Beauty Center Database System

Prepared by

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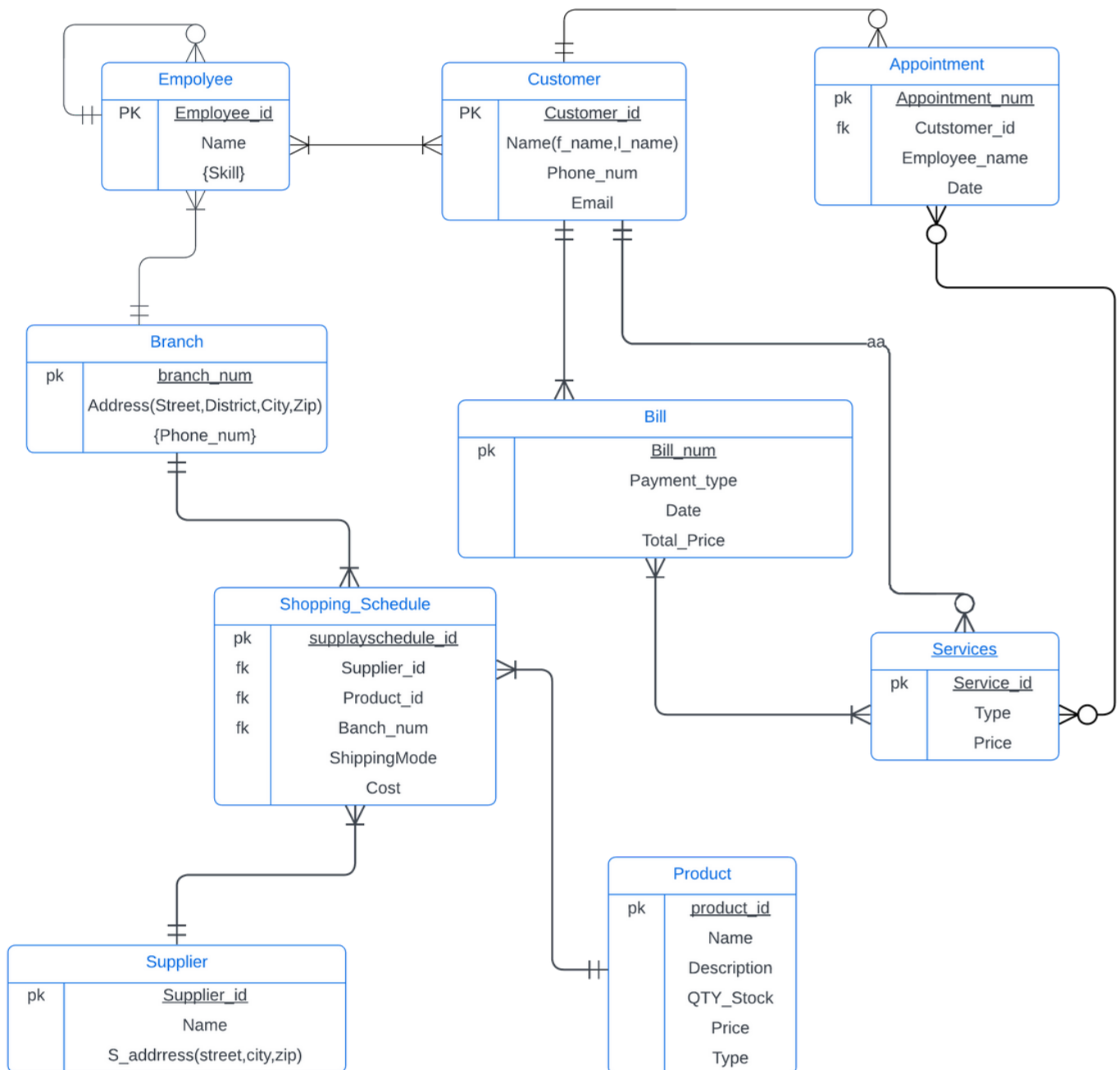*Prepared for*

