

**American International University- Bangladesh**

**(PROJECT)**

**Project: “*Beauty Parlor Management System*** “

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# Introduction:

# Beauty parlor is a service-oriented establishment in which women receive treatment to increase their beauty. Skincare, facial make-up, hair nourishment, and model hair cutting are the most important nourishing activities of a beauty parlor. In a parlor, there is a manager who manages all the documents with details. Using pen & paper for collecting documents isn’t safe and secure.

# Hence, a management system is introduced to maintain a parlor record. It’s necessary to have a complete project on it so that the documents are safe and they can redo them whenever they want.

# It is a database management system which is helpful in the sectors of beauty parlor.

# Our main aim is to maintain records and make analyses based on reports generated.

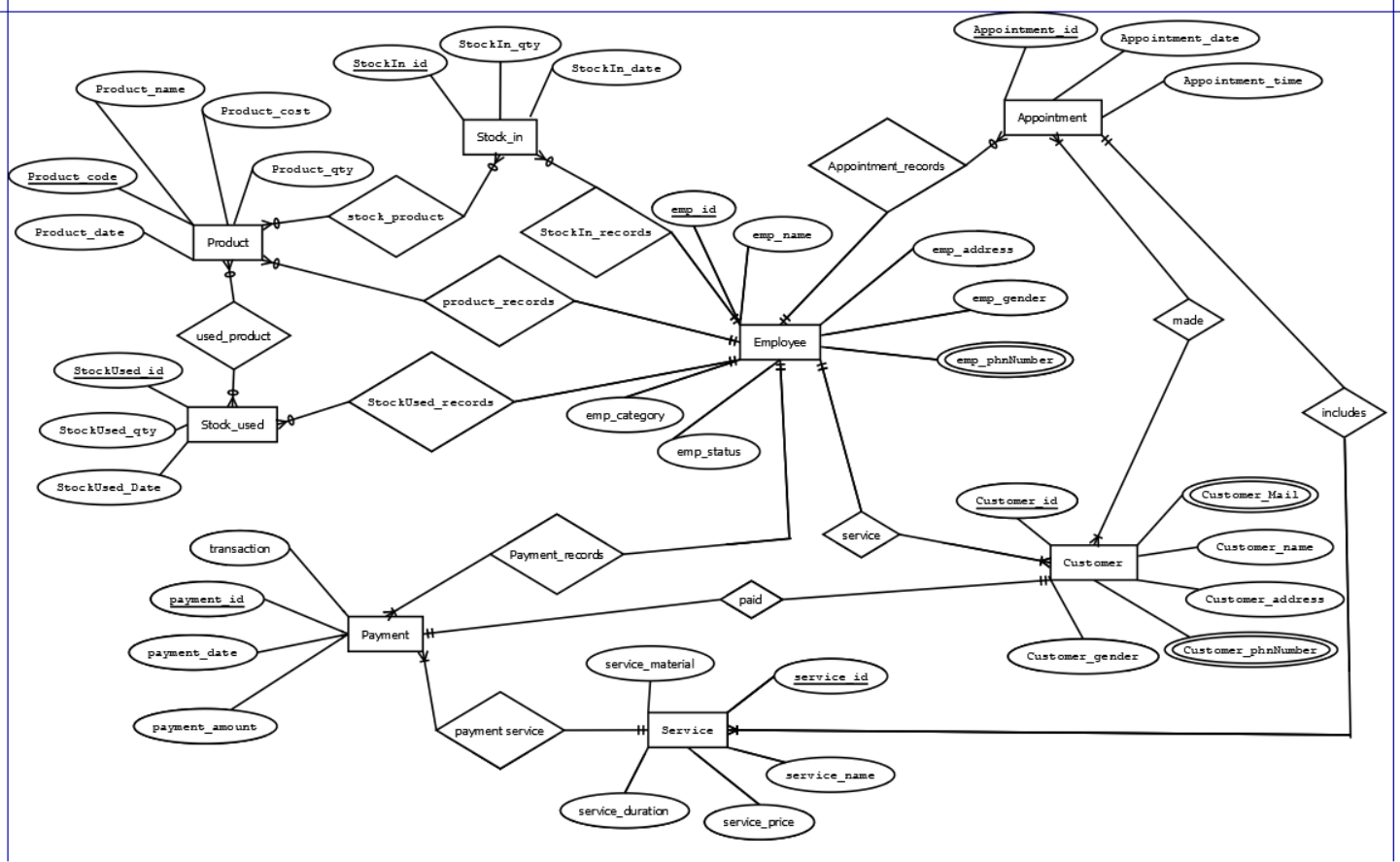
# The system can store details of the appointment, employee, payment info, stock details, etc.

# This system is built to reduce the complexity of the system for the users handling the system.

# Case Study

# In beauty, parlor management customers may make an appointment. A customer is defined by a customer id. A customer is identified by name, gender, address, email, phone number. A customer can make one or many appointments. An appointment is defined by an appointment id. The appointment is composed of time, date. After the appointment, it will be serving time. The appointment includes one or many services. Service is defined by service id and it is composed of a service name, price, duration, material. Payment is defined by payment id which is composed of amount and date. An employee of paler is defined by an employee id. An employee is identified by name, address, phone number, status, category, gender. One employee can record many appointments, stock in, stock used, product, payment. One employee can serve one or many customers. The Product is defined by a product code. Product is composed of a name, cost, quantity, date. One product can have many stocks. Stock\_in is defined by Stock\_in id which is composed of quantity, date. Another hand stock\_used is defined by stock\_used id which is composed of quantity, date. Payment holds service and services includes payment.

Er-diagram:



**NORMALIZATION**

**Appointment\_records**(**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status, **appointment\_id**, appointment\_date, appointment\_time)

**1NF**

emp\_phnNumber is a multivalued attributed.

**2NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status.

**appointment\_id**, appointment\_date, appointment\_time

**3NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

**appointment\_id**, appointment\_date, appointment\_time, emp\_id.

**e\_id**, emp\_category, emp\_status.

**TABLE**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

**appointment\_id**, appointment\_date, appointment\_time, emp\_id.

**e\_id**, emp\_category, emp\_status.

**Service**(**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status, **customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender)

**1NF**

emp\_phnNumber, customer\_Mail, customer\_phnNumber is a multivalued attributed.

**2NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status.

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender, emp\_id

**3NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id

**customer\_id**, customer\_name,customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender, emp\_id

**e\_id**, emp\_category, emp\_status.

**TABLE**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id

**customer\_id**, customer\_name,customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender, emp\_id

**e\_id**, emp\_category, emp\_status.

**Payment\_records**(**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status, **payment\_id**, payment\_date, payment\_amount, transaction)

**1NF**

emp\_phnNumber is a multivalued attributed.

**2NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status.

**payment\_id**, payment\_date, payment\_amount, transaction, emp\_id.

**3NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id

**payment\_id**, payment\_date, payment\_amount, transaction, emp\_id.

**e\_id**, emp\_category, emp\_status.

**TABLE**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id

**payment\_id**, payment\_date, payment\_amount, transaction, emp\_id.

**e\_id**, emp\_category, emp\_status.

**product\_records**(**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status, **product\_code**, product\_name, product\_cost, product\_date, product\_qty)

**1NF**

emp\_phnNumber is a multivalued attributed.

