query-4:**

Create a report using STAFF and SERVICE.

**SQL Command:**

```
Select *
from SERVICE natural join STAFF;
```

**Result:**

S_NAME	S_PRICE	ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY	ST_SALARY
Manicure & pedicure	3000	S04	Sazia Kulsum	1813955529	Chittagong	10000
Waxing Facial	3700	S04	Sazia Kulsum	1813955529	Chittagong	10000
Haircut	500	S04	Sazia Kulsum	1813955529	Chittagong	10000
Hair color	800	S04	Sazia Kulsum	1813955529	Chittagong	10000
Hair spa	1000	S04	Sazia Kulsum	1813955529	Chittagong	10000
Bridal makeup	5000	S04	Sazia Kulsum	1813955529	Chittagong	10000
Party makeup	4000	S04	Sazia Kulsum	1813955529	Chittagong	10000
Golden Facial	2600	S04	Sazia Kulsum	1813955529	Chittagong	10000
Pre bridal body wax	6000	S04	Sazia Kulsum	1813955529	Chittagong	10000
Deep cleaner	1500	S04	Sazia Kulsum	1813955529	Chittagong	10000

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds

[CSV Export](#)

**Query-5:**

Match the customer id and staff id.

**SQL Command:**

```
SELECT CUSTOMERS.C_ID, CUSTOMERS.C_NAME, STAFF.ST_MOBILE
_NO,STAFF.ST_CITY
FROM CUSTOMERS, STAFF
WHERE CUSTOMERS.C_ID = STAFF.ST_ID;
```

**Result:**

no data found

**Query-6:**

Find the names and cities of residence of all staff who work for P1 and earn less than \$10,000.

**SQL Command:**

```
Select *
From STAFF
Where ST_NAME in (Select ST_NAME
From work
Where P_ID = 'P1' and ST_SALARY < 10000);
```

**Result:**

ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY	ST_SALARY
S09	Emon Akter	1832155529	Sylhet	8000

**Query-7:**

Find all staff in the database who do not work for Spectrum Hair Salon. The following solution assumes that all people work for exactly one parlour.

**SQL Command:**

```
Select ST_NAME From STAFF
Where ST_NAME not in (Select ST_NAME
From WORK
Where P_ID = 'P5');
```

**Result:**

no data found

**Query-8:**

Create a report using STAFF and SERVICE.

