

Project Name: "Beauty Parlor Management System"

Group members:

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COURSE NAME: INTRODUCTION TO DATABASE.

COURSE TEACHER: JUENA AHMED NOSHIN

Section: [I].

OBJECTIVES

- Introduction
- Scenario Description
- ER Diagram
- Normalization
- Table Creation
- Data Insertion
- Query Writing
- Conclusion

Introduction:

The title of the project is "beauty parlor management system". We have made the relational tables to make the database system and their information. We have the descriptions of the query that is required to create the tables and insert the values in the tables. We had to go through the normalization process to overcome data insertion, deletion and update anomalies to decide the tables to be created.

We do believe that this project will be beneficial to a lot of new or updatable parlor management system.

Scenario description:

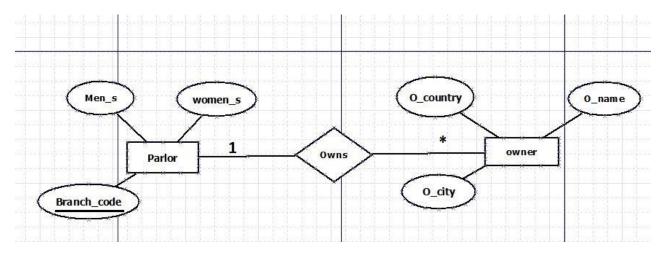
The scenario is of a beauty parlor management system.

- The parlor will be owned by 1 owner. The owner will have the properties like owner country, owner city and owner name. The parlor may have the attributes like men's section and women's arena. The parlor will have the unique attribute named branch code.
- 2. The parlor will hire many employees. Each employee may have properties as employee name, employee id, employee mobile number, the salary of the employee and the skill which is a multivalued attribute.
- 3. The parlor will offer many packages and each of the package may have the properties as follows:
 - =>Package type (multivalued attribute)
 - =>package code (unique key)
 - =>package name
 - =>discount percentage
- 4. The parlor will provide many services and each of the Service may have attributes as service name, service type (Multivalued attribute) and a primary key named service Code.
- 5. The services will be booked by many clients as a many to Many relationship and the clients will have these attributes

As follows:

- =>gender
- =>client name
- =>client mobile number (multivalued)
- =>client id (unique identity)
- 6. In the end, the clients will be served by many employees.

This is a many to many relationship.



UNF:

```
owns (O\_name, O\_country, O\_city, men\_s, women\_s \ , \ branch\_code)
```

1NF:

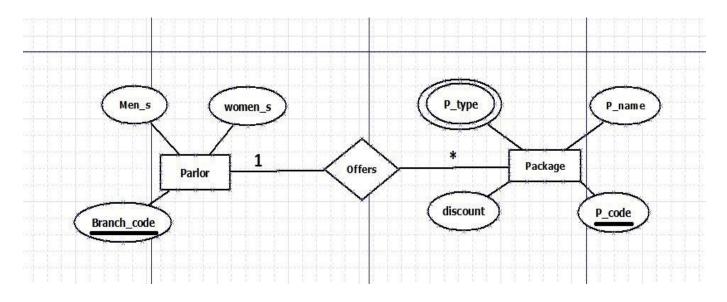
2NF:

(<u>branch_code</u>, men_s, women_s)

3NF:

(O_city, O_country)

(**branch_code**, men_s, women_s)



UNF:

Offers (<u>branch_code</u>, men_s, women_s, <u>p_code</u>, p_name, p_type, discount)

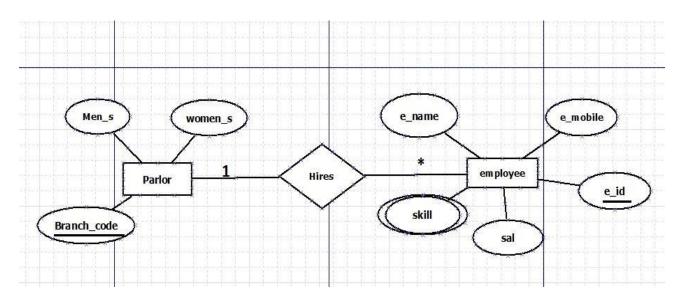
1NF:

(<u>branch_code</u>, men_s, women_s, <u>p_code</u>, p_name, p_type, discount)

2NF:

(<u>branch_code, men_s, women_s</u>)
(<u>p_code_, p_name, p_type, discount, Branch_code</u>

3NF is as same as 2NF.



