/\*alter table Employees drop constraint fk\_Employees\_ServiceCenters;

alter table Employees drop constraint fk\_Employees\_SalaryIndex;

alter table Employees drop constraint fk\_Employees\_Roles;

alter table Employees drop constraint SYS\_C0096049781;

drop table Employees;

SELECT CONSTRAINT\_NAME

FROM USER\_CONSTRAINTS WHERE TABLE\_NAME = 'xxx'

AND CONSTRAINT\_TYPE = 'U'

BEGIN

FOR r IN (

SELECT TABLE\_NAME, CONSTRAINT\_NAME

FROM USER\_CONSTRAINTS WHERE TABLE\_NAME = 'Employees'

AND CONSTRAINT\_TYPE = 'U') LOOP

EXECUTE IMMEDIATE REPLACE(REPLACE(

'ALTER TABLE #TABLE# DROP CONSTRAINT #CON#'

,'#TABLE#',r.TABLE\_NAME)

,'#CON#',r.CONSTRAINT\_NAME);

END LOOP;

END;

BEGIN

FOR r IN (

SELECT TABLE\_NAME, CONSTRAINT\_NAME

FROM USER\_CONSTRAINTS WHERE TABLE\_NAME = 'EMPLOYEES'

) LOOP

EXECUTE IMMEDIATE REPLACE(REPLACE(

'ALTER TABLE #TABLE# DROP CONSTRAINT #CON#'

,'#TABLE#',r.TABLE\_NAME

,'#CON#',r.CONSTRAINT\_NAME);

END LOOP;

END;

SELECT \* FROM USER\_CONSTRAINTS where table\_name = 'EMPLOYEES'

\*/

--Cars

drop table VehicleManufacturers;

create table VehicleManufacturers(

manufacturerId number(3) not null,

manufacturerName varchar2(100),

CONSTRAINT pk\_manufacturerId PRIMARY KEY (manufacturerId)

);

insert into VehicleManufacturers values(1, 'Honda');

insert into VehicleManufacturers values(2, 'Nissan');

insert into VehicleManufacturers values(3, 'Toyota');

insert into VehicleManufacturers values(4, 'Lexus');

insert into VehicleManufacturers values(5, 'Infiniti');

select \* from VehicleManufacturers;

--Services

drop table Services;

create table Services(

serviceId number(3) primary key,

serviceType char(20),

categoryName varchar2(50),

serviceName varchar2(100),

hours number(3)

);

insert into Services values(1, 'Repair', 'Engin Services', 'Belt Replacement',2);

insert into Services values(2, 'Repair', 'Engin Services', 'Engine Repair');

insert into Services values(3, 'Repair', 'Exhaust Services', 'Catalytic Converter Repair', 4);

/\*insert into Services values(4, 'Repair', 'Exhaust Services', 'Muffler Repair');

insert into Services values(5, 'Repair', 'Electrical Services', 'Alternator Repair');

insert into Services values(6, 'Repair', 'Electrical Services', 'Power Lock Repair');

insert into Services values(7, 'Repair', 'Transmission Services', 'Axle Repair');

insert into Services values(8, 'Repair', 'Transmission Services', 'Transmission Flush');

insert into Services values(9, 'Repair', 'Tire Services', 'Tire Balancing');

insert into Services values(10, 'Repair', 'Tire Services', 'Wheel Alignment');

insert into Services values(11, 'Repair', 'Health and Air Conditioner Services', 'Compressor Repair');

insert into Services values(12, 'Repair', 'Health and Air Conditioner Services', 'Compressor Repair');\*/

insert into Services values(4, 'Maintenance', null, 'Oil Changes1', 1);

insert into Services values(5, 'Maintenance', null, 'Brake Repair1', 1);

insert into Services values(6, 'Maintenance', null, 'Check Engine Light Diagnostics1', 2);

insert into Services values(7, 'Maintenance', null, 'Oil Changes2', 1);

insert into Services values(8, 'Maintenance', null, 'Brake Repair2', 1);

insert into Services values(9, 'Maintenance', null, 'Check Engine Light Diagnostics2', 3);

insert into Services values(10, 'Maintenance', null, 'Oil Changes3', 1);

insert into Services values(11, 'Maintenance', null, 'Brake Repair3', 4);

insert into Services values(12, 'Maintenance', null, 'Check Engine Light Diagnostics3', 3);

select \* from Services order by serviceId;

--Schedules

drop table ScheduleTypes;

create table ScheduleTypes(

scheduleType char(2) primary key

);

insert into ScheduleTypes values('A');

insert into ScheduleTypes values('B');

insert into ScheduleTypes values('C');

select \* from ScheduleTypes;