**SQL Command:**

```
Select *
from PARLOUR natural join STAFF;
```

**Result:**

P_NAME	P_ADDRESS	P_MOBILE_NO	ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY	ST_SALARY
Glitter Girls	Mirpur,Dhaka	9705148867	S04	Sazia Kulsum	1813955529	Chittagong	10000
Le Nail salon	Jamal Khan,Chittagong	9493277344	S04	Sazia Kulsum	1813955529	Chittagong	10000
Sai Durga Heritage Parlour	D.NO-2-185/6,ANJANEYA NAGAR,OPP-3RD Kakinada	868687679	S04	Sazia Kulsum	1813955529	Chittagong	10000
The Makeover Place	A block,lane-4,Halishahar,Chittagong	7674931393	S04	Sazia Kulsum	1813955529	Chittagong	10000
Spectrum Hair Salon	New I block, Lane-13, Halishahar,Chittagong	9866542999	S04	Sazia Kulsum	1813955529	Chittagong	10000
Plush Beauty Bar	DOOR NO: 7-26/1,BAPUJI NAGAR COLONY, Rajahmundry	9701195544	S04	Sazia Kulsum	1813955529	Chittagong	10000
SRK traders	#10-12/12,BORTONGUDA,MACHABOLLARAM,ALWAL HYDERABAD	9848198492	S04	Sazia Kulsum	1813955529	Chittagong	10000
The Beauty Lair	Agrabad,Halishahar,Chittagong	9059686941	S04	Sazia Kulsum	1813955529	Chittagong	10000
Sri Siva Sai Heritage Parlour	3-415,WORKERS COLONY -2, LALACHERUV Rajahmundry	4567342209	S04	Sazia Kulsum	1813955529	Chittagong	10000
Shivanjaneya heritage parlour	D.NO.73-15-18,MAINROAD,NARAYANAP URA Rajahmundry	8464836789	S04	Sazia Kulsum	1813955529	Chittagong	10000
Glitter Girls	Mirpur,Dhaka	9705148867	S06	Tania Sultana	1832955529	Sylhet	15000
Le Nail salon	Jamal Khan,Chittagong	9493277344	S06	Tania Sultana	1832955529	Sylhet	15000
Sai Durga Heritage Parlour	D.NO-2-185/6,ANJANEYA NAGAR,OPP-3RD Kakinada	868687679	S06	Tania Sultana	1832955529	Sylhet	15000
The Makeover Place	A block,lane-4,Halishahar,Chittagong	7674931393	S06	Tania Sultana	1832955529	Sylhet	15000
Spectrum Hair Salon	New I block, Lane-13, Halishahar,Chittagong	9866542999	S06	Tania Sultana	1832955529	Sylhet	15000
Plush Beauty Bar	DOOR NO: 7-26/1,BAPUJI NAGAR COLONY, Rajahmundry	9701195544	S06	Tania Sultana	1832955529	Sylhet	15000
SRK traders	#10-12/12,BORTONGUDA,MACHABOLLARAM,ALWAL HYDERABAD	9848198492	S06	Tania Sultana	1832955529	Sylhet	15000
The Beauty Lair	Agrabad,Halishahar,Chittagong	9059686941	S06	Tania Sultana	1832955529	Sylhet	15000
Sri Siva Sai Heritage Parlour	3-415,WORKERS COLONY -2, LALACHERUV Rajahmundry	4567342209	S06	Tania Sultana	1832955529	Sylhet	15000
Shivanjaneya heritage parlour	D.NO.73-15-18,MAINROAD,NARAYANAP URA Rajahmundry	8464836789	S06	Tania Sultana	1832955529	Sylhet	15000
Glitter Girls	Mirpur,Dhaka	9705148867	S07	Sabrin Sultana	1303422799	Feni	20000
Le Nail salon	Jamal Khan,Chittagong	9493277344	S07	Sabrin Sultana	1303422799	Feni	20000
Sai Durga Heritage Parlour	D.NO-2-185/6,ANJANEYA NAGAR,OPP-3RD Kakinada	868687679	S07	Sabrin Sultana	1303422799	Feni	20000
The Makeover Place	A block,lane-4,Halishahar,Chittagong	7674931393	S07	Sabrin Sultana	1303422799	Feni	20000
Spectrum Hair Salon	New I block, Lane-13, Halishahar,Chittagong	9866542999	S07	Sabrin Sultana	1303422799	Feni	20000
Plush Beauty Bar	DOOR NO: 7-26/1,BAPUJI NAGAR COLONY, Rajahmundry	9701195544	S07	Sabrin Sultana	1303422799	Feni	20000
SRK traders	#10-12/12,BORTONGUDA,MACHABOLLARAM,ALWAL HYDERABAD	9848198492	S07	Sabrin Sultana	1303422799	Feni	20000
The Beauty Lair	Agrabad,Halishahar,Chittagong	9059686941	S07	Sabrin Sultana	1303422799	Feni	20000
Sri Siva Sai Heritage Parlour	3-415,WORKERS COLONY -2, LALACHERUV Rajahmundry	4567342209	S07	Sabrin Sultana	1303422799	Feni	20000
Shivanjaneya heritage parlour	D.NO.73-15-18,MAINROAD,NARAYANAP URA Rajahmundry	8464836789	S07	Sabrin Sultana	1303422799	Feni	20000

More than 30 rows available. Increase rows selector to view more rows.



## **C. Sub-Queries:**

### **Query-1:**

Find the Staff names whose salary is less than or equal to 1,00,00.

### **SQL Command:**

```
SELECT st_name
FROM staff
WHERE st_salary<=10000;
```

### **Result:**

ST_NAME
Sazia Kulsum
Emon Akter

### **Query-2:**

Find an Staff whose salary is 30000.

### **SQL Command:**

```
SELECT st_name
FROM staff
WHERE st_salary=30000;
```

### **Result:**

ST_NAME
Dipa De

### **Query-3:**

Find the customers who lives in Farida's city.

### **SQL Command:**

```
Select *
from CUSTOMERS
where CITY LIKE (Select CITY
                  from CUSTOMERS
                  where C_NAME='Farida');
```

### **Result:**

C_ID	C_NAME	C_MOBILE_NO	CITY
C01	Farida	1839555295	Sylhet

**Query-4:**

Find the staff who lives in the city of customer 'C04'.

**SQL Command:**

```
Select ST_ID,ST_NAME,ST_MOBILE_NO,ST_CITY
from STAFF
where ST_CITY= (Select CITY
                 from CUSTOMERS
                 where C_ID='C04');
```

**Result:**

ST_ID	ST_NAME	ST_MOBILE_NO	ST_CITY
S04	Sazia Kulsum	1813955529	Chittagong
S10	Saimoon Nahar	1839544429	Chittagong
S01	Rahima Akter	1839555292	Chittagong
S05	Rehana Begum	1831955529	Chittagong

**Query-5:**

Find those parlours whose staff earn a higher salary, on average, than the average salary at P3.

**SQL Command:**

```
Select p_id
From work
group by p_id
having avg (salary) > (Select avg (salary)
                       From work
                       Where p_id = 'P3');
```

**Result:**

P_ID
P4
P7
P5

**Query-6:**

Find the names of all services with customers who have an staff and who live in 'Chittagong'.