UNF:

Hires(<u>branch_code</u>, men_s,women_s,<u>e_id</u>,e_name,e_mobile,sal,skill)

1NF:

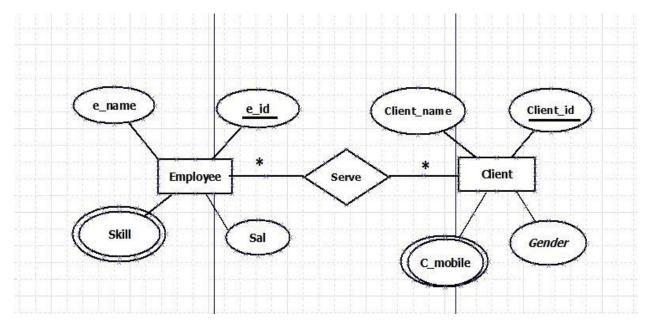
(branch_code,_men_s,women_s,e_id,e_name,e_mobile,sal,skill)

2NF:

(branch_code, men_s, women_s)

(<u>e_id_,</u>e_name,e_mobile,sal,skill, Branch_code

3NF is as 2NF.



UNF:

Serve(<u>e_id_,</u>e_name,e_mobile,sal,skill,<u>c_id_,</u>c_name,c_mobile,gender)

1NF:

 $(\underline{\textbf{e}_\textbf{id}_\textbf{c}}_\texttt{name}, \textbf{e}_\texttt{mobile}, \texttt{sal}, \texttt{skill}, \underline{\textbf{c}_\textbf{id}_\textbf{c}}_\texttt{name}, \textbf{c}_\texttt{mobile}, \texttt{gender})$

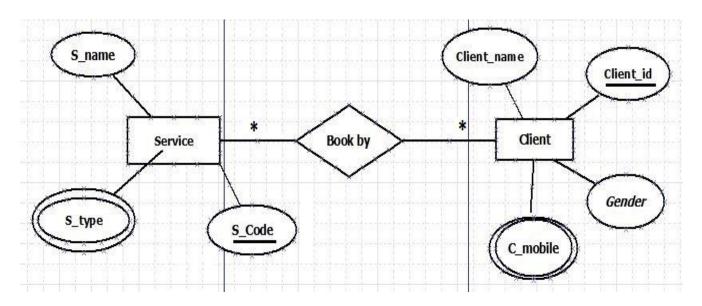
2NF:

(<u>e_id,</u>e_name,e_mobile,sal,skill)

(c_id,c_name,c_mobile,gender)

(<u>e_id, c_id)</u>

3NF is as same as 2NF.



UNF:

Book-by(c_id,c_name,c_mobile,gender,s_code,s_name,s_type)

1NF:

(c_id,c_name,c_mobile,gender,s_code,s_name,s_type)

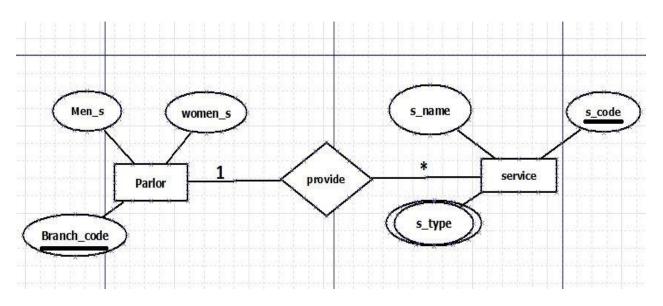
2NF:

(c_id,c_name,c_mobile,gender)

(s_code,s_name,s_type)

(c_id, s_code)

3NF IS AS 2NF.



UNF:

Provide <u>(branch_code</u>, men_s, women_s, s_name, <u>s_code</u>, s_type)

1NF:

(branch_code , men_s, women_s, s_name, s_code, s_type)

2NF:

(branch_code , men_s, women_s)

(s_name,<u>s_code,</u>s_type, Branch_code

3NF is as 2NF.