**2NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status.

**product\_code**, product\_name, product\_cost, product\_date, product\_qty, emp\_id.

**3NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id

**product\_code**, product\_name, product\_cost, product\_date, product\_qty, emp\_id.

**e\_id**, emp\_category, emp\_status.

**TABLE**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id

**product\_code**, product\_name, product\_cost, product\_date, product\_qty, emp\_id.

**e\_id**, emp\_category, emp\_status.

**StockIn\_records**(**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status, **stockIn\_id**, stockIn\_qty, stockIn\_date)

**1NF**

emp\_phnNumber is a multivalued attributed.

**2NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status.

**stockIn\_id**, stockIn\_qty, stockIn\_date, emp\_id.

**3NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

**stockIn\_id**, stockIn\_qty, stockIn\_date, emp\_id.

**e\_id**, emp\_category, emp\_status.

**TABLE**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

**stockIn\_id**, stockIn\_qty, stockIn\_date, emp\_id.

**e\_id**, emp\_category, emp\_status.

**StockUsed\_records**(**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status, **stockUsed\_id**, stockUsed\_qty, stockUsed\_date)

**1NF**

emp\_phnNumber is a multivalued attributed.

**2NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, emp\_category, emp\_status.

**stockUsed\_id**, stockUsed\_qty, stockUsed\_date, emp\_id.

**3NF**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

**stockUsed\_id**, stockUsed\_qty, stockUsed\_date, emp\_id.

**e\_id**, emp\_category, emp\_status.

**TABLE**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

**stockUsed\_id**, stockUsed\_qty, stockUsed\_date, emp\_id.

**e\_id**, emp\_category, emp\_status.

**includes**(**appointment\_id**, appointment\_date, appointment\_time, **service\_id**, service\_name, service\_price, services\_duration, service\_material)

**1NF**

There is no multivalued attributed.

**2NF**

**appointment\_id**, appointment\_date, appointment\_time.

**service\_id**, service\_name, service\_price, services\_duration, service\_material, appointment\_id.

**3NF**

**appointment\_id**, appointment\_date, appointment\_time.

**service\_id**, service\_name, services\_duration, service\_material, service\_price ,appointment\_id.

There is no transitive dependency.

**TABLE**

**appointment\_id**, appointment\_date, appointment\_time.

**service\_id**, service\_name, services\_duration, service\_material, service\_price ,appointment\_id.

**paid**(**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender, **payment\_id**, payment\_date, payment\_amount,transaction)

**1NF**

customer\_Mail,customer\_phnNumber is a multivalued attributed.

**2NF**

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.

**payment\_id**, payment\_date, payment\_amount, transaction, customer\_id.

**3NF**

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.

**payment\_id**, payment\_date, payment\_amount, transaction, customer\_id.

There is no transitive dependency.

**TABLE**

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.

**payment\_id**, payment\_date, payment\_amount, transaction, customer\_id.

**Payment\_service**(**payment\_id**, payment\_date, payment\_amount, transaction, **service\_id**, service\_name, service\_price, services\_duration, service\_material)

**1NF**

There is no multivalued attributed.

**2NF**

**payment\_id**, payment\_date, payment\_amount, transaction, service\_id.

**service\_id**, service\_name, service\_price, services\_duration, service\_material.

**3NF**

**payment\_id**, payment\_date, payment\_amount, transaction, service\_id.

**service\_id**, service\_name, services\_duration, service\_material, service\_price,

There is no transitive dependency.

**TABLE**

**payment\_id**, payment\_date, payment\_amount, transaction, service\_id.

**service\_id**, service\_name, services\_duration, service\_material, service\_price.

**made**(**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender, **appointment\_id**, appointment\_date, appointment\_time)

**1NF**

customer\_Mail,customer\_phnNumber is a multivalued attributed.

**2NF**

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.

**appointment\_id**, appointment\_date, appointment\_time.

**ca\_id**, customer\_id, appointment\_id.

**3NF**

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.

**appointment\_id**, appointment\_date, appointment\_time.

**ca\_id**, customer\_id, appointment\_id.

There is no transitive dependency.

**TABLE**

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.

**appointment\_id**, appointment\_date, appointment\_time.

**ca\_id**, customer\_id, appointment\_id.

**used\_product**(**product\_code**, product\_name, product\_cost, product\_date, product\_qty, **stockUsed\_id**, stockUsed\_qty, stockUsed\_date)

**1NF**

There is no multivalued attribute.

**2NF**

**Product\_code,** product\_name, product\_cost, product\_date, product\_qty.

**stockUsed\_id**, stockUsed\_qty, stockUsed\_date.

**Pst\_id**, product\_code, stockUsed\_id.

**3NF**

**Product\_code**, product\_name, product\_date, product\_id.

**stockUsed\_id,** stockUsed\_qty,stockUsed\_date.

**Pst\_id**,product\_code, stockUsed\_id.

There is no transitive dependency.

**TABLE**

**Product\_code**, product\_name, product\_date, product\_id.

**stockUsed\_id,** stockUsed\_qty,stockUsed\_date.

**Pst\_id**,product\_code, stockUsed\_id.

Stock\_product(**product\_code**, product\_name, product\_cost, product\_date, product\_qty, **stockIn\_id**, stockIn\_qty, stockIn\_date)

**1NF**

There is no multivalued attribute.

**2NF**

**Product\_code**, product\_name, product\_cost, product\_date, product\_qty.

**stockIn\_id**, stockIn\_qty, stockIn\_date.

**Pst\_id**, product\_code, stockIn\_id.

**3NF**

**Product\_code**, product\_name, product\_date, product\_id.

**stockIn\_id**, stockIn\_qty, stockIn\_date.

**Pst\_id**, product\_code, stockIn\_id.

There is no transitive dependency.

**TABLE**

**Product\_code**, product\_name, product\_date, product\_id.

**stockIn\_id**, stockIn\_qty, stockIn\_date.

**Pst\_id**, product\_code, stockIn\_id.

**TOTAL TABLE**

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

**appointment\_id**, appointment\_date, appointment\_time, emp\_id.

**e\_id**, emp\_category, emp\_status.

**~~emp\_id~~**~~, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id~~

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender, emp\_id

**~~e\_id~~**~~, emp\_category, emp\_status.~~

**~~emp\_id~~**~~, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id~~

**payment\_id**, payment\_date, payment\_amount, transaction, emp\_id.

**~~e\_id~~**~~, emp\_category, emp\_status.~~

**~~emp\_id~~**~~, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id~~

**product\_code**, product\_name, product\_cost, product\_date, product\_qty, emp\_id.

**~~e\_id~~**~~, emp\_category, emp\_status.~~

**~~emp\_id~~**~~, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id~~

**stockIn\_id**, stockIn\_qty, stockIn\_date, emp\_id.

**~~e\_id~~**~~, emp\_category, emp\_status.~~

**~~emp\_id~~**~~, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.~~

**stockUsed\_id**, stockUsed\_qty, stockUsed\_date, emp\_id.

**~~e\_id~~**~~, emp\_category, emp\_status.~~

**~~appointment\_id~~**~~, appointment\_date, appointment\_time.~~

**service\_id**, service\_name, service\_duration, service\_material, service\_price, appointment\_id**.**

**~~customer\_id~~**~~, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.~~

**payment\_id**, payment\_date, payment\_amount, transaction, customer\_id.

**payment\_id**, payment\_date, payment\_amount, transaction, service\_id.

**~~service\_id~~**~~, service\_name, services\_duration, service\_material, service\_price.~~

**~~customer\_id~~**~~, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender.~~

**~~appointment\_id~~**~~, appointment\_date, appointment\_time.~~

**ca\_id**, customer\_id, appointment\_id.

**~~Product\_code~~**~~, product\_name, product\_date, product\_id.~~

**~~stockUsed\_id,~~** ~~stockUsed\_qty,stockUsed\_date.~~

**Pst\_id**,product\_code, stockUsed\_id.

**~~Product\_code~~**~~, product\_name, product\_date, product\_id.~~

**~~stockIn\_id~~**~~, stockIn\_qty, stockIn\_date.~~

**Pst\_id**, product\_code, stockIn\_id.

**Final TABLE**

1. [Employee\_Info]

**emp\_id**, emp\_name, emp\_address, emp\_gender, emp\_phnNumber, e\_id.

1. [Appointment\_info]

**appointment\_id**, appointment\_date, appointment\_time, emp\_id.

1. [Employee\_category]

**e\_id**, emp\_category, emp\_status.

1. [Customer\_Info]

**customer\_id**, customer\_name, customer\_address, customer\_Mail, customer\_phnNumber, customer\_gender, emp\_id

1. [Payment\_info]

**payment\_id**, payment\_date, payment\_amount, transaction, emp\_id.

1. [Product\_info]

Product\_code, product\_name, product\_cost, product\_date, product\_qty, emp\_id.