**SQL Command:**

```
Select distinct st_name
From staff natural join service natural join customers
Where city='Chittagong';
```

**Result:**

ST_NAME
Sabrin Sultana
Dipa De
Rafi Islam
Noman Alam
Rehana Begum
Tarek Islam
Azim Hossin
Saimoon Nahar
Rahima Akter
Sazia Kulsum
More than 10 rows available. Increase rows selector to view more rows.

**Query-7:**

Give all staff of P8 a 10-percent raise.

**SQL Command:**

```
Update work
Set salary = salary * 1.1
Where P_ID='P8';
```

**Result:**

2 row(s) updated.

## **D.Others:**

### **Query-1:**

Show the details of Customer 'C05' using PL/SQL.

### **SQL Command:**

```

Declare
cid customers.C_ID%type;
cname customers.C_NAME%type;
mobile customers.C_MOBILE%type;
add customers.CITY%type;
Begin
select C_ID,C_NAME,C_MOBILE,CITY INTO cid,cname,mobile,add
from customers
where C_ID='C05';
dbms_output.put_line('Customer Details:');
dbms_output.put_line('Customer_ID Customer_Name Mobile CITY');
dbms_output.put_line(' '||cid||' '||cname||' '||mobile||' '||add);
END;
```

### **Result:**

```

Customer Details:
Customer_ID Customer_Name Mobile CITY
C05 Safwan 1839555294 Chittagong

Statement processed.

0.00 seconds
```

### **Query-2:**

Show the details of Staff 'S02' using PL/SQL.

### **SQL Command:**

```

Declare
stid staff.ST_ID%type;
stname staff.ST_NAME%type;
mobile staff.ST_MOBILE_NO%type;
city staff.ST_CITY%type;
```



```

Begin
select ST_ID,ST_NAME,ST_MOBILE_NO,ST_CITY INTO
stid,stname,mobile,city
from STAFF
where ST_ID='S02';
dbms_output.put_line('Staff Details:');
dbms_output.put_line('-----');
dbms_output.put_line('Staff_ID   Staff_Name   Mobile       CITY');
dbms_output.put_line('-----   -----   -----   ----');
dbms_output.put_line('  '||stid||'      '||stname||'  '||mobile||'  '||city);
END;

```

### **Result:**

```

Service Details:--
Service_Name      Service_price
-----
Haircut           500

Statement processed.

0.02 seconds

```

### **Query-3:**

Show the details of Service 'Haircut' using PL/SQL.

### **SQL Command:**

```

Declare
sname service.S_NAME%type;
sprice service.S_PRICE%type;
Begin
select S_NAME,S_PRICE INTO sname,sprice
from SERVICE
where S_NAME='Haircut';
dbms_output.put_line('Service Details:--');
dbms_output.put_line('  Service_Name   Service_price   ');
dbms_output.put_line('  -----   -----   ');
dbms_output.put_line('  '||sname||'      '||sprice);
END;

```

**Result:**

```

Service Details:--
  Service_Name      Service_price
  -----
    Haircut          500

Statement processed.

0.02 seconds

```

**Query-4:**

Show the details of Appointment 'M001' using PL/SQL.

**SQL Command:**

```

Declare
anum appointment.A_NUM%type;
adate appointment.A_DATE%type;
Begin
select A_NUM,A_DATE INTO anum,adate
from APPOINTMENT
where A_NUM='M001';
dbms_output.put_line('Appointment Details:--');
dbms_output.put_line('  Appointment_Number | Appointment_Date');
dbms_output.put_line('  ----- | ----- ');
dbms_output.put_line('   '||anum||'      |    '||adate);
END;

```

**Result:**

```

Appointment Details:--
  Appointment_Number | Appointment_Date
  -----
    M001             | 07-FEB-22

Statement processed.

0.02 seconds

```

**Query-5:**

Show the details of Parlour 'P10' using PL/SQL.

**SQL Command:**

```

Declare
pid parlour.P_ID%type;
pname parlour.P_NAME%type;
pmobile parlour.P_MOBILE_NO%type;
padd parlour.P_ADDRESS%type;
Begin
select P_ID,P_NAME,P_MOBILE_NO,P_ADDRESS INTO
pid,pname,pmobile,padd
from PARLOUR
where P_ID='P10';
dbms_output.put_line('Parlour Details:');
dbms_output.put_line('-----');
dbms_output.put_line('          PARLOUR_ID      |
PARLOUR_Name      |      Mobile      |      Address');
dbms_output.put_line('          -----      |      -----      |
|      -----      |      -----      |
|      -----      |      -----      |');
dbms_output.put_line('          '||pid||'      | '||pname||'      | '||
pmobile||'      | '||padd);
END;
```

**Result:**

Parlour Details:

PARLOUR_ID	PARLOUR_Name	Mobile	Address
-----	-----	-----	-----
P10	Shivanjaneya heritage parlour	8464836789	D.NO.73-15-18,MAINROAD,NARAYANAP URA Rajahmundry

Statement processed.

0.00 seconds