--Roles

drop table Roles;

create table Roles(

roleId number(2) primary key,

roleName char(20)

);

insert into Roles values(1, 'manager');

insert into Roles values(2, 'receptionist');

insert into Roles values(3, 'mechanic');

Select \* from Roles;

--EmployeeType

drop table EmployeeTypes;

create Table EmployeeTypes(

employeeType char(20) primary key

);

insert into EmployeeTypes values('Hourly');

insert into EmployeeTypes values('Contract');

select \* from EmployeeTypes;

--SalaryIndex

drop table SalaryIndex;

create table SalaryIndex (

salaryIndexId number(3) primary key,

employeeType char(20) not null,

rate number(3),

wage number(8,2),

constraint fk\_SalaryIndex\_EmployeeType foreign key (employeeType) references EmployeeTypes(employeeType)

);

insert into SalaryIndex values(1,'Hourly', 1, 30);

insert into SalaryIndex values(2, 'Hourly', 2, 40);

insert into SalaryIndex values(3, 'Hourly', 3, 50);

insert into SalaryIndex values(4, 'Contract', 1, 100000.00);

insert into SalaryIndex values(5, 'Contract', 2, 150000.12);

insert into SalaryIndex values(6, 'Contract', 3, 200000.55);

select \* from SalaryIndex;

--Service Center

drop table ServiceCenters;

create table ServiceCenters(

centerId number(5) primary key,

address varchar2(200),

phone char(15)

);

insert into ServiceCenters values(1, '1234 main street, Raleigh 27614', '123-123-1234');

insert into ServiceCenters values(2, '1234 second street, Durham 27587', '123-123-1234');

select \* from ServiceCenters;

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--Employees

drop table Vacations;

drop table Employees;

create table Employees(

employeeId number(9) primary key,

centerId number(5) not null,

salaryIndexId number(3),

userName char(20),

password char(20),

firstName char(100),

lastName char(100),

email char(20),

phone char(15),

roleId number(2) not null,

hireDate date not null,

endDate date,

constraint fk\_Employees\_ServiceCenters foreign key (centerId) references ServiceCenters(centerId) on delete cascade,

constraint fk\_Employees\_SalaryIndex foreign key (salaryIndexId) references SalaryIndex(salaryIndexId),

constraint fk\_Employees\_Roles foreign key (roleId) references Roles(roleId)

);

insert into Employees values(1, 1, 6, 'deanafranks', '1234567', 'Deana', 'Franks', 'dlfranks@ncsu.edu', '123-123-1234', 1, '01-MAY-81', null);

insert into Employees values(2, 1, 1, 'mechanicUser1', '1234567', 'Demo1', 'Mechanic', 'dlfranks@ncsu.edu', '123-123-1234', 3, '01-MAY-22', null);

insert into Employees values(3, 1, 4, 'receptionistUser', '1234567', 'Demo', 'Receptionist', 'dlfranks@ncsu.edu', '123-123-1234', 2, '01-MAY-2022', null);

insert into Employees values(4, 1, 2, 'mechanicUser2', '1234567', 'Demo2', 'Mechanic1', 'dlfranks@ncsu.edu', '123-123-1234', 3, '01-MAY-20', null);

insert into Employees values(5, 1, 3, 'mechanicUser3', '1234567', 'Demo3', 'Mechanic2', 'dlfranks@ncsu.edu', '123-123-1234', 3, '01-MAY-19', null);

insert into Employees values(6, 1, 1, 'mechanicUser4', '1234567', 'Demo4', 'Mechanic3', 'dlfranks@ncsu.edu', '123-123-1234', 3, '01-MAY-21', null);

insert into Employees values(7, 1, 2, 'mechanicUser5', '1234567', 'Demo5', 'Mechanic4', 'dlfranks@ncsu.edu', '123-123-1234', 3, '01-MAY-10', null);

insert into Employees values(8, 1, 1, 'mechanicUser6', '1234567', 'Demo6', 'Mechanic5', 'dlfranks@ncsu.edu', '123-123-1234', 3, '01-MAY-15', null);

select \* from Employees;

--Vacations

create table Vacations(

vacationId number(12),

employeeId number(9),

startDate date,

endDate date,

constraint fk\_Vacations\_Employees foreign key (employeeId) references Employees(employeeId) On delete cascade