1. [Stock\_In]

**stockIn\_id**, stockIn\_qty, stockIn\_date, emp\_id.

1. [Stock\_Used]

**stockUsed\_id**, stockUsed\_qty, stockUsed\_date, emp\_id.

1. [Service\_info]

**service\_id**, service\_name, services\_duration, service\_material, service\_price, appointment\_id.

1. [Customer\_payment]

**payment\_id**, payment\_date, payment\_amount, transaction, customer\_id.

1. [Service\_Payment]

**payment\_id**, payment\_date, payment\_amount, transaction, service\_id.

1. [Ca\_Id]

**ca\_id**, customer\_id, appointment\_id.

1. [Pst\_Used]

**Pst\_id**, product\_code, stockUsed\_id.

1. [Pst\_In]

**Pst\_id**, product\_code, stockIn\_id.

**TABLE CREATE**

1. CREATE TABLE Employee\_category

(

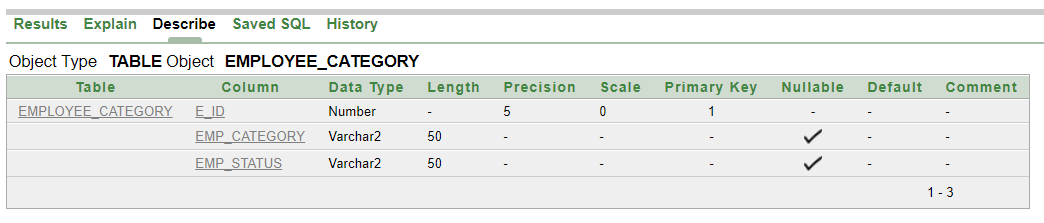
e\_id number(5),

emp\_category varchar2(50),

emp\_status varchar2(50),

PRIMARY KEY (e\_id)

);



2. CREATE TABLE Employee\_Info

(

emp\_id number(6),

emp\_name varchar2 (20) NOT NULL,

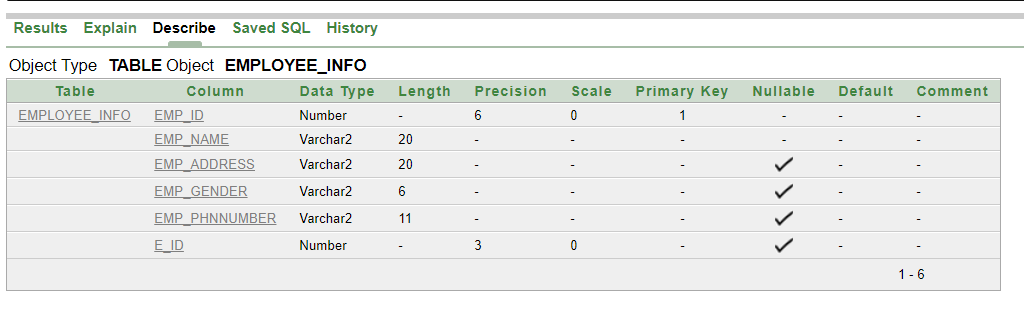
emp\_address varchar2 (20),

emp\_gender varchar2 (6),

emp\_phnNumber varchar2 (11) unique,

e\_id number(3),

PRIMARY KEY (emp\_id) );



3. CREATE TABLE Appointment\_info

(

appointment\_id number(6),

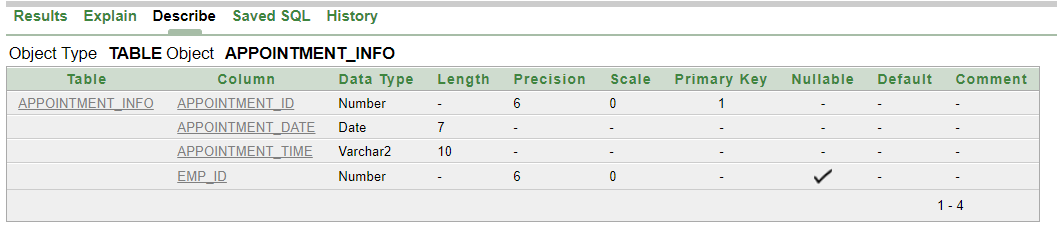
appointment\_date date not null,

appointment\_time varchar2(10) not null,

emp\_id number(6),

PRIMARY KEY (appointment\_id)

);



4. CREATE TABLE Customer\_Info

(

customer\_id number(6),

customer\_name varchar2(20) not null,

customer\_address varchar2(50),

customer\_mail varchar2(30) unique,

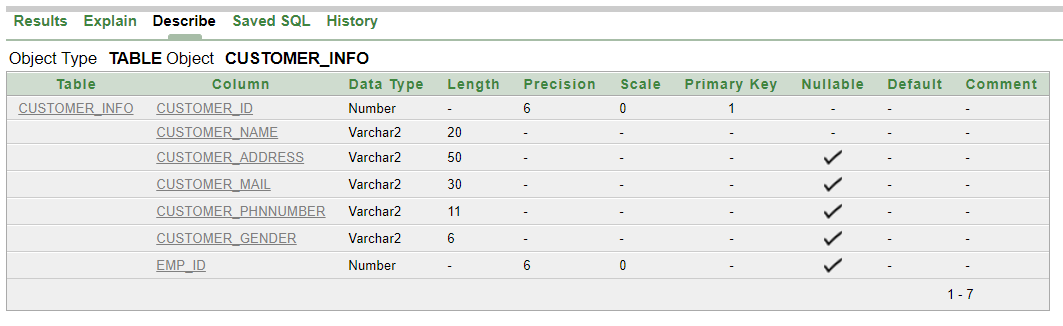
customer\_phnNumber varchar2(11) unique,

customer\_gender varchar2(6),

emp\_id number(6),

PRIMARY KEY (customer\_id)

);



5. CREATE TABLE Payment\_info

(

payment\_id number(6),

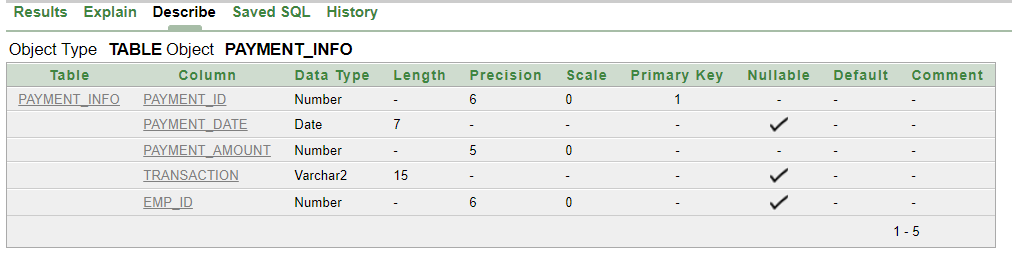
payment\_date date,

payment\_amount number(5) not null,

transaction varchar2(15) unique,

emp\_id number(6),

PRIMARY KEY (payment\_id) );