FINALIZATION:

1. (branch_code, men_s, women_s)

2. (O_name, O_city, Branch_code

3. (<u>e_id_</u>e_name,e_mobile,sal,skill, Branch_code

4. (c_id,c_name,c_mobile,gender)

5. (s_name,**s_code,** s_type, Branch_code

6. (O_city, O_country)

7. (<u>p_code</u>, p_name, p_type, discount, Branch_code

- 8. (<u>e_id, c_id)</u>
- 9. <u>(c_id, s_code)</u>

User: PARLOR

Home > SQL > SQL Commands

☑ Autocommit Display 5000 ✓

create table parlor(branch_code varchar2(10) primary key, men_s varchar2(10), women_s varchar2(10));

desc parlor;

Results Explain Describe Saved SQL History

Object Type TABLE Object PARLOR

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PARLOR	BRANCH CODE	Varchar2	50	-	-	1	-	-	_
	MEN S	Varchar2	50	ž.	0	12	/	6	2
	WOMEN S	Varchar2	50	5	5		/	15"	=
								1	- 3

BRANCH CODE Varchar2

50

User: PARLOR Home > SQL > SQL Commands ☑ Autocommit Display 100000 ~ create table owners(o_name varchar(50), o_city varchar(50),branch_code varchar2(50), CONSTRAINT ky FOREIGN KEY (branch_code)REFERENCES parlor(branch_code)); desc owners; Results Explain Describe Saved SQL History Object Type TABLE Object OWNERS Data Type Nullable Length Precision **Primary Key** Default OWNERS O NAME Varchar2 50 O CITY Varchar2 50

1 - 3

User: PARLOR

Home > SQL > SQL Commands

☑ Autocommit Display 100000 ~

create table employee(e_id varchar2(50) primary key,e_name varchar(50), e_mobile varchar(50), skill varchar(50),sal varchar(50), branch_code varchar2(50), constraint kk foreign KEY (branch_code)REFERENCES parlor(branch_code));

desc employee;

Results Explain Describe Saved SQL History

Object Type TABLE Object EMPLOYE	Object Type	RTF Oplect Five	IPLOYEE
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Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE	E ID	Varchar2	50	2	1 <u>2</u> 7.	1	2	121	2
	E NAME	Varchar2	50	2	2	2	/	2	2
	E MOBILE	Varchar2	50	7.	17	7:	/	-	-
	SKILL	Varchar2	50	-	-	=	/	-	æ
	SAL	Varchar2	50	-	-	=:	/	-	-
	BRANCH CODE	Varchar2	50	2	(4.)	=	/	_	-

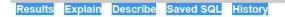
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☑ Autocommit Display 100000 ∨

create table client(c_id varchar2(50) primary key, c_name varchar2(50), c_mobile varchar2(50),c_gender varchar2(50));

desc client;



Object Type TABLE Object CLIENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLIENT	C ID	Varchar2	50	i a		1	-		-
	C NAME	Varchar2	50	Э	-	=	/		-
	C MOBILE	Varchar2	50	-	-	=	/	-	-
	C GENDER	Varchar2	50	4	-	2	/		2,1

User: PARLOR

Home > SQL > SQL Commands

```
☑ Autocommit Display 100000 ∨

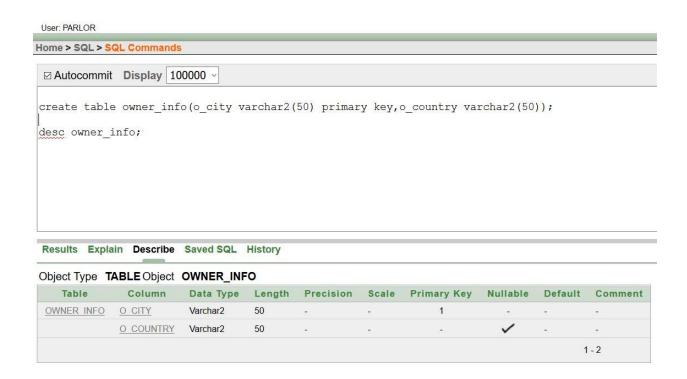
create table provide(s_code varchar(50) primary key,s_name varchar(50),
s_type varchar(50),branch_code varchar2(50),
CONSTRAINT oc FOREIGN KEY (branch_code)REFERENCES parlor(branch_code));

desc provide;
```