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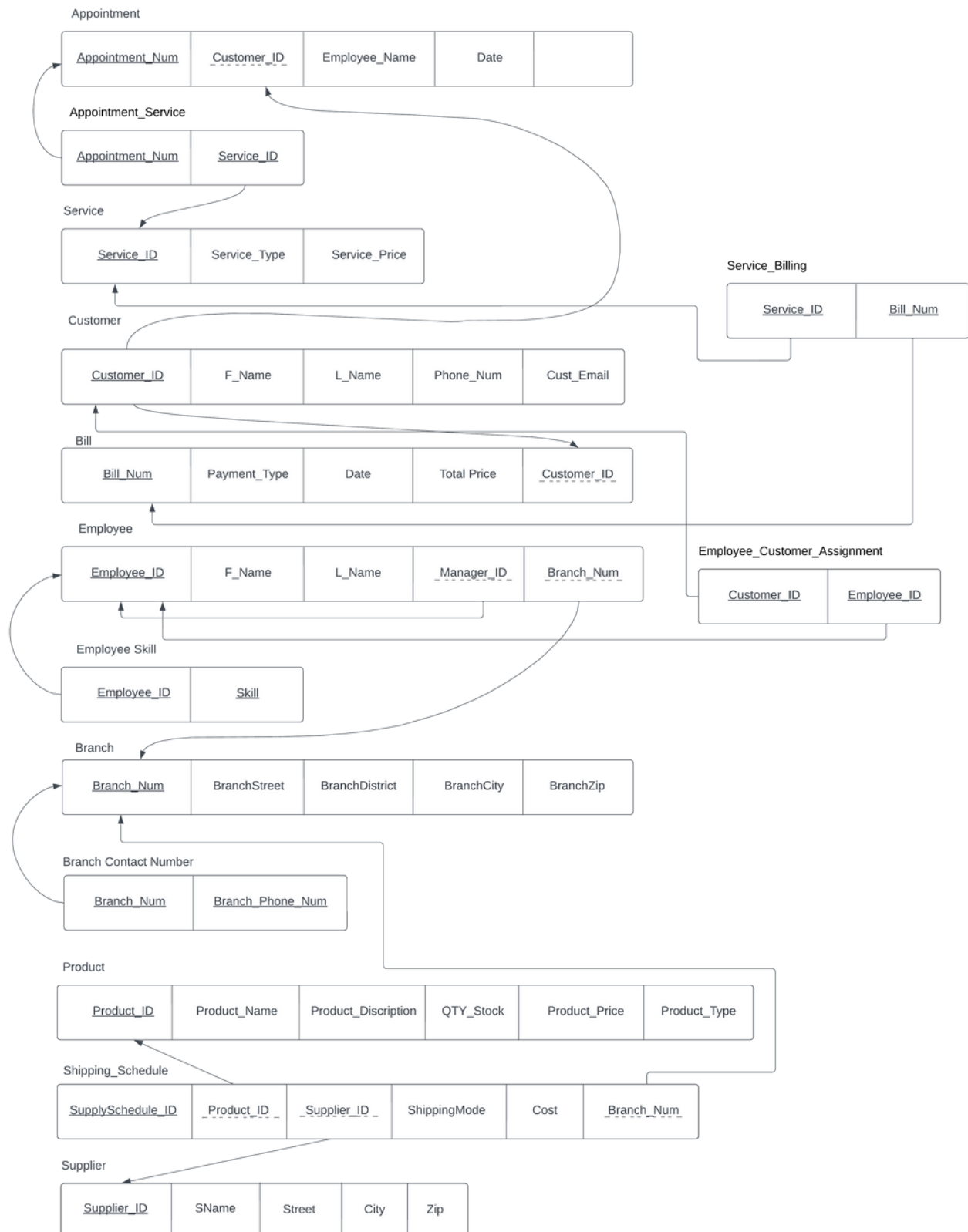
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Rogayah Garout – ID: 2112035

ER DIAGRAM

Empolyee

PK	Employee_id
	Name
	{Skill}

Customer

PK	Customer_id
	Name(f_name,l_name)
	Phone_num
	Email

Appointment

pk	Appointment_num
fk	Cutstomer_id
	Employee_name
	Date

Branch

pk	branch_num
	Address(Street,District,City,Zip)
	{Phone_num}

Bill

pk	Bill_num
	Payment_type
	Date
	Total_Price

Shopping_Schedule

pk	supplayschedule_id
fk	Supplier_id
fk	Product_id
fk	Banch_num
	ShippingMode
	Cost

aa

Services

pk	Service_id
	Type
	Price

Product

pk	product_id
	Name
	Description
	QTY_Stock
	Price
	Type

Supplier

pk	Supplier_id
	Name
	S_addrress(street,city,zip)

RELATIONAL SCHEMA

Appointment

Appointment_Num	Customer_ID	Employee_Name	Date	

Appointment_Service

Appointment_Num	Service_ID

Service

Service_ID	Service_Type	Service_Price

Service_Billing

Service_ID	Bill_Num

Customer

Customer_ID	F_Name	L_Name	Phone_Num	Cust_Email

Bill

Bill_Num	Payment_Type	Date	Total Price	Customer_ID

Employee

Employee_ID	F_Name	L_Name	Manager_ID	Branch_Num

Employee_Customer_Assignment

Customer_ID	Employee_ID

Employee Skill

Employee_ID	Skill

Branch

Branch_Num	BranchStreet	BranchDistrict	BranchCity	BranchZip

Branch Contact Number

Branch_Num	Branch_Phone_Num

Product

Product_ID	Product_Name	Product_Discription	QTY_Stock	Product_Price	Product_Type

Shipping_Schedule

SupplySchedule_ID	Product_ID	Supplier_ID	ShippingMode	Cost	Branch_Num

Supplier

Supplier_ID	SName	Street	City	Zip

The primary relational schema required no normalization

SQL STATEMENTS (CREATING TABLES)

```
create table appointment (
Appointment_Num number(4) primary key ,
Customer_ID number (10),
Employee_Name varchar2 (10) not null,
history date not null );

create table Appointment_Service (
Appointment_Num number(4) ,
Service_ID number(10) ,
constraint Appointment_Service primary key (Appointment_Num,Service_ID) );

create table Service (
Service_ID number(10) primary key ,
Service_Type varchar2 (20) not null,
Service_Price number(6) not null );

create table Service_Billing (
service_id number(10),
Bill_NuM number(10) ,
constraint Service_Billing primary key (service_id,Bill_NuM) );

create table Customer (
Customer_ID number(10) primary key,
F_Name varchar2 (20) not null,
L_Name varchar2 (10) not null,
Phone_Num number(10) not null,
Cust_Email varchar2 (30) not null );

create table Bill (
Bill_Num number(10)primary key,
Payment_Type varchar2 (10) not null,
history date not null,
Total_Price number (20) not null,
Customer_ID number(10) );

create table Employee (
Employee_ID number(10) primary key ,
F_Name varchar2 (20) not null,
L_Name varchar2 (10) not null,
Manager_ID number(10),
Branch_Num number (5) );
```