6. CREATE TABLE Product\_info

(

product\_code number(6),

product\_name varchar2(15) not null,

product\_cost number(5),

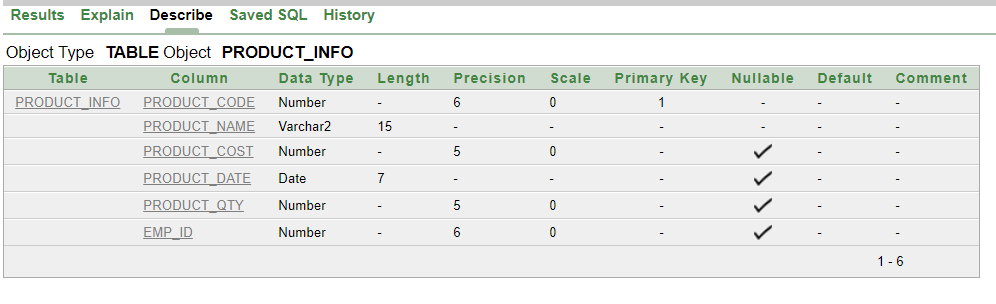
product\_date date,

product\_qty number(5),

emp\_id number(6),

PRIMARY KEY (product\_code)

);



7. CREATE TABLE Stock\_in

(

stockIn\_id number(6),

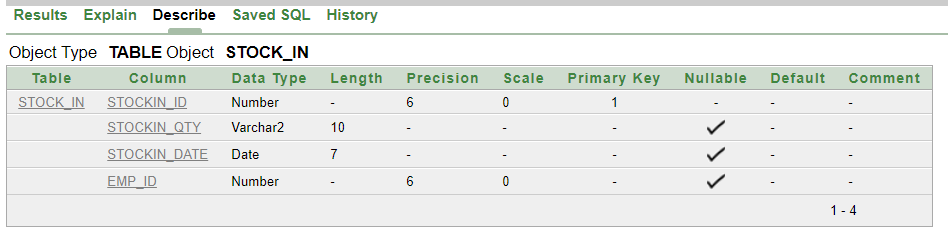
stockIn\_qty varchar2(10),

stockIn\_date date,

emp\_id number(6),

PRIMARY KEY (stockIn\_id)

);



8. CREATE TABLE Stock\_Used

(

stockUsed\_id number(6),

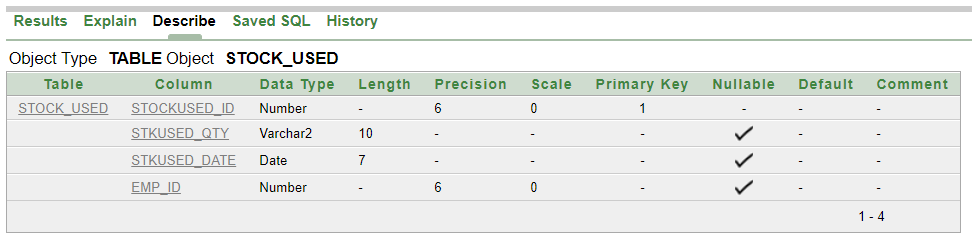
stkUsed\_qty varchar2(10),

stkUsed\_date date,

emp\_id number(6),

PRIMARY KEY (stockUsed\_id)

);



9. CREATE TABLE Service\_info

(

service\_id number(6),

service\_name varchar2(10),

service\_duration varchar2(10),

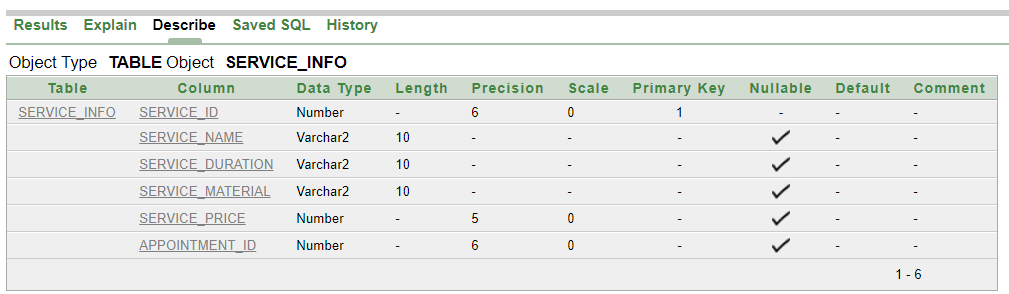
service\_material varchar2(10),

service\_price number(5),

appointment\_id number(6),

PRIMARY KEY (service\_id)

);



10. CREATE TABLE Customer\_Payment

(

payment\_id number(6),

payment\_date date,

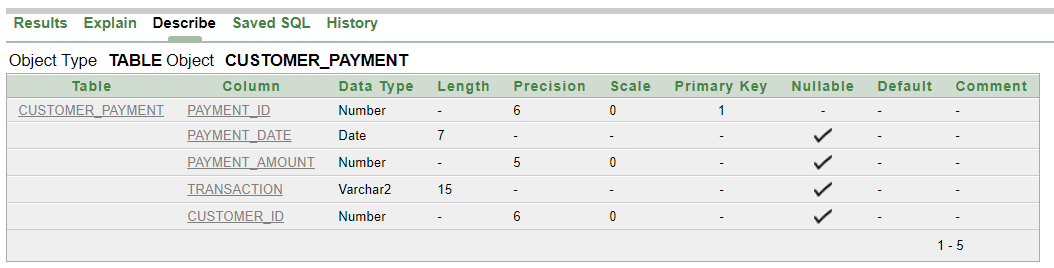
payment\_amount number(5),

transaction varchar2(15) unique,

customer\_id number(6),

PRIMARY KEY (payment\_id)

);



11. CREATE TABLE Service\_Payment

(

payment\_id number(6),

payment\_date date,

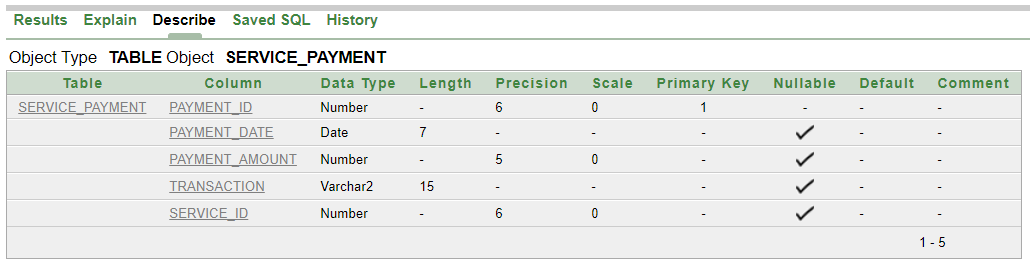
payment\_amount number(5),

transaction varchar(15) unique,

service\_id number(6),

PRIMARY KEY (payment\_id)

);



