/\*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(

vehicleManfId number(3),

manufacturerName char(50),

CONSTRAINT pk\_vehicleManfId PRIMARY KEY (vehicleManfId)

);

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,

name char(50),

laborHours number(3)

);

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

insert into Services values(2, 'Engine Repair', 3);

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

insert into Services values(4, 'Muffler Repair', 10);

insert into Services values(5, 'Alternator Repair', 6);

insert into Services values(6, 'Power Lock Repair',7);

insert into Services values(7, 'Axle Repair',4);

insert into Services values(8, 'Transmission Flush',6);

insert into Services values(9, 'Tire Balancing',5);

insert into Services values(10, 'Wheel Alignment',6);

insert into Services values(11, 'Compressor Repair',12);

insert into Services values(12, 'Compressor Repair',20);

insert into Services values(13, 'Oil Changes1', 1);

insert into Services values(14, 'Brake Repair1', 1);

insert into Services values(15, 'Check Engine Light Diagnostics1', 2);

insert into Services values(16, 'Oil Changes2', 1);

insert into Services values(17, 'Brake Repair2', 1);

insert into Services values(18, 'Check Engine Light Diagnostics2', 3);

insert into Services values(19, 'Oil Changes3', 1);

insert into Services values(20, 'Brake Repair3', 4);

insert into Services values(21, 'Check Engine Light Diagnostics3', 3);

select \* from Services order by serviceId;

--RepairServices

drop table RepairServices;

create table RepairServices(

serviceId number(3) primary key,

serviceType char(50),

category char(50),

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

);

insert into RepairServices values(1, 'Repair', 'Engin Services');

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

insert into RepairServices values(3, 'Repair', 'Exhaust Services');

insert into RepairServices values(4, 'Repair', 'Exhaust Services');

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

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

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

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

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

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

insert into RepairServices values(11, 'Repair', 'Conditioner Services');

insert into RepairServices values(12, 'Repair', 'Conditioner Services');

--MaintenanceServices

drop table MaintenanceServices;

create table MaintenanceServices(

serviceId number(3) primary key,

serviceType char(50),

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

);

insert into MaintenanceServices values(13, 'Maintenance');

insert into MaintenanceServices values(14, 'Maintenance');

insert into MaintenanceServices values(15, 'Maintenance');

insert into MaintenanceServices values(16, 'Maintenance');

insert into MaintenanceServices values(17, 'Maintenance');

insert into MaintenanceServices values(18, 'Maintenance');

insert into MaintenanceServices values(19, 'Maintenance');

insert into MaintenanceServices values(20, 'Maintenance');

insert into MaintenanceServices values(21, 'Maintenance');

select \* from RepairServices m, Services s

where m.serviceId = s.serviceId;

select \* from MaintenanceServices m, Services s

where m.serviceId = s.serviceId;

--Schedules

drop table ScheduleTypes;

create table ScheduleTypes(

scheduleType char(1) 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(

roleType char(20) primary key

);

insert into Roles values('manager');

insert into Roles values('receptionist');

insert into Roles values('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;

\*/

--BusinessHours

drop table BusinessHours;

create table BusinessHours(

businessDay char(10) primary key,

openTime char(8),

closeTime char(8)

);

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

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

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

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

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

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

select \* from BusinessHours;

--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;

--ServiceCenterHours

drop table ServiceCenterHours;

create table ServiceCenterHours(

centerId number(5),

businessDay char(10),

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

constraint fk\_ServiceCenterHours\_BusinessHours foreign key (businessDay) references BusinessHours(businessDay)

);

insert into ServiceCenterHours values(1, 'Monday');

insert into ServiceCenterHours values(1, 'Tuesday');

insert into ServiceCenterHours values(1, 'Wednesday');

insert into ServiceCenterHours values(1, 'Thursday');

insert into ServiceCenterHours values(1, 'Friday');

insert into ServiceCenterHours values(1, 'Saturday');

insert into ServiceCenterHours values(2, 'Monday');

insert into ServiceCenterHours values(2, 'Tuesday');

insert into ServiceCenterHours values(2, 'Wednesday');

insert into ServiceCenterHours values(2, 'Thursday');

insert into ServiceCenterHours values(2, 'Friday');

insert into ServiceCenterHours values(2, 'Saturday');

select \* from ServiceCenterHours s, ServiceCenters c, BusinessHours h

where s.centerId=c.centerId and s.businessDay = h.businessDay;