SQL STATEMENTS (CREATING TABLES)

create table Employee_customer_Assignment (
Customer_ID number(10) ,
Employee_ID number(10) ,
constraint Employee_customer_Assignment primary key (Customer_ID,Employee_ID));

create table Employee_Skill (
Employee_ID number(10) ,
Skill varchar2 (300) ,
constraint Employee_Skill primary key (Employee_ID,Skill));

create table Branch (
Branch_Num number (10) primary key,
BranchStreet varchar2 (25) not null,
BranchDistrict varchar2 (25) not null,
BranchCity varchar2 (30) not null,
BranchZip number (4) not null);

create table Branch_Contact_Number (
Branch_Num number (10),
Branch_Phone_Num number (10),
constraint Branch_Contact_Number primary key (Branch_Num,Branch_Phone_Num));

create table Product (
Product_ID number(10) primary key ,
Product_Name varchar2 (20) not null,
Product_Discription varchar2 (100) not null,
QTY_Stock number(10) not null,
Product_Price number (5) not null,
Product_Type varchar2(25) not null);

create table Shipping_Schedule (
SupplySchedule_ID varchar2(20) primary key,
Product_ID number(10),
Supplier_ID varchar2 (20),
ShippingMode varchar2(20) not null,
costs number(6) not null,
Branch_Num number (5));

create table Supplier (
 Supplier_ID varchar2 (20)primary key ,
 SName varchar2(20) not null,
 Street varchar2(20) not null,
 City varchar2(20) not null,
 Zip number(4) not null);

SQL STATEMENTS (CREATING TABLES)

alter table appointment add constraint CustomerID foreign key (Customer_ID) references Customer (Customer_ID);

alter table Appointment_Service add constraint AppointmentService foreign key (Service_ID) references Service (Service_ID);

alter table Service_Billing add constraint servicBilling foreign key (Service_ID) references Service (Service_ID);

alter table Service_Billing add constraint billingnum foreign key (Bill_Num) references Bill (Bill_Num);

alter table bill add constraint CustomerIDB foreign key (Customer_ID) references Customer (Customer_ID);

alter table Employee add constraint employemanager foreign key (Employee_ID) references Employee (Employee_ID);

alter table employee add constraint employeebranch foreign key (branch_num) references branch (branch_num);

alter table employee_customer_assignment add constraint employee_assignmentid foreign key (employee_id) references employee (employee_id);

alter table employee_skill add constraint employeeskill foreign key (employee_id) references employee (employee_id);

alter table branch_contact_number add constraint branchcontactNumber foreign key (Branch_num) references Branch (Branch_num);

alter table Shipping_Schedule add constraint shipping_product_id foreign key (product_id) references product (product_id);

alter table Shipping_Schedule add constraint shippingSupplier foreign key (supplier_id) references Supplier (supplier_id);

alter table Shipping_Schedule add constraint shippingbranchNum foreign key (branch_Num) references Branch (branch_Num);

SQL STATEMENTS (INSERTING DATA)

```
insert into customer values(112233,'sara','altuwijri',0552555743,'sara@gmail.com');
insert into customer values(112234,'nouf','althunayan',0552555777,'nouf@gmail.com');
insert into customer values(112235,'rand','alojan',0552555989,'rand@gmail.com');
insert into customer values(112236,'ranya','althunayan',0552555111,'ranya@gmail.com');
insert into customer values(112237,'asma','garout',0552555444,'asma@gmail.com');
select*from customer;

insert into Appointment values(1,112233,'dana',date'2022-11-01');
insert into Appointment values(2,112234,'maha',date'2022-11-11');
insert into Appointment values(3,112235,'maha',date'2022-11-12');
insert into Appointment values(4,112236,'malak',date'2022-11-24');
insert into Appointment values(5,112237,'amina',date'2022-11-03');
select*from Appointment;

insert into Service values(01,'Haircut',100);
insert into Service values(02,'Gel polish pedicure',500);
insert into Service values(03,'Highlights',1000);
insert into Service values(04,'Eyebrows',250);
insert into Service values(05,'Blow dry',100);
select*from service;

insert into Appointment_Service values(1,01);
insert into Appointment_Service values(2,02);
insert into Appointment_Service values(3,03);
insert into Appointment_Service values(4,04);
insert into Appointment_Service values(5,05);
insert into Appointment_Service values(1,05);
insert into Appointment_Service values(3,02);
select*from Appointment_Service;

insert into bill values(1001,'cash',date'2022-11-01',200,112233);
insert into bill values(1002,'creditcard',date'2022-11-11',500,112234);
insert into bill values(1003,'cash',date'2022-11-12',1500,112235);
insert into bill values(1004,'cash',date'2022-11-24',250,112236);
insert into bill values(1005,'creditcard',date'2022-11-03',100,112237);
select*from bill;
```

SQL STATEMENTS (INSERTING DATA)

insert into Service_Billing values(01,1001);
insert into Service_Billing values(05,1001);
insert into Service_Billing values(02,1002);
insert into Service_Billing values(03,1003);
insert into Service_Billing values(02,1003);
insert into Service_Billing values(04,1004);
insert into Service_Billing values(05,1005);
select*from Service_Billing;

insert into Branch values(11001, 'Al Raas St', 'Al Tahliah Dist', 'Jeddah', 2223);
insert into Branch values(11002, 'Shawala St', 'Al Muhammadiyyah Dist', 'Jeddah', 2362);
insert into Branch values(11003, 'Al Yaqoot St', 'Obhur Al-Shamaliyah', 'Jeddah', 2301);
insert into Branch values(11004, 'Al Raas', 'Al Tahliah Dist', 'Jeddah', 2862);
insert into Branch values(11005, 'Al Kidda St', 'Al Rabie Dist', 'Riyadh', 2123);
select* from Branch;

insert into Branch_Contact_Number values(11001, 0119188530);
insert into Branch_Contact_Number values(11002, 0113822319);
insert into Branch_Contact_Number values(11003, 0118193409);
insert into Branch_Contact_Number values(11004, 0118682414);
insert into Branch_Contact_Number values(11005, 0113455822);
select* from Branch_Contact_Number;

insert into Employee values(1023457458, 'Nuha', 'Atallah', 8645331172, 11003);
insert into Employee values(4342086237, 'Amal', 'Obeid', 8645331172,11002);
insert into Employee values(8645331172, 'Ghadeer', 'Sattar', 8645331172, 11003);
insert into Employee values(4400664676, 'Afnan', 'Rahmani', 8645331172,11003);
insert into Employee values(5547421790, 'Maya', 'Saleem', 8645331172,11005);
insert into Employee values(1623888670, 'Lujayn', 'Arshad', 8645331172, 11001);
select* from Employee;

insert into Employee_Skill values(1023457458, 'Interpersonal, Stamina, Cosmetology');
insert into Employee_Skill values(4400664676, 'Interpersonal, Sales, Hair Maintenance, Inventory Control');
insert into Employee_Skill values(4342086237, 'Customer Service, Interpersonal, Sales, Nail Maintenance');