12. CREATE TABLE Ca\_Id

(

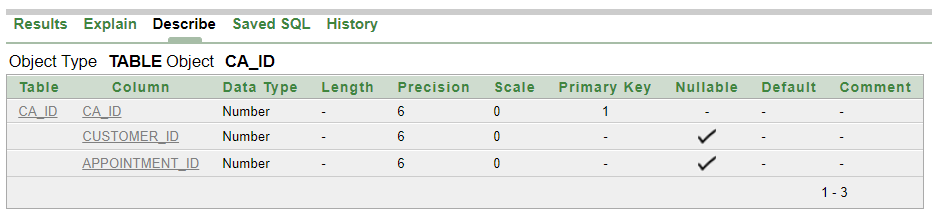
ca\_id number(6),

customer\_id number(6),

appointment\_id number(6),

PRIMARY KEY (ca\_id)

);



13. CREATE TABLE Pst\_Used

(

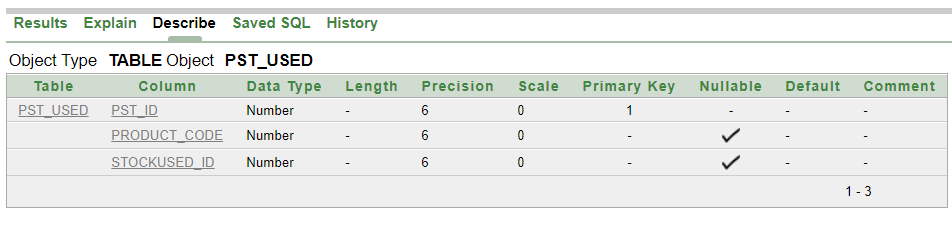
pst\_id number(6),

product\_code number(6),

stockUsed\_id number(6),

PRIMARY KEY (pst\_id)

);



14. CREATE TABLE Pst\_In

(

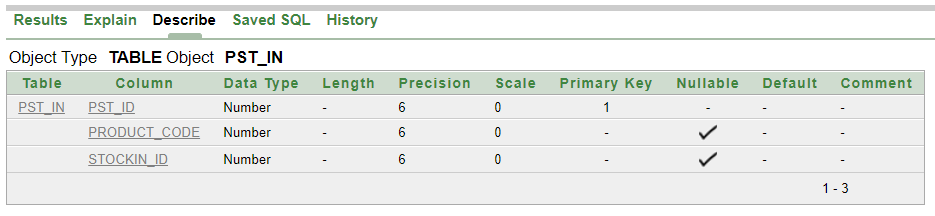
pst\_id number(6),

product\_code number(6),

stockIn\_id number(6),

PRIMARY KEY (pst\_id)

);



**Data Insertion**

**(Employee\_category)**

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(101,'High Tier','Manager');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(102,'High Tier','Manager');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(103,'Mid Tier','Hairstylist');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(104,'Mid Tier','Hairstylist');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(105,'Mid Tier','Hairstylist');

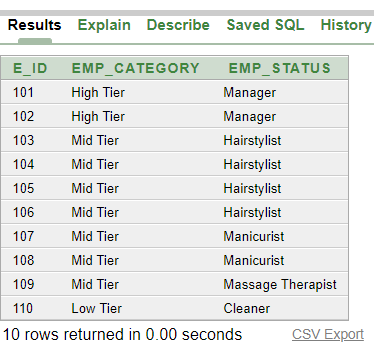
INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(106,'Mid Tier','Hairstylist');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(107,'Mid Tier','Manicurist');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(108,'Mid Tier','Manicurist');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(109,'Mid Tier','Massage Therapist');

INSERT INTO Employee\_category(e\_id,emp\_category,emp\_status) VALUES(110,'Low Tier',' Cleaner');



**(Employee\_Info)**

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20421,'Sharia Arfin Tanim','Chattagram','Male','01815069120',101);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20422,'Fatama Jannat ','Rangpur','Female','01815069121',102);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20423,'Auditi Roy','Dhaka','Female','01815069122',103);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20424,'Tanim Hasan','Feni','Male','01815069123',104);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20425,'Anik Hasan','Saidpur','Male','01815069124',105);

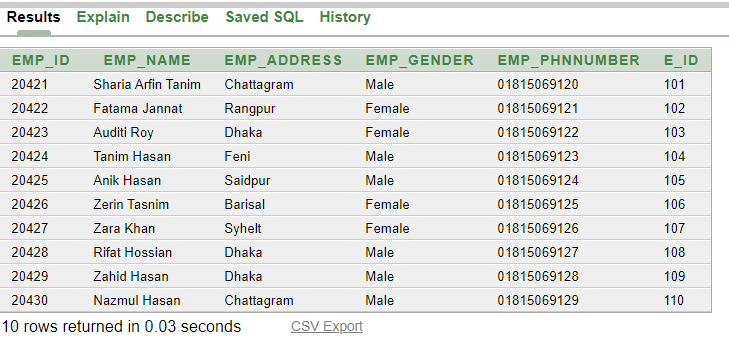
INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20426,'Zerin Tasnim','Barisal','Female','01815069125',106);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20427,'Zara Khan','Syhelt','Female','01815069126',107);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20428,'Rifat Hossian','Dhaka','Male','01815069127',108);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20429,'Zahid Hasan','Dhaka','Male','01815069128',109);

INSERT INTO Employee\_Info(emp\_id,emp\_name,emp\_address,emp\_gender,emp\_phnNumber,e\_id) VALUES(20430,'Nazmul Hasan','Chattagram','Male','01815069129',110);



**(Appointment\_info)**

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10101,'1-JAN-20','12:00 PM',20421);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10102,'1-JAN-20','1:00 PM',20422);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10103,'2-JAN-20','2:00 PM',20423);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10104,'2-JAN-20','11:00 AM',20424);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10105,'1-JAN-20','10:00 AM',20425);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10106,'3-JAN-20','12:30 PM',20426);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10107,'4-JAN-20','2:30 PM',20427);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10108,'3-JAN-20','3:00 PM',20428);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10109,'2-JAN-20','3:30 PM',20429);

INSERT INTO Appointment\_info(appointment\_id,appointment\_date,appointment\_time,emp\_id) VALUES(10110,'1-JAN-20','4:00 PM',20430);



**(Customer\_Info)**

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3011,'Rafsan Uddin','Chattagram','rafsan@gmail.com','01815934431','Male',20421);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3012,'Anik Sen','Dhaka','aniksen@gmail.com','01815934432','Male',20422);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3013,'Rafsan Khan','Dhaka','rafsankhan@gmail.com','01815934433','Male',20423);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3014,'Shamim Uddin','Chattagram','Shamim@gmail.com','01815934434','Male',20424);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3015,'Rifat Khan','Rangpur','rifat01@gmail.com','01815934435','Male',20425);

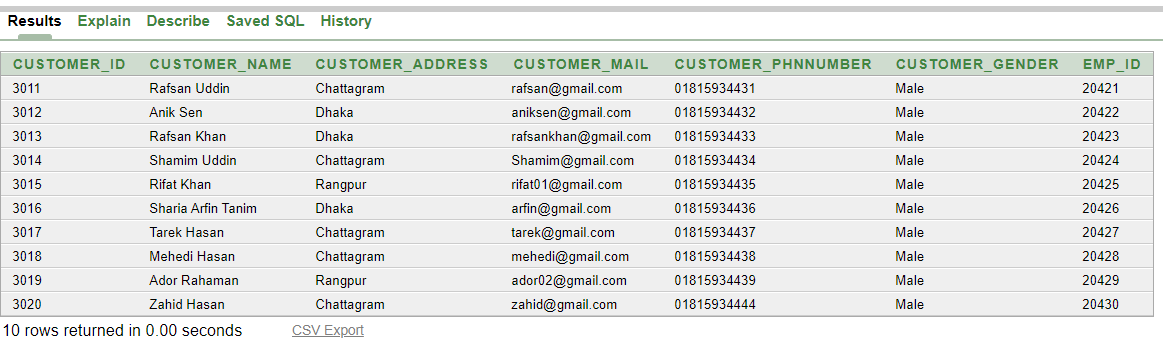
INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3016,'Sharia Arfin Tanim','Dhaka','arfin@gmail.com','01815934436','Male',20426);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3017,'Tarek Hasan','Chattagram','tarek@gmail.com','01815934437','Male',20427);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3018,'Mehedi Hasan','Chattagram','mehedi@gmail.com','01815934438','Male',20428);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3019,'Ador Rahaman','Rangpur','ador02@gmail.com','01815934439','Male',20429);