);

insert into Vacations values(1, 2, to\_date('2022/09/23:8:00:00AM', 'yyyy/mm/dd:hh:mi:ssam'), to\_date('2022/09/23:12:00:00PM', 'yyyy/mm/dd:hh:mi:ssam'));

insert into Vacations values(2, 4, to\_date('2022/09/24:1:00:00PM', 'yyyy/mm/dd:hh:mi:ssam'), to\_date('2022/09/25:6:00:00PM', 'yyyy/mm/dd:hh:mi:ssam'));

select vacationId, employeeId, to\_char(startDate, 'yyyy/mm/dd:hh:mi:ssam'), to\_char(endDate, 'yyyy/mm/dd:hh:mi:ssam') from Vacations;

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--BusinessHours to\_date('2022/09/23:12:00:00PM', 'yyyy/mm/dd:hh:mi:ssam'));

drop table BusinessHours;

create table BusinessHours(

businessHoursId number(5) primary key,

centerId number(5),

day char(10),

openTime char(8),

closeTime char(8),

constraint fk\_BusinessHours\_ServiceCenter foreign key (centerId) references ServiceCenters(centerId)

);

insert into BusinessHours values(1, 1, 'Monday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(2, 1, 'Tuesday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(3, 1, 'Wednesday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(4, 1, 'Thursday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(5, 1, 'Friday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(6, 1, 'Saturday', '08:00 AM', '01:00 PM');

insert into BusinessHours values(7, 2, 'Monday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(8, 2, 'Tuesday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(9, 2, 'Wednesday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(10, 2, 'Thursday', '08:00 AM', '07:30 PM');

insert into BusinessHours values(11, 2, 'Friday', '08:00 AM', '07:30 PM');

select \* from BusinessHours;

--ServicesPricedByCar

drop table ServicePricedByManufacturer;

create table ServicePricedByManufacturer(

centerId number(5),

manufacturerId number(3),

serviceId number(3),

price number (7, 2),

constraint pk\_centerId\_VehicleManufacturerId\_serviceId primary key (centerId, manufacturerId, serviceId),

constraint fk\_SevicePricedByCar\_ServiceCenters foreign key (centerId) references ServiceCenters(centerId),

constraint fk\_SevicePricedByCar\_VehicleManufacturers foreign key(manufacturerId) references VehicleManufacturers(manufacturerId),

constraint fk\_SevicePricedByCar\_Services foreign key (serviceId) references Services(serviceId)

);

insert into ServicePricedByManufacturer values(1, 1, 1, 30.00);

insert into ServicePricedByManufacturer values(1, 1, 2, 40.00);

insert into ServicePricedByManufacturer values(1, 1, 3, 30.00);

insert into ServicePricedByManufacturer values(1, 1, 4, 40.00);

insert into ServicePricedByManufacturer values(1, 1, 5, 40.00);

insert into ServicePricedByManufacturer values(1, 1, 6, 50.00);

insert into ServicePricedByManufacturer values(1, 1, 7, 50.00);

insert into ServicePricedByManufacturer values(1, 1, 8, 50.00);

insert into ServicePricedByManufacturer values(1, 1, 9, 45.55);

insert into ServicePricedByManufacturer values(1, 1, 10, 20.50);

insert into ServicePricedByManufacturer values(1, 1, 11, 18.99);

insert into ServicePricedByManufacturer values(1, 1, 12, 30.00);

insert into ServicePricedByManufacturer values(1, 2, 1, 90.00);

insert into ServicePricedByManufacturer values(1, 2, 2, 30.00);

insert into ServicePricedByManufacturer values(1, 2, 3, 55.00);

insert into ServicePricedByManufacturer values(1, 2, 4, 60.00);

insert into ServicePricedByManufacturer values(1, 2, 5, 40.00);

insert into ServicePricedByManufacturer values(1, 2, 6, 33.33);

insert into ServicePricedByManufacturer values(1, 2, 7, 23.55);

insert into ServicePricedByManufacturer values(1, 2, 8, 35.00);

insert into ServicePricedByManufacturer values(1, 2, 9, 40.00);

insert into ServicePricedByManufacturer values(1, 2, 10, 40.00);

insert into ServicePricedByManufacturer values(1, 2, 11, 50.00);

insert into ServicePricedByManufacturer values(1, 2, 12, 50.00);

select \* from ServicePricedByManufacturer;

--Schedules

drop table Schedules;

create table Schedules(

scheduleId number(5) primary key,

scheduleType char(2),

centerId number(5),

price number(7,2),

constraint fk\_Schedules\_ScheduleTypes foreign key (scheduleType) references ScheduleTypes(scheduleType),

constraint fk\_Schedules\_ServiceCenters foreign key (centerId) references ServiceCenters(centerId)