SQL STATEMENTS (INSERTING DATA)

insert into Employee_Skill values(5547421790, 'Interpersonal, Hair Maintenance, Cosmetology, Collaborative');
insert into Employee_Skill values(1623888670, 'Stamina, Marketing, Inventory Control, Hair Cutting, Hair Styling');
select* from Employee_Skill;

insert into Employee_customer_Assignment values(112233, 1023457458);
insert into Employee_customer_Assignment values(112234, 5547421790);
insert into Employee_customer_Assignment values(112235, 1623888670);
insert into Employee_customer_Assignment values(112236, 5547421790);
insert into Employee_customer_Assignment values(112237, 4342086237);
select* from Employee_customer_Assignment;

insert into Product values(111101, 'Hair Dye', 'Higlight Hair Product', 90, 70, 'Hair');
insert into Product values(111102, 'Scissors', 'Hair Trimming Product', 90, 25, 'Hair');
insert into Product values(111103, 'Pedicure Set', 'Nail Care Product', 500, 30, 'Nail');
insert into Product values(111104, 'Blowdryer', 'Hair Styling Product', 90, 55, 'Hair');
insert into Product values(111105, 'Nail Gel Set', 'Nail Product', 89, 65, 'Nail');
select* from Product;

insert into Supplier values('0951DCDF9F8EEC4D7', 'SupplyLoad', 'Hamza St', 'Makkah', 2390);
insert into Supplier values('5981469E1742824AC', 'MoveSell', 'Al Kitab St', 'Jeddah', 2093);
insert into Supplier values('9959CFBAE631358C6', 'DemMerch', 'Nael St', 'Riyadh', 2394);
insert into Supplier values('84B5E387AA114748C', 'Francize', 'Al Samargandi St', 'Riyadh', 2193);
insert into Supplier values('E92CD3BE67834B6E2', 'TTS ProSell', 'Al Dowaisri St', 'Riaydh', 4563);
select* from Supplier;

insert into Shipping_Schedule values('A64315F0FAC94396', 111101, '0951DCDF9F8EEC4D7', 'LTL Shipping ', 8500, 11001);
insert into Shipping_Schedule values('857C31C6AECDA136', 111103, '9959CFBAE631358C6', 'LTL Shipping ', 16700, 11001);
insert into Shipping_Schedule values('BAB15F2EA17F15A8', 111104, '9959CFBAE631358C6', 'LTL Shipping ', 7450, 11004);
insert into Shipping_Schedule values('437BAFF671F14652', 111102, 'E92CD3BE67834B6E2', 'LTL Shipping ', 4500, 11002);
insert into Shipping_Schedule values('3C64FBFF71E04083', 111105, 'E92CD3BE67834B6E2', 'LTL Shipping ', 9000, 11005);
select* from Shipping_Schedule;

SQL STATEMENTS (DATA QUERIES)

```
select count (Appointment_Num),Employee_Name
from appointment
group by Employee_Name
order by count (Appointment_Num) ASC;

select SUM(Total_Price)
from Bill;

select Product_Name
from Product
where Product_ID in
(select distinct Product_ID from Shipping_Schedule);

select Customer.Customer_ID,F_Name, appointment.Appointment_Num
from Customer
full outer join appointment on Customer.Customer_ID= appointment.Customer_ID;
```

SQL STATEMENTS (CREATING TABLES)

```sql
 1  create table appointment (
 2  Appointment_Num number(4) primary  key ,
 3  Customer_ID number (10),
 4  Employee_Name varchar2 (10) not null,
 5  history date not null );
 6
 7  create table Appointment_Service (
 8  Appointment_Num number(4) ,
 9  Service_ID number(10)  ,
10  constraint Appointment_Service primary  key (Appointment_Num,Service_ID) );
11
12  create table Service (
13  Service_ID number(10) primary  key ,
14  Service_Type varchar2 (20) not null,
15  Service_Price number(6) not null );
16
17  create table Service_Billing (
18  service_id number(10),
19  Bill_NuM number(10) ,
20  constraint Service_Billing primary  key (service_id,Bill_NuM) );
21
22  create table Customer (
23  Customer_ID number(10) primary  key,
24  F_Name varchar2 (20) not null,
25  L_Name varchar2 (10) not null,
26  Phone_Num number(10) not null,
27  Cust_Email varchar2 (30) not null );
28
29  create table Bill (
30  Bill_Num number(10)primary  key,
31  Payment_Type varchar2 (10) not null,
32  history date not null,
33  Total_Price number (20) not null,
34  Customer_ID number(10) );
35
36  create table Employee (
37  Employee_ID number(10) primary  key ,
38  F_Name varchar2 (20) not null,
39  L_Name varchar2 (10) not null,
40  Manager_ID number(10),
41  Branch_Num number (5) );
42
43
44
45  create table Employee_customer_Assignment (
46  Customer_ID number(10) ,
47  Employee_ID number(10)   ,
48  constraint Employee_customer_Assignment primary  key (Customer_ID,Employee_ID) );
49
50  create table Employee_Skill (
51  Employee_ID number(10) ,
52  Skill varchar2 (300) ,
53  constraint Employee_Skill primary  key (Employee_ID,Skill) );
54
55  create table Branch (
56  Branch_Num number (10) primary key,
57  BranchStreet varchar2 (25) not null,
58  BranchDistrict varchar2 (25) not null,
59  BranchCity varchar2 (30) not null,
60  BranchZip number (4) not null );
61
62  create table Branch_Contact_Number (
63  Branch_Num number (10),
64  Branch_Phone_Num number (10),
65  constraint Branch_Contact_Number primary  key (Branch_Num,Branch_Phone_Num) );
66
67  create table Product (
68  Product_ID number(10) primary key ,
```