INSERT INTO Customer\_Info(customer\_id,customer\_name,customer\_address,customer\_mail,customer\_phnNumber,customer\_gender,emp\_id) VALUES(3020,'Zahid Hasan','Chattagram','zahid@gmail.com','01815934444','Male',20430);



**(Payment\_info)**

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9021,'1-JAN-20',3000,'xxx-yyy-000',20421);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9022,'1-JAN-20',4000,'xxx-yyy-001',20422);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9023,'2-JAN-20',5000,'xxx-yyy-002',20423);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9024,'2-JAN-20',3500,'xxx-yyy-003',20424);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9025,'1-JAN-20',3800,'xxx-yyy-004',20425);

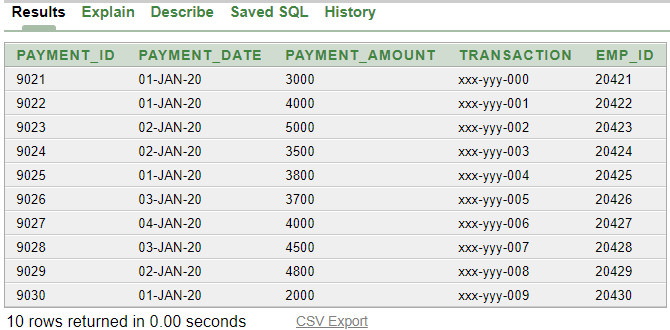
INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9026,'3-JAN-20',3700,'xxx-yyy-005',20426);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9027,'4-JAN-20',4000,'xxx-yyy-006',20427);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9028,'3-JAN-20',4500,'xxx-yyy-007',20428);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9029,'2-JAN-20',4800,'xxx-yyy-008',20429);

INSERT INTO Payment\_info(payment\_id,payment\_date,payment\_amount,transaction, emp\_id) VALUES(9030,'1-JAN-20',2000,'xxx-yyy-009',20430);



**(Product\_info)**

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111111,'Shampoos',300,'1-JUL-2021',15,20421);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111112,'Hair Dyes',3000,'12-JUNE-2021',25,20422);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111113,'Lighteners',500,'13-JUL-2021',14,20423);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111114,'Haircolor',5000,'14-MAY-2021',19,20424);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111115,'Hairstyling',4000,'15-MAY-2021',20,20425);

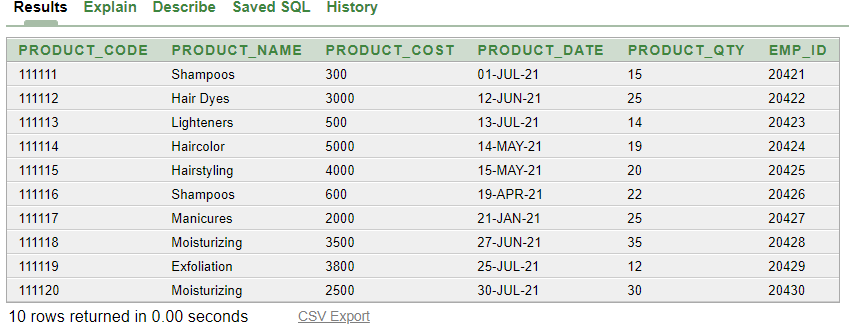
INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111116,'Shampoos',600,'19-APRIL-2021',22,20426);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111117,'Manicures',2000,'21-JAN-2021',25,20427);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111118,'Moisturizing',3500,'27-JUNE-2021',35,20428);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111119,'Exfoliation',3800,'25-JUL-2021',12,20429);

INSERT INTO Product\_info(product\_code,product\_name,product\_cost,product\_date,product\_qty, emp\_id) VALUES(111120,'Moisturizing',2500,'30-JUL-2021',30,20430);



**(Stock\_in)**

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90901,'11','12-JUL-2020',20421);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90902,'20','14-JUNE-2020',20422);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90903,'15','15-JUNE-2020',20423);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90904,'18','16-MAY-2020',20424);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90905,'15','17-MAY-2020',20425);

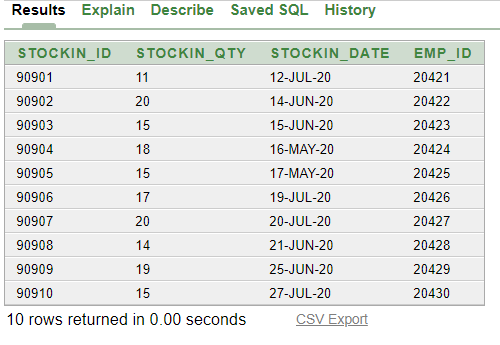
INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90906,'17','19-JUL-2020',20426);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90907,'20','20-JUL-2020',20427);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90908,'14','21-JUNE-2020',20428);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90909,'19','25-JUNE-2020',20429);

INSERT INTO Stock\_in(stockIn\_id,stockIn\_qty,stockIn\_date,emp\_id) VALUES(90910,'15','27-JUL-2020',20430);



**(Stock\_Used)**

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80801,'5','28-JAN-2020',20421);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80802,'6','25-FEB-2020',20422);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80803,'7','26-MARCH-2020',20423);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80804,'8','27-FEB-2020',20424);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80805,'5','20-JAN-2020',20425);

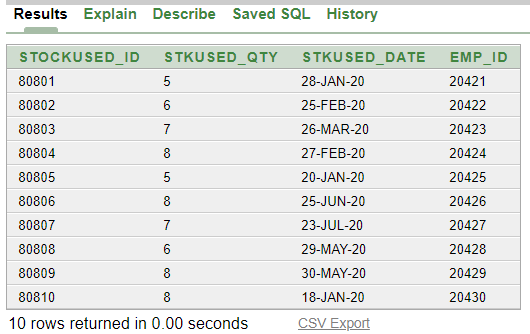
INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80806,'8','25-JUNE-2020',20426);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80807,'7','23-JULY-2020',20427);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80808,'6','29-MAY-2020',20428);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80809,'8','30-MAY-2020',20429);

INSERT INTO Stock\_Used(stockUsed\_id,stkUsed\_qty,stkUsed\_date,emp\_id) VALUES(80810,'8','18-JAN-2020',20430);



**(Service\_info)**

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110220,'Haircolor','2 hour','color',600,10101);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_price,appointment\_id) VALUES(110221,'Haircuts','2 hour',100,10102);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110222,'Condition','1 hour','Dryerchair',300,10103);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110223,'BasFacial','2 hour','Dryerchair',500,10104);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110224,'DelxFacial','3 hour','Dryerchair',700,10105);