Results	Explain	Describe	Saved SQL	History
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Object Type TABLE Object PROVIDE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PROVIDE	S CODE	Varchar2	50	7-	e .	1	-	-	-
	S NAME	Varchar2	50	₹.	æ	11 -1 1	~	Æ	=
	S TYPE	Varchar2	50	-:	-	:	/	. .	-
	BRANCH CODE	Varchar2	50	2	-	-	/	-	2



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☑ Autocommit Display 100000 ∨

create table offers(package_code varchar2(50) primary key,package_name varchar(50), package_type varchar(50), discount varchar(50), branch_code varchar2(50), CONSTRAINT ou FOREIGN KEY (branch_code)REFERENCES parlor(branch_code));

desc offers;

Results	Explain	Describe	Saved SQL	History
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Object Type TABLE Object OFFERS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
OFFERS	PACKAGE CODE	Varchar2	50	-	-	1		æ	5
	PACKAGE NAME	Varchar2	50	-	-	-	/	æ	-
	PACKAGE TYPE	Varchar2	50	-	_		/	÷	-
	DISCOUNT	Varchar2	50	02	22	-	/	٥.	2:
	BRANCH CODE	Varchar2	50	225	_	-	/	2	2

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☑ Autocommit Display 100000 ∨

create table emp_client(e_id number(35),c_id number(35),
constraint attach primary key(e_id,c_id));

desc emp_client;

Results Explain Describe Saved SQL History

Object Type TABLE Object EMP_CLIENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP CLIENT	E ID	Number	-	35	0	1	72	-	_
	C ID	Number	141	35	0	2	12	- :	-
								1	- 2

User: PARLOR

Home > SQL > SQL Commands

☑ Autocommit Display 100000 ~

create table client_service(c_id number(35),s_code number(35),
constraint attached primary key(c_id,s_code));

desc client_service;

Results Explain Describe Saved SQL History

Object Type TABLE Object CLIENT_SERVICE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLIENT SERVICE	C ID	Number	-	35	0	1	-	-	-
	S CODE	Number	-	35	0	2	5	17:	-
								1	- 2

User: PARLOR

Home > SQL > SQL Commands

```
insert into client values('1','Nishi','015******','Female')
insert into client values('2','Mim','016******','Female')
insert into client values('3','shompa','017******','Female')
insert into client values('4','Nazat','018******','Male')
insert into client values('5','Durjoy','019******','Male')

select *from client;
```

Results Explain Describe Saved SQL History

C_ID	C_NAME	C_MOBILE	C_GENDER
1	Nishi	015*****	Female
2	Mim	016*****	Female
3	shompa	017*****	Female
4	Nazat	018*****	Male
5	Durjoy	019*****	Male

5 rows returned in 0.00 seconds

CSV Export

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Home > SQL > SQL Commands

```
☑ Autocommit Display 100000 ∨
insert into emp client values ('101', '1')
insert into emp client values ('102', '2')
insert into emp client values ('103', '3')
insert into emp_client values('104','4')
insert into emp_client values('105','5')
select *from emp client;
```

Results Explain Describe Saved SQL History

E_ID	C_ID			
101	1			
102	2			
103	3			
104	4			
105	5			

5 rows returned in 0.00 seconds CSV Export

User: PARLOR

Home > SQL > SQL Commands

```
insert into employee values('101','Nishat','016*******','hair stylist','$500','P1023')
insert into employee values('102','Anika','017******','Beauty Job','$800','P1023')
insert into employee values('103','Tanjila','018******','Spa Jobs','$700','P1023')
insert into employee values('104','Tanisha','019******','Beauty Therapist','$900','P1023')
insert into employee values('105','Urmila','015******','Nails Jobs','$400','P1023')
select *from employee;
```