SQL STATEMENTS (CREATING TABLES)

```sql
69  Product_Name varchar2 (20) not null,
70  Product_Discription varchar2 (100) not null,
71  QTY_Stock number(10) not null,
72  Product_Price number (5) not null,
73  Product_Type varchar2(25) not null );
74
75  create table Shipping_Schedule  (
76  SupplySchedule_ID varchar2(20) primary key,
77  Product_ID number(10),
78  Supplier_ID varchar2 (20),
79  ShippingMode varchar2(20) not null,
80  costs number(6) not null,
81  Branch_Num number (5) );
82
83  create table Supplier (
84   Supplier_ID varchar2 (20)primary key ,
85   SName varchar2(20) not null,
86   Street varchar2(20) not null,
87   City varchar2(20) not null,
88   Zip number(4) not null );
89
90
91
92
93  alter table appointment add constraint CustomerID foreign key (Customer_ID) references Customer (Customer_ID);
94
95  alter table Appointment_Service add constraint AppointmentService foreign key (Service_ID) references Service (Service_ID);
96
97  alter table Service_Billing  add constraint servicBilling foreign key (Service_ID) references Service (Service_ID);
98
99  alter table Service_Billing  add constraint billingnum foreign key (Bill_Num) references Bill (Bill_Num);
100
101 alter table bill  add constraint CustomerIDB foreign key (Customer_ID) references Customer (Customer_ID);
102
103 alter table Employee  add constraint employeemanager foreign key (Employee_ID) references Employee (Employee_ID);
104
105 alter table employee  add constraint employeebranch foreign key (branch_num) references branch (branch_num);
106
107 alter table employee_customer_assignment  add constraint employee_assignmentid foreign key (employee_id) references employee (employee_id);
108
109 alter table employee_skill  add constraint employeeskill foreign key (employee_id) references employee (employee_id);
110
111 alter table branch_contact_number  add constraint branchcontactNumber foreign key (Branch_num) references Branch (Branch_num);
112
113 alter table Shipping_Schedule  add constraint shipping_product_id foreign key (product_id) references product (product_id);
114
115 alter table Shipping_Schedule  add constraint shippingSupplier foreign key (supplier_id) references Supplier (supplier_id);
116
117 alter table Shipping_Schedule  add constraint shippingbranchNum foreign key (branch_Num) references  Branch (branch_Num);
118
119
```

SQL STATEMENTS (INSERTING DATA)

```
120  insert into customer values(112233,'sara','altuwijri',0552555743,'sara@gmail.com');
121  insert into customer values(112234,'nouf','althunayan',0552555777,'nouf@gmail.com');
122  insert into customer values(112235,'rand','alojan',0552555989,'rand@gmail.com');
123  insert into customer values(112236,'ranya','althunayan',0552555111,'ranya@gmail.com');
124  insert into customer values(112237,'asma','garout',0552555444,'asma@gmail.com');
125  select*from customer;
126
127  insert into Appointment values(1,112233,'dana',date'2022-11-01');
128  insert into Appointment values(2,112234,'maha',date'2022-11-11');
129  insert into Appointment values(3,112235,'maha',date'2022-11-12');
130  insert into Appointment values(4,112236,'malak',date'2022-11-24');
131  insert into Appointment values(5,112237,'amina',date'2022-11-03');
132  select*from Appointment;
133
134  insert into Service values(01,'Haircut',100);
135  insert into Service values(02,'Gel polish pedicure',500);
136  insert into Service values(03,'Highlights',1000);
137  insert into Service values(04,'Eyebrows',250);
138  insert into Service values(05,'Blow dry',100);
139  select*from service;
140
141  insert into Appointment_Service values(1,01);
142  insert into Appointment_Service values(2,02);
143  insert into Appointment_Service values(3,03);
144  insert into Appointment_Service values(4,04);
145  insert into Appointment_Service values(5,05);
146  insert into Appointment_Service values(1,05);
147  insert into Appointment_Service values(3,02);
148  select*from Appointment_Service;
149
150  insert into bill values(1001,'cash',date'2022-11-01',200,112233);
151  insert into bill values(1002,'creditcard',date'2022-11-11',500,112234);
152  insert into bill values(1003,'cash',date'2022-11-12',1500,112235);
153  insert into bill values(1004,'cash',date'2022-11-24',250,112236);
154  insert into bill values(1005,'creditcard',date'2022-11-03',100,112237);
155  select*from bill;
156
157  insert into Service_Billing values(01,1001);
158  insert into Service_Billing values(05,1001);
159  insert into Service_Billing values(02,1002);
160  insert into Service_Billing values(03,1003);
161  insert into Service_Billing values(02,1003);
162  insert into Service_Billing values(04,1004);
163  insert into Service_Billing values(05,1005);
164  select*from Service_Billing;
165
166
167
168  insert into Branch values(11001, 'Al Raas St', 'Al Tahliah Dist', 'Jeddah', 2223);
169  insert into Branch values(11002, 'Shawala St', 'Al Muhammadiyyah Dist', 'Jeddah', 2362);
170  insert into Branch values(11003, 'Al Yaqoot St', 'Obhur Al-Shamaliyah', 'Jeddah', 2301);
171  insert into Branch values(11004, 'Al Raas', 'Al Tahliah Dist', 'Jeddah', 2862);
172  insert into Branch values(11005, 'Al Kidda St', 'Al Rabie Dist', 'Riyadh', 2123);
173  select* from Branch;
174
175  insert into Branch_Contact_Number values(11001, 0119188530);
176  insert into Branch_Contact_Number values(11002, 0113822319);
177  insert into Branch_Contact_Number values(11003, 0118193409);
178  insert into Branch_Contact_Number values(11004, 0118682414);
179  insert into Branch_Contact_Number values(11005, 0113455822);
180  select* from Branch_Contact_Number;
181
182  insert into Employee values(1023457458, 'Nuha', 'Atallah', 8645331172, 11003);
183  insert into Employee values(4342086237, 'Amal', 'Obeid', 8645331172, 11002);
184  insert into Employee values(8645331172, 'Ghadeer', 'Sattar', 8645331172, 11003);
185  insert into Employee values(4400664676, 'Afnan', 'Rahmani', 8645331172,11003);
186  insert into Employee values(5547421790, 'Maya', 'Saleem', 8645331172,11005);
187  insert into Employee values(1623888670, 'Lujayn', 'Arshad', 8645331172, 11001);
188  select* from Employee;
189
190  insert into Employee_Skill values(1023457458, 'Interpersonal, Stamina, Cosmetology');
191  insert into Employee_Skill values(4400664676, 'Interpersonal, Sales, Hair Maintenance, Inventory Control');
192  insert into Employee_Skill values(4342086237, 'Customer Service, Interpersonal, Sales, Nail Maintenance');
193  insert into Employee_Skill values(5547421790, 'Interpersonal, Hair Maintenance, Cosmetology, Collaborative');
194  insert into Employee_Skill values(1623888670, 'Stamina, Marketing, Inventory Control, Hair Cutting, Hair Styling');
195  select* from Employee_Skill;
196
```