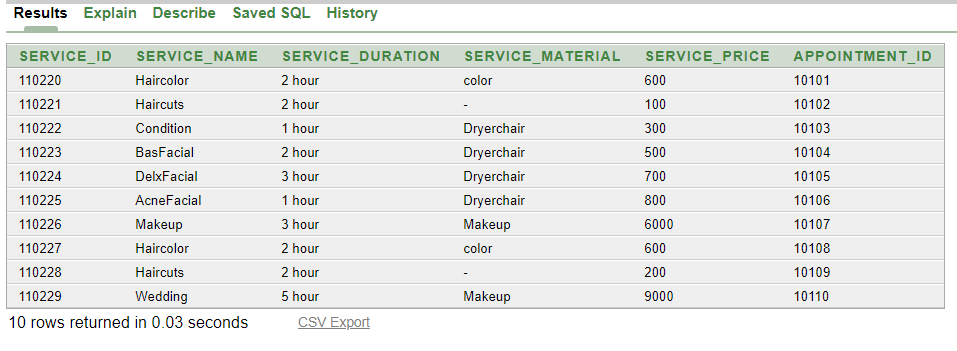
INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110225,'AcneFacial','1 hour','Dryerchair',800,10106);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110226,'Makeup','3 hour','Makeup',6000,10107);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110227,'Haircolor','2 hour','color',600,10108);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_price,appointment\_id) VALUES(110228,'Haircuts','2 hour',200,10109);

INSERT INTO Service\_info(service\_id,service\_name,service\_duration,service\_material,service\_price,appointment\_id) VALUES(110229,'Wedding','5 hour','Makeup',9000,10110);



**(Customer\_Payment)**

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9021,'1-JAN-20',3000,'xxx-yyy-000',3011);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9022,'1-JAN-20',4000,'xxx-yyy-001',3012);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9023,'2-JAN-20',5000,'xxx-yyy-002',3013);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9024,'2-JAN-20',3500,'xxx-yyy-003',3014);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9025,'1-JAN-20',3800,'xxx-yyy-004',3015);

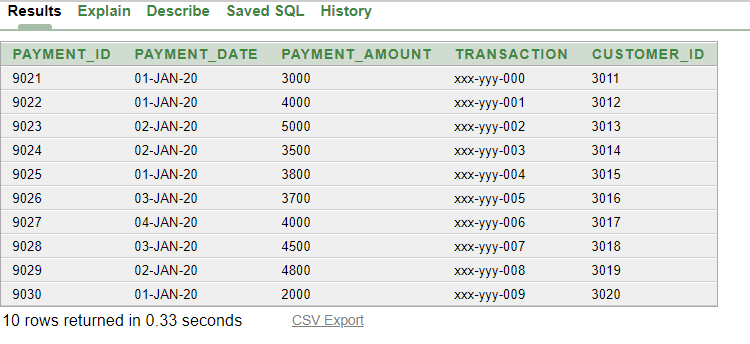
INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9026,'3-JAN-20',3700,'xxx-yyy-005',3016);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9027,'4-JAN-20',4000,'xxx-yyy-006',3017);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9028,'3-JAN-20',4500,'xxx-yyy-007',3018);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9029,'2-JAN-20',4800,'xxx-yyy-008',3019);

INSERT INTO Customer\_Payment(payment\_id,payment\_date,payment\_amount,transaction,customer\_id) VALUES(9030,'1-JAN-20',2000,'xxx-yyy-009',3020);



**(Service\_Payment)**

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9021,'1-JAN-20',3000,'xxx-yyy-000',110220);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9022,'1-JAN-20',4000,'xxx-yyy-001',110221);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9023,'2-JAN-20',5000,'xxx-yyy-002',110222);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9024,'2-JAN-20',3500,'xxx-yyy-003',110223);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9025,'1-JAN-20',3800,'xxx-yyy-004',110224);

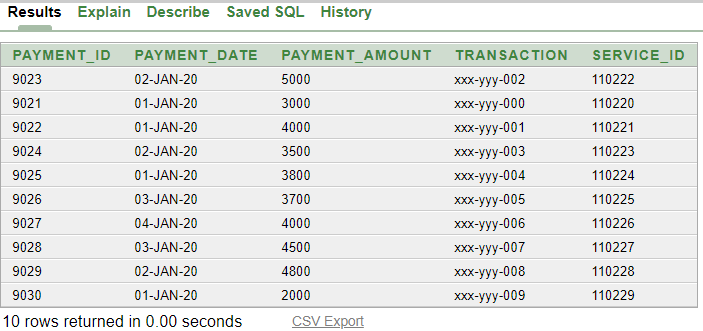
INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9026,'3-JAN-20',3700,'xxx-yyy-005',110225);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9027,'4-JAN-20',4000,'xxx-yyy-006',110226);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9028,'3-JAN-20',4500,'xxx-yyy-007',110227);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9029,'2-JAN-20',4800,'xxx-yyy-008',110228);

INSERT INTO Service\_Payment(payment\_id,payment\_date,payment\_amount,transaction,service\_id) VALUES(9030,'1-JAN-20',2000,'xxx-yyy-009',110229);



**(Ca\_Id)**

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(21,3011,10101);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(22,3012,10102);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(23,3013,10103);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(24,3014,10104);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(25,3015,10105);

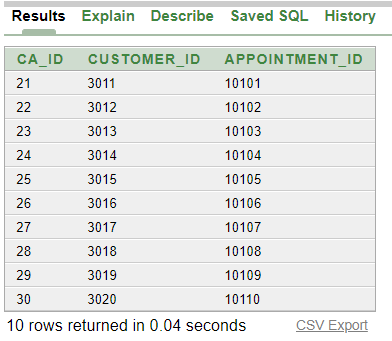
INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(26,3016,10106);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(27,3017,10107);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(28,3018,10108);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(29,3019,10109);

INSERT INTO Ca\_Id(ca\_id,customer\_id,appointment\_id) VALUES(30,3020,10110);



**(Pst\_Used)**

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(31,111111,80801);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(32,111112,80802);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(33,111113,80803);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(34,111114,80804);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(35,111115,80805);

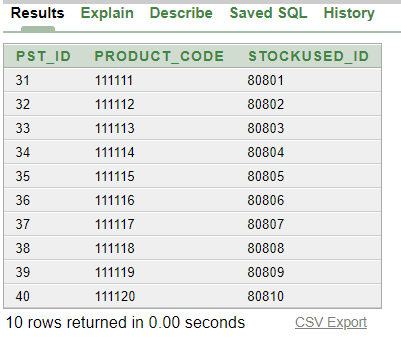
INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(36,111116,80806);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(37,111117,80807);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(38,111118,80808);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(39,111119,80809);

INSERT INTO Pst\_Used(pst\_id,product\_code,stockUsed\_id)values(40,111120,80810);



**(Pst\_In)**

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(31,111111,90901);

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(32,111112,90902);

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(33,111113,90903);

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(34,111114,90904);

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(35,111115,90905);

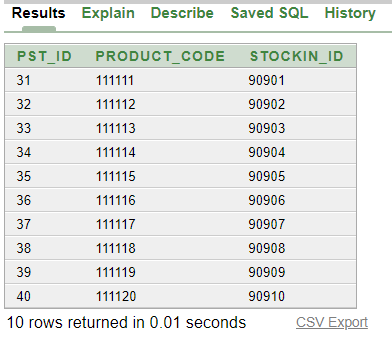
INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(36,111116,90906);

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(37,111117,90907);

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(38,111118,90908);

INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(39,111119,90909);

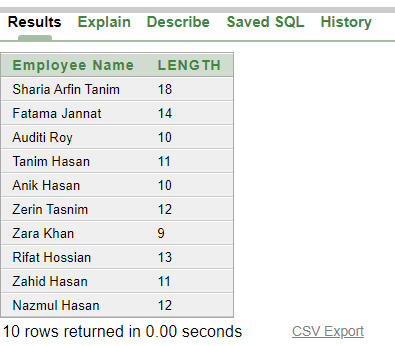
INSERT INTO Pst\_In(pst\_id,product\_code,stockIn\_id)values(40,111120,90910);