Results Explain Describe Saved SQL History

E ID	E NAME	E MOBILE	SKILL	SAL	BRANCH CODE
	The same of	100 - MARCO -		4.4.4.4.4	
101	Nishat	016*****	hair stylist	\$500	P1023
102	Anika	017*****	Beauty Job	\$800	P1023
103	Tanjila	018*****	Spa Jobs	\$700	P1023
104	Tanisha	019*****	Beauty Therapist	\$900	P1023
105	Urmila	015*****	Nails Jobs	\$400	P1023

5 rows returned in 0.00 seconds

CSV Export

User: PARLOR

Home > SQL > SQL Commands

insert into offers values('P101','Spa Summer Offers','Available','15%','P1023') insert into offers values('P102','Hair Treatment','Regular client','35%','P1023') insert into offers values('P103','FREE Colour Treatment for the month of April','Regular client','100%','P1023') insert into offers values('P104','December Hair Straightening','Regular client','25%','P1023') insert into offers values('P105','weekly Beauty Therapy','Regular client','30%','P1023') select *from offers;

Results Explain Describe Saved SQL History

PACKAGE_CODE	PACKAGE_NAME	PACKAGE_TYPE	DISCOUNT	BRANCH_CODE
P101	Spa Summer Offers	Available	15%	P1023
P102	Hair Treatment	Regular client	35%	P1023
P103	FREE Colour Treatment for the month of April	Regular client	100%	P1023
P104	December Hair Straightening	Regular client	25%	P1023
P105	weekly Beauty Therapy	Regular client	30%	P1023

5 rows returned in 0.00 seconds

CSV Export

User: PARLOR

Home > SQL > SQL Commands

☑ Autocommit Display 100000 ~

insert into owner_info values('Dhaka','Bangladesh')

select *from owner info;

Results Explain Describe Saved SQL History

O_CITY O_COUNTRY Dhaka Bangladesh

1 rows returned in 0.00 seconds CSV Export

User: PARLOR

Home > SQL > SQL Commands

Results Explain Describe Saved SQL History

O_NAME	O_CITY	BRANCH_CODE
Ananto Jalil	Dhaka	P1023

1 rows returned in 0.00 seconds CSV Export

1 rows returned in 0.00 seconds

Home > SQL > SQL Commands ✓ Autocommit Display 100000 → insert into parlor values ('P1023', 'Available', 'Available') select *from parlor; Results Explain Describe Saved SQL History BRANCH_CODE MEN_S WOMEN_S P1023 Available Available

CSV Export

User: PARLOR

Home > SQL > SQL Commands

☑ Autocommit Display 100000 ×

insert into provide values('201','Spa','Regular','P1023')

insert into provide values('202','Beauty Therapy','Regular & Home service','P1023')

insert into provide values('203', 'Nails', 'Regular', 'P1023')

insert into provide values('204','Hair cutting','Regular & Home service','P1023')

insert into provide values('205','beauty job','Regular','P1023')

select *from provide;

Results Explain Describe Saved SQL History

S_CODE	S_NAME	S_TYPE	BRANCH_CODE
201	Spa	Regular	P1023
202	Beauty Therapy	Regular & Home service	P1023
203	Nails	Regular	P1023
204	Hair cutting	Regular & Home service	P1023
205	beauty job	Regular	P1023

5 rows returned in 0.00 seconds

CSV Export

User: PARLOR

Home > SQL > SQL Commands

```
☑ Autocommit Display 100000 ~
```

```
insert into client service values ('1', '201')
insert into client service values ('2', '202')
insert into client service values ('3', '203')
insert into client_service values('4','204')
insert into client service values ('5', '205')
```

select *from client service;

Results Explain Describe Saved SQL History

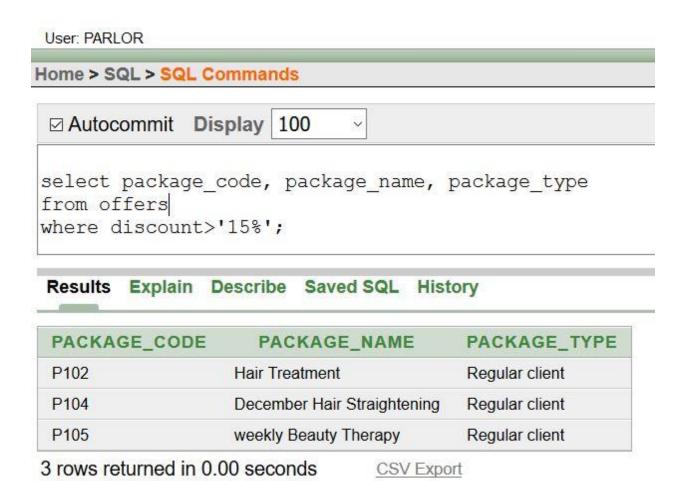
C_ID	S_CODE		
1	201		
2	202		
3	203		
4	204		
5	205		