SQL STATEMENTS (INSERTING DATA)

```sql
197  insert into Employee_customer_Assignment values(112233, 1023457458);
198  insert into Employee_customer_Assignment values(112234, 5547421790);
199  insert into Employee_customer_Assignment values(112235, 1623888670);
200  insert into Employee_customer_Assignment values(112236, 5547421790);
201  insert into Employee_customer_Assignment values(112237, 4342086237);
202  select* from Employee_customer_Assignment;
203
204  insert into Product values(111101, 'Hair Dye', 'Higlight Hair Product', 90, 70, 'Hair');
205  insert into Product values(111102, 'Scissors', 'Hair Trimming Product', 90, 25, 'Hair');
206  insert into Product values(111103, 'Pedicure Set', 'Nail Care Product', 500, 30, 'Nail');
207  insert into Product values(111104, 'Blowdryer', 'Hair Styling Product', 90, 55, 'Hair');
208  insert into Product values(111105, 'Nail Gel Set', 'Nail Product', 89, 65, 'Nail');
209  select* from Product;
210
211  insert into Supplier values('0951DCDF9F8EEC4D7', 'SupplyLoad', 'Hamza St', 'Makkah', 2390);
212  insert into Supplier values('5981469E1742824AC', 'MoveSell', 'Al Kitab St', 'Jeddah', 2093);
213  insert into Supplier values('9959CFBAE631358C6', 'DemMerch', 'Nael St', 'Riyadh', 2394);
214  insert into Supplier values('84B5E387AA114748C', 'Francize', 'Al Samargandi St', 'Riyadh', 2193);
215  insert into Supplier values('E92CD3BE67834B6E2', 'TTS ProSell', 'Al Dowaisri St', 'Riaydh', 4563);
216  select* from Supplier;
217
218  insert into Shipping_Schedule values('A64315F0FAC94396', 111101, '0951DCDF9F8EEC4D7', 'LTL Shipping ', 8500, 11001);
219  insert into Shipping_Schedule values('857C31C6AECDA136', 111103, '9959CFBAE631358C6', 'LTL Shipping ', 16700, 11001);
220  insert into Shipping_Schedule values('BAB15F2EA17F15A8', 111104, '9959CFBAE631358C6', 'LTL Shipping ', 7450, 11004);
221  insert into Shipping_Schedule values('437BAFF671F14652', 111102, 'E92CD3BE67834B6E2', 'LTL Shipping ', 4500, 11002);
222  insert into Shipping_Schedule values('3C64FBFF71E04083', 111105, 'E92CD3BE67834B6E2', 'LTL Shipping ', 9000, 11005);
223  select* from Shipping_Schedule;
224
```

SQL STATEMENTS (DATA QUERIES & THEIR OUTPUT)

```
225  select count (Appointment_Num),Employee_Name
226  from appointment
227  group by Employee_Name
228  order by count (Appointment_Num) ASC;
229
230  select SUM(Total_Price)
231  from Bill;
232
233  select Product_Name
234  from Product
235  where Product_ID in
236  (select distinct Product_ID from Shipping_Schedule);
237
238  select Customer.Customer_ID,F_Name, appointment.Appointment_Num
239  from Customer
240  full outer join appointment on Customer.Customer_ID= appointment.Customer_ID;
241
```

COUNT(APPOINTMENT_NUM)	EMPLOYEE_NAME
1	dana
1	malak
1	amina
2	maha

Download CSV
4 rows selected.

SUM(TOTAL_PRICE)
2550

Download CSV

PRODUCT_NAME
Hair Dye
Pedicure Set
Blowdryer
Scissors
Nail Gel Set

Download CSV

CUSTOMER_ID	F_NAME	APPOINTMENT_NUM
112233	sara	1
112234	nouf	2
112235	rand	3
112236	ranya	4
112237	asma	5

Download CSV
5 rows selected.