);

insert into Schedules values(1, 'A',1, 50.00);

insert into Schedules values(2, 'B',1, 65.00);

insert into Schedules values(3, 'C',1, 75.00);

select \* from Schedules;

-- ScheduleServices

create table ScheduleServices(

scheduleServiceId number(10) primary key,

scheduleId number(5),

serviceId number(3),

constraint fk\_ScheduleServices\_Services foreign key (serviceId) references Services(serviceId),

constraint fk\_ScheduleServices\_Schedules foreign key (scheduleId) references Schedules(scheduleId)

);

insert into ScheduleServices values (1, 1, 4);

insert into ScheduleServices values (2, 1, 5);

insert into ScheduleServices values (3, 1, 6);

insert into ScheduleServices values (4, 2, 7);

insert into ScheduleServices values (5, 2, 8);

insert into ScheduleServices values (6, 3, 9);

insert into ScheduleServices values (7, 3, 10);

select \* from ScheduleServices;

select \* from ScheduleServices ss

join Services s on s.serviceId = ss.serviceId

join Schedules sch on sch.scheduleId = ss.scheduleId

join ScheduleTypes st on st.scheduleType = sch.scheduleType

join ServiceCenters sc on sc.centerId = sch.centerId;

--Customers

drop table Customers;

create table Customers(

customerId number(10) primary key,

centerId number(5) not null,

firstName char(20),

lastName char(20),

address varchar(100),

status char(1),

active char(1),

constraint fk\_Customer\_ServiceCenter foreign key(centerId) references ServiceCenters(centerId)

);

insert into Customers values(1, 1, 'CustomerFirstName1', 'CustomerLastName1', '1234 CustomerAddress NC 1234 USA', 'Y', 'Y');

insert into Customers values(2, 1, 'CustomerFirstName2', 'CustomerLastName2', '567 CustomerAddress2 NC 5678 Canada', 'Y', 'Y');

select \* from Customers;

--CustomerVehicles

create table CustomerVehicles(

vehicleId char(8) primary key,

customerId number(10),

manufacturerId number(3),

mileage number(8),

year char (4),

constraint fk\_CustomerVehicles\_Customers foreign key (customerId) references Customers(customerid),

constraint fk\_customerVehicles\_Cars foreign key (manufacturerId) references VehicleManufacturers(manufacturerId)

);

insert into CustomerVehicles values('ABCD1234', 1, 1, 10000, '2020');

insert into CustomerVehicles values('BCDE1235', 2, 2, 120000, '1970');

insert into CustomerVehicles values('CDEF1234', 1, 3, 50000, '2002');

select \* from CustomerVehicles

--ServiceEvent to\_date('2022/09/23:12:00:00PM', 'yyyy/mm/dd:hh:mi:ssam'));

create table ServiceEvents(

serviceEventId number(10) primary key,

vehicleId char(8),

mechanicId number(9),

startDate date not null,

endDate date,

totalPrice number(7, 2),

status char (1),

constraint fk\_ServiceEvents\_CustomerVehicles foreign key (vehicleId) references CustomerVehicles(vehicleId ),

constraint fk\_ServiceEvents\_Employees foreign key (mechanicId) references Employees(employeeId)

);

insert into ServiceEvents values(1, 'ABCD1234', 1, to\_date('2022/09/25:12:00:00PM', 'yyyy/mm/dd:hh:mi:ssam'), null, null, '0' );

select \* from ServiceEvents;

--EventOnServices

create table EventOnServices(

eventOnServiceId number(10),

eventId number(10),

serviceType char(20),

serviceCategory varchar2(50),

serviceName varchar2(100),

scheduleType char(2),

done char(1),

constraint fk\_ServiceEvents\_EventOnServices foreign key(eventId) references ServiceEvents(serviceEventId)

);

insert into EventOnServices values(1, 1, 'Maintenance ', null, 'Oil Changes1', 'A', '0');

insert into EventOnServices values(2, 1, 'Maintenance ', null, 'Brake Repair1', 'A', '0');

insert into EventOnServices values(3, 1, 'Maintenance ', null, 'Check Engine Light Diagnostics1', 'A', '0');

insert into EventOnServices values(4, 1, 'Repair', 'Engin Services', 'Belt Replacement', null, '0');

select \* from EventOnServices;

select \* from Services;

--Invoices

create table Invoices(

invoiceId number(10),

eventId number(10),

createDate date not null,

totalPrice number(7, 2),

paid number(7, 2),

balance number(7, 2),

constraint fk\_Invoices\_ServiceEvents foreign key (eventId) references ServiceEvents(eventId)

);