5 rows returned in 0.02 seconds CSV Export

Query Writing:

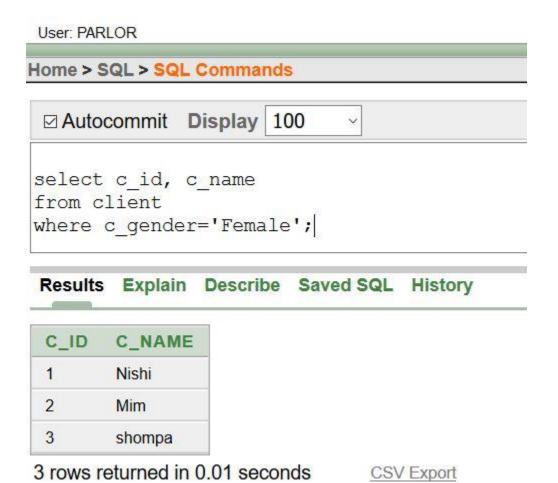
Single row queries:

1. Display the package_code, Package_name,package_type where discount is less than 35%.



Single row queries:

2. Display the id and name of all the female client.



Group function query:

1. Display the name of the employees having the minimum salary of \$700.



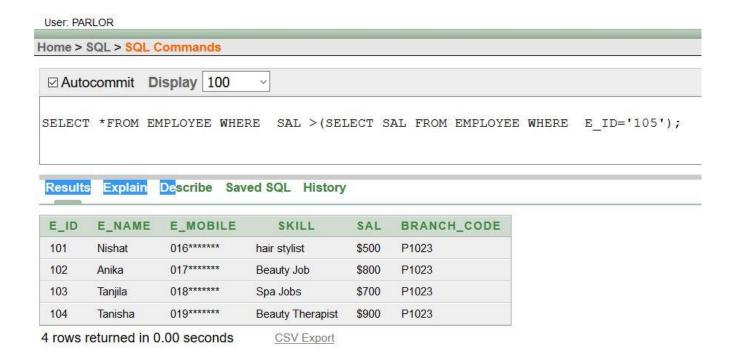
Group function query:

2. Display the count show of the client who's name is "mim".



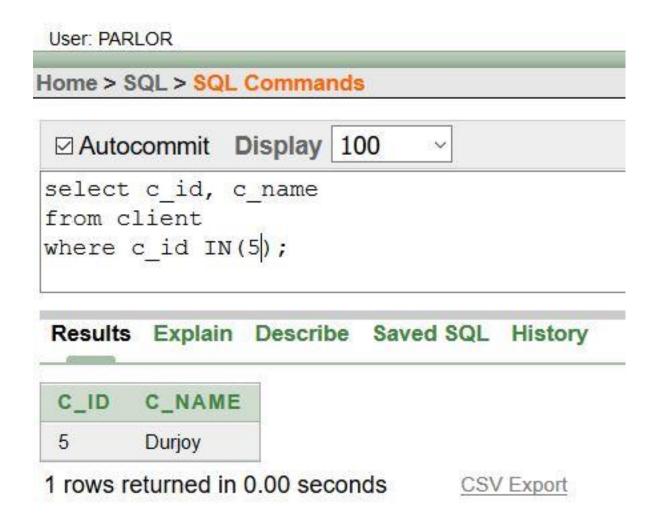
Subquery:

1. Display the salary of the employees who's salary is greater than id of 105.



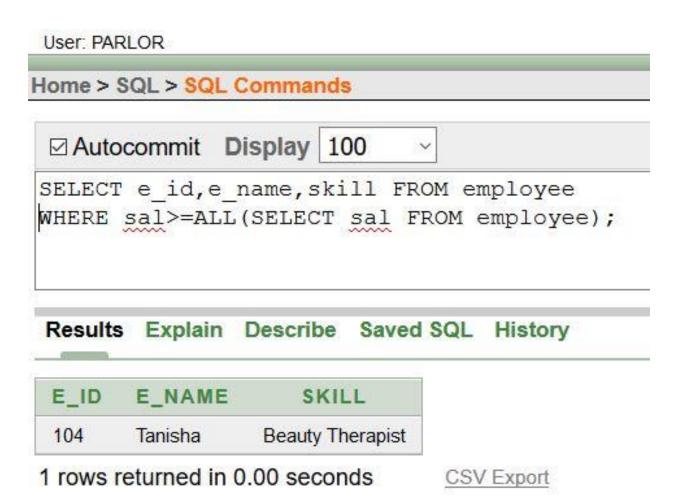
Subquery:

2. Display the name and id of the client who's id is 5.



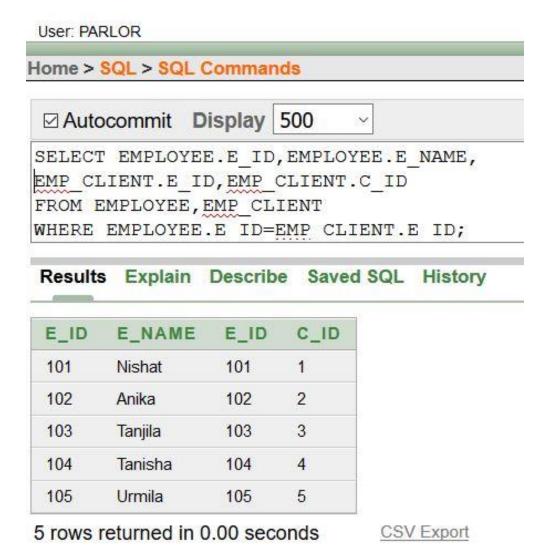
Subquery:

3. Display the name, skill and id of the employee who's salary is greater than all other employees.



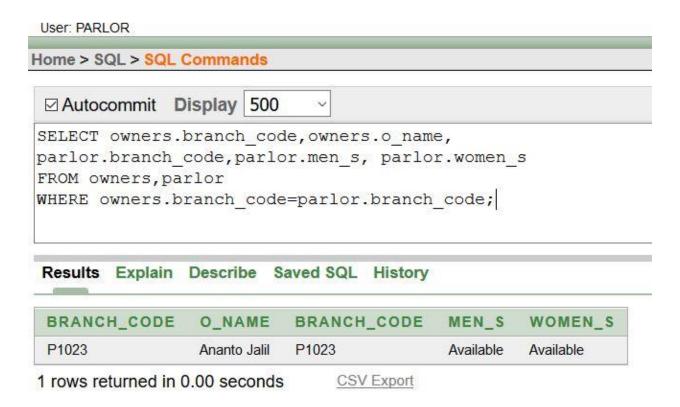
Joining:

1. Join the employee name and client id with the employee id from employee and client table.



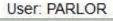
Joining:

2. Join the service code with the client id and service type from the tables named provide and client service.



<u>Joining:</u>

3. Join the branch code with the owner name with the availability of men's section and female section.



Home > SQL > SQL Commands

☑ Autocommit Display 500 ~

SELECT provide.s_code,provide.s_type, CLIENT_service.s_code,CLIENT_service.C_ID FROM provide,CLIENT_service WHERE provide.s_code=CLIENT_service.s_code;

Results Explain Describe Saved SQL History

S_CODE	S_TYPE	S_CODE	C_ID
201	Regular	201	1
202	Regular & Home service	202	2
203	Regular	203	3
204	Regular & Home service	204	4
205	Regular	205	5

5 rows returned in 0.02 seconds

CSV Export

Conclusion:

We have shown all the queries to create the tables in 'oracle 10g'. Also, we had shown the queries to insert the values and took their screen-shots. Here, we made 6 different relations among the entities.

The normalization process has made our work easier.

IN THE FUTURE:

We can make the relational data base tables as a database management system as we have made this project. This job of ours can help a parlor in their data storing systems.