SQL STATEMENTS (ALL TABLES AND THEIR DATA)

CUSTOMER_ID	F_NAME	L_NAME	PHONE_NUM	CUST_EMAIL
112233	sara	altuwijri	552555743	sara@gmail.com
112234	nouf	althunayan	552555777	nouf@gmail.com
112235	rand	alojan	552555989	rand@gmail.com
112236	ranya	althunayan	552555111	ranya@gmail.com
112237	asma	garout	552555444	asma@gmail.com

Download CSV
5 rows selected.

APPOINTMENT_NUM	CUSTOMER_ID	EMPLOYEE_NAME	HISTORY
1	112233	dana	01-NOV-22
2	112234	maha	11-NOV-22
3	112235	maha	12-NOV-22
4	112236	malak	24-NOV-22
5	112237	amina	03-NOV-22

Download CSV
5 rows selected.

SERVICE_ID	SERVICE_TYPE	SERVICE_PRICE
1	Haircut	100
2	Gel polish pedicure	500
3	Highlights	1000
4	Eyebrows	250
5	Blow dry	100

Download CSV
5 rows selected.

APPOINTMENT_NUM	SERVICE_ID
1	1
1	5
2	2
3	2
3	3
4	4
5	5

Download CSV
7 rows selected.

BILL_NUM	PAYMENT_TYPE	HISTORY	TOTAL_PRICE	CUSTOMER_ID
1001	cash	01-NOV-22	200	112233
1002	creditcard	11-NOV-22	500	112234
1003	cash	12-NOV-22	1500	112235
1004	cash	24-NOV-22	250	112236
1005	creditcard	03-NOV-22	100	112237

Download CSV
5 rows selected.

SQL STATEMENTS (DATA QUERIES & OUTPUT)

SERVICE_ID	BILL_NUM
1	1001
2	1002
2	1003
3	1003
4	1004
5	1001
5	1005

Download CSV
7 rows selected.

BRANCH_NUM	BRANCHSTREET	BRANCHDISTRICT	BRANCHCITY	BRANCHZIP
11001	Al Raas St	Al Tahliah Dist	Jeddah	2223
11002	Shawala St	Al Muhammadiyyah Dist	Jeddah	2362
11003	Al Yaqoot St	Obhur Al-Shamaliyah	Jeddah	2301
11004	Al Raas	Al Tahliah Dist	Jeddah	2862
11005	Al Kidda St	Al Rabie Dist	Riyadh	2123

Download CSV
5 rows selected.

BRANCH_NUM	BRANCH_PHONE_NUM
11001	119188530
11002	113822319
11003	118193409
11004	118682414
11005	113455822

Download CSV
5 rows selected.

EMPLOYEE_ID	F_NAME	L_NAME	MANAGER_ID	BRANCH_NUM
1023457458	Nuha	Atallah	8645331172	11003
4342086237	Amal	Obeid	8645331172	11002
8645331172	Ghadeer	Sattar	8645331172	11003
4400664676	Afnan	Rahmani	8645331172	11003
5547421790	Maya	Saleem	8645331172	11005
1623888670	Lujayn	Arshad	8645331172	11001

Download CSV
6 rows selected.

EMPLOYEE_ID	SKILL
1023457458	Interpersonal, Stamina, Cosmetology
1623888670	Stamina, Marketing, Inventory Control, Hair Cutting, Hair Styling
4342086237	Customer Service, Interpersonal, Sales, Nail Maintenance
4400664676	Interpersonal, Sales, Hair Maintenance, Inventory Control
5547421790	Interpersonal, Hair Maintenance, Cosmetology, Collaborative

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5 rows selected.

SQL STATEMENTS (DATA QUERIES & OUTPUT)

CUSTOMER_ID	EMPLOYEE_ID
112233	1023457458
112234	5547421790
112235	1623888670
112236	5547421790
112237	4342086237

Download CSV
5 rows selected.

PRODUCT_ID	PRODUCT_NAME	PRODUCT_DISCRIPTION	QTY_STOCK	PRODUCT_PRICE	PRODUCT_TYPE
111101	Hair Dye	Higlight Hair Product	90	70	Hair
111102	Scissors	Hair Trimming Product	90	25	Hair
111103	Pedicure Set	Nail Care Product	500	30	Nail
111104	Blowdryer	Hair Styling Product	90	55	Hair
111105	Nail Gel Set	Nail Product	89	65	Nail

Download CSV
5 rows selected.

SUPPLIER_ID	SNAME	STREET	CITY	ZIP
0951DCDF9F8EEC4D7	SupplyLoad	Hamza St	Makkah	2390
5981469E1742824AC	MoveSell	Al Kitab St	Jeddah	2093
9959CFBAE631358C6	DemMerch	Nael St	Riyadh	2394
84B5E387AA114748C	Francize	Al Samargandi St	Riyadh	2193
E92CD3BE67834B6E2	TTS ProSell	Al Dowaisri St	Riaydh	4563

Download CSV
5 rows selected.

SUPPLYSCHEDULE_ID	PRODUCT_ID	SUPPLIER_ID	SHIPPINGMODE	COSTS	BRANCH_NUM
A64315F0FAC94396	111101	0951DCDF9F8EEC4D7	LTL Shipping	8500	11001
857C31C6AECDA136	111103	9959CFBAE631358C6	LTL Shipping	16700	11001
BAB15F2EA17F15A8	111104	9959CFBAE631358C6	LTL Shipping	7450	11004
437BAFF671F14652	111102	E92CD3BE67834B6E2	LTL Shipping	4500	11002
3C64FBFF71E04083	111105	E92CD3BE67834B6E2	LTL Shipping	9000	11005

Download CSV
5 rows selected.