**SINGLE ROW FUNCTIONS**

1. Show all of the employees name and length of their name from Employee\_Info table

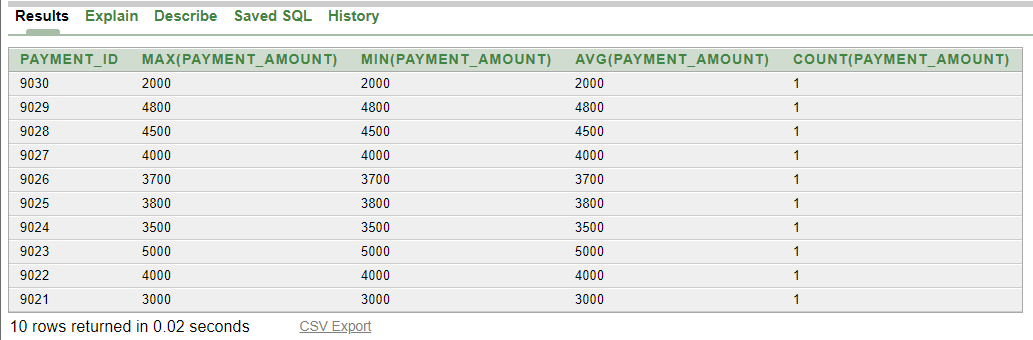
• select emp\_name"Employee Name",LENGTH(EMP\_NAME)"LENGTH" from Employee\_Info;



**GROUP FUNCTIONS**

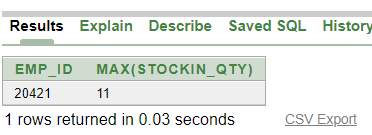
1. Find out the payment id, maximum payment, minimum payment, average payment, count made by customer also sequence it by descending order? From Customer table.

• select payment\_id, MAX(payment\_amount),Min(payment\_amount),avg(payment\_amount),count (payment\_amount) from Customer\_Payment group by payment\_id order by payment\_id desc;



1. Display employee id, max stock in of quantity where max stock in quantity is less then 12.

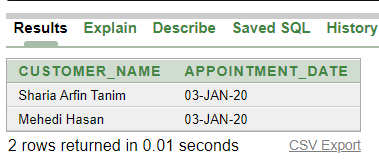
select emp\_id,max(stockin\_qty) from stock\_in group by emp\_id having max(stockin\_qty)<12



**Subqueries**

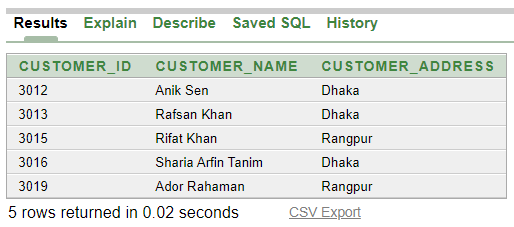
1. Display any name and appointment date of the customer whose appointment date same as Mehedi Hasan.

select customer\_name, appointment\_date from customer\_info c,appointment\_info a where c.emp\_id=a.emp\_id and appointment\_date =(select appointment\_date from customer\_info,appointment\_info where customer\_info.emp\_id=appointment\_info.emp\_id and customer\_name='Mehedi Hasan');



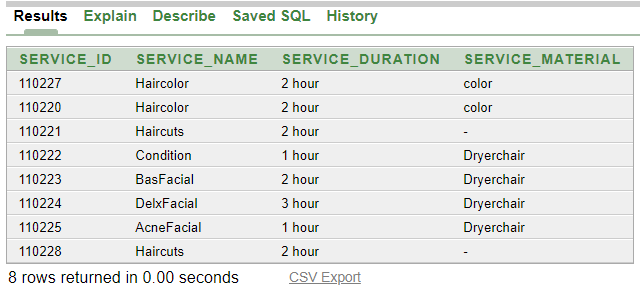
1. write a query to display customer id, name, address where address is not same as Rafsan Uddin.

select customer\_id,customer\_name,customer\_address from customer\_info where customer\_address!=(select customer\_address from customer\_info where customer\_name ='Rafsan Uddin');



1. display service id, service name, service duration, what material use for price 90 to 3000.

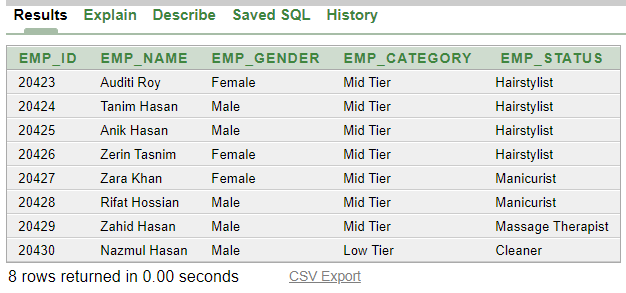
select service\_id,service\_name,service\_duration,service\_material from service\_info where service\_price in(select service\_price from service\_info where service\_price between 90 and 3000);



**Joining**

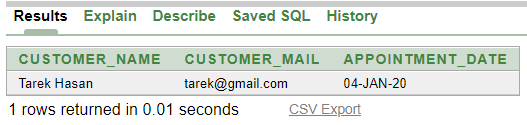
1. display all the employees id, name, gender, category, status where status is not manager.

select emp\_id, emp\_name, emp\_gender, emp\_category, emp\_status from Employee\_category e, Employee\_info i where e.e\_id = i.e\_id and emp\_status !='Manager';



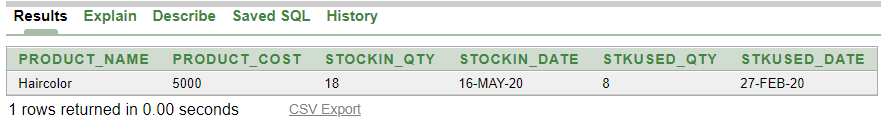
1. display customer name, email, appointment date who took appointment on the date 04-Jan-20.

select customer\_name,customer\_mail,appointment\_date from Customer\_Info c,Appointment\_info a where a.emp\_id=c.emp\_id and appointment\_date='04-JAN-20';



1. display all the product name, cost, stock in quantity, stock in date and stock out quantity, stock out date for the product code 111114.

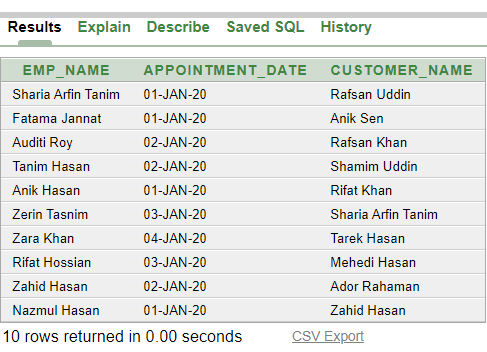
select product\_name, product\_cost, stockIn\_qty, stockIn\_date ,stkused\_qty, stkused\_date from Product\_info p,Stock\_in i,Stock\_used o where p.emp\_id=i.emp\_id and i.emp\_id=o.emp\_id and product\_code=111114



**View**

1. Create or replace view empview as

select emp\_name,Appointment\_date,customer\_name from employee\_info,Appointment\_info,Customer\_Info where employee\_info.emp\_id=Appointment\_info.emp\_id and Appointment\_info.emp\_id=Customer\_Info.emp\_id;



End