SQL SCHEMA OBJECTS

Schema \
APPOINTMENT

Syntax Help ⌄ | Actions ⌄ | View All Objects

Show All | Table Attributes | Columns | Indexes | Triggers | Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	APPOINTMENT_NUM	NUMBER	22	4	0	No		
2	CUSTOMER_ID	NUMBER	22	10	0	Yes		
3	EMPLOYEE_NAME	VARCHAR2	10			No	Byte	
4	HISTORY	DATE	7			No		

Schema \
APPOINTMENT_SERVICE

Syntax Help ⌄ | Actions ⌄ | View All Objects

Show All | Table Attributes | Columns | Indexes | Triggers | Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	APPOINTMENT_NUM	NUMBER	22	4	0	No		
2	SERVICE_ID	NUMBER	22	10	0	No		

Schema \
BILL

Syntax Help ⌄ | Actions ⌄ | View All Objects

Show All | Table Attributes | Columns | Indexes | Triggers | Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	BILL_NUM	NUMBER	22	10	0	No		
2	PAYMENT_TYPE	VARCHAR2	10			No	Byte	
3	HISTORY	DATE	7			No		
4	TOTAL_PRICE	NUMBER	22	20	0	No		
5	CUSTOMER_ID	NUMBER	22	10	0	Yes		

SQL SCHEMA OBJECTS

Schema \
BRANCH

Syntax Help ∨ | Actions ∨ | **View All Objects**

Show All Table Attributes **Columns** Indexes Triggers Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	BRANCH_NUM	NUMBER	22	10	0	No		
2	BRANCHSTREET	VARCHAR2	25			No	Byte	
3	BRANCHDISTRICT	VARCHAR2	25			No	Byte	
4	BRANCHCITY	VARCHAR2	30			No	Byte	
5	BRANCHZIP	NUMBER	22	4	0	No		

Schema \
BRANCH_CONTACT_NUMBER

Syntax Help ∨ | Actions ∨ | **View All Objects**

Show All Table Attributes **Columns** Indexes Triggers Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	BRANCH_NUM	NUMBER	22	10	0	No		
2	BRANCH_PHONE_NUM	NUMBER	22	10	0	No		

Schema \
CUSTOMER

Syntax Help ∨ | Actions ∨ | **View All Objects**

Show All Table Attributes **Columns** Indexes Triggers Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	CUSTOMER_ID	NUMBER	22	10	0	No		
2	F_NAME	VARCHAR2	20			No	Byte	
3	L_NAME	VARCHAR2	10			No	Byte	
4	PHONE_NUM	NUMBER	22	10	0	No		
5	CUST_EMAIL	VARCHAR2	30			No	Byte	

SQL SCHEMA OBJECTS

EMPLOYEE

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Show All   Table Attributes   Columns   Indexes   Triggers   Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	EMPLOYEE_ID	NUMBER	22	10	0	No		
2	F_NAME	VARCHAR2	20			No	Byte	
3	L_NAME	VARCHAR2	10			No	Byte	
4	MANAGER_ID	NUMBER	22	10	0	Yes		
5	BRANCH_NUM	NUMBER	22	5	0	Yes		

EMPLOYEE_CUSTOMER_ASSIGNMENT

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Show All   Table Attributes   Columns   Indexes   Triggers   Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	CUSTOMER_ID	NUMBER	22	10	0	No		
2	EMPLOYEE_ID	NUMBER	22	10	0	No		

EMPLOYEE_SKILL

Syntax Help ⌄ | Actions ⌄ | View All Objects

Show All   Table Attributes   Columns   Indexes   Triggers   Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	EMPLOYEE_ID	NUMBER	22	10	0	No		
2	SKILL	VARCHAR2	300			No	Byte	

SQL SCHEMA OBJECTS

PRODUCT

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Show All Table Attributes Columns Indexes Triggers Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	PRODUCT_ID	NUMBER	22	10	0	No		
2	PRODUCT_NAME	VARCHAR2	20			No	Byte	
3	PRODUCT_DISCRIPTION	VARCHAR2	100			No	Byte	
4	QTY_STOCK	NUMBER	22	10	0	No		
5	PRODUCT_PRICE	NUMBER	22	5	0	No		
6	PRODUCT_TYPE	VARCHAR2	25			No	Byte	

SERVICE

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Show All Table Attributes Columns Indexes Triggers Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	SERVICE_ID	NUMBER	22	10	0	No		
2	SERVICE_TYPE	VARCHAR2	20			No	Byte	
3	SERVICE_PRICE	NUMBER	22	6	0	No		

SERVICE_BILLING

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Show All Table Attributes Columns Indexes Triggers Constraints

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	SERVICE_ID	NUMBER	22	10	0	No		
2	BILL_NUM	NUMBER	22	10	0	No		

SQL SCHEMA OBJECTS

SHIPPING_SCHEDULE

Show All   Table Attributes   **Columns**   Indexes   Triggers   Constraints

Syntax Help ⌄   Actions ⌄   **View All Objects**

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	SUPPLYSCHEDULE_ID	VARCHAR2	20			No	Byte	
2	PRODUCT_ID	NUMBER	22	10	0	Yes		
3	SUPPLIER_ID	VARCHAR2	20			Yes	Byte	
4	SHIPPINGMODE	VARCHAR2	20			No	Byte	
5	COSTS	NUMBER	22	6	0	No		
6	BRANCH_NUM	NUMBER	22	5	0	Yes		

SUPPLIER

Show All   Table Attributes   **Columns**   Indexes   Triggers   Constraints

Syntax Help ⌄   Actions ⌄   **View All Objects**

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	SUPPLIER_ID	VARCHAR2	20			No	Byte	
2	SNAME	VARCHAR2	20			No	Byte	
3	STREET	VARCHAR2	20			No	Byte	
4	CITY	VARCHAR2	20			No	Byte	
5	ZIP	NUMBER	22	4	0	No		