-------------------------------------------------------------------------------------------------------

--HourlyRates

/\*drop table HourlyRates;

drop table HourlyRate;

create table HourlyRates(

rate number(2),

wage number(10, 2)

);

insert into HourlyRates values(1, 10.50);

insert into HourlyRates values(2, 20.00);

insert into HourlyRates values(3, 40.55);

insert into HourlyRates values(4, 50.00);

select \* from HourlyRates;

\*/

--Employees

drop table Vacations;

drop table Employees;

create table Employees(

employeeId number(9) primary key,

centerId number(5) not null,

roletype char(20) not null,

userName char(20),

password char(20),

firstName char(100),

lastName char(100),

email char(50),

phone char(15),

hireDate date not null,

endDate date,

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

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

);

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

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

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

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

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

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

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

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

select \* from Employees;

--ContractEmployees

drop table ContractEmployees;

create table ContractEmployees(

employeeId number(9) primary key,

annualSalary number(10, 2),

constraint fk\_ContractEmployees\_Employees foreign key(employeeId) references Employees(employeeId)

);

insert into ContractEmployees values(1, 100000.55);

insert into ContractEmployees values(2, 200000.55);

insert into ContractEmployees values(3, 300000.55);

select \* from Employees e, ContractEmployees c

where e.employeeId = c.employeeId;

--HourlyEmployees

drop table HourlyEmployees;

create table HourlyEmployees(

employeeId number(9) primary key,

wage number(10, 2),

constraint fk\_HourlyEmployees\_Employees foreign key(employeeId) references Employees(employeeId)

--constraint fk\_HourlyEmployees\_HourlyRates foreign key(rate) references HourlyRates(rate)

);

insert into HourlyEmployees values (4, 10.00);

insert into HourlyEmployees values (5, 25.66);

insert into HourlyEmployees values (6, 33.75);

insert into HourlyEmployees values (7, 45.00);

insert into HourlyEmployees values (8, 100.00);

select \* from Employees e, HourlyEmployees c

where e.employeeId = c.employeeId;

--Vacations

drop table Vacations;

create table Vacations(

vacationId number(12) primary key,

employeeId number(9) not null,

fromDate date,

toDate 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:miam'), to\_date('2022/09/23:12:00:00PM', 'yyyy/mm/dd:hh:mi:am'));

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'));

insert into Vacations values(3, 5, to\_date('2022/09/23:8:00AM', 'yyyy/mm/dd:hh:miam'), to\_date('2022/09/23:12:00PM', 'yyyy/mm/dd:hh:miam'));

insert into Vacations values(4, 6, to\_date('2022/09/23:8:30AM', 'yyyy/mm/dd:hh:miam'), to\_date('2022/09/23:12:40PM', 'yyyy/mm/dd:hh:miam'));

select vacationId, employeeId, to\_char(fromDate, 'yyyy/mm/dd:hh:miam'), to\_char(toDate, 'yyyy/mm/dd:hh:miam') from Vacations;

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

--ServicesPricedByCar

drop table ServicePricedByManf;

create table ServicePricedByManf(

servicePriced number(10) primary key,

centerId number(5),

vehicleManfId number(3),

serviceId number(3),

price number (7, 2),

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

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

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

);

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

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

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

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

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

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

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

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

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

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

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

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

insert into ServicePricedByManf values(13, 1, 2, 1, 90.00);

insert into ServicePricedByManf values(14, 1, 2, 2, 30.00);

insert into ServicePricedByManf values(15, 1, 2, 3, 55.00);

insert into ServicePricedByManf values(16, 1, 2, 4, 60.00);

insert into ServicePricedByManf values(17, 1, 2, 5, 40.00);

insert into ServicePricedByManf values(18, 1, 2, 6, 33.33);

insert into ServicePricedByManf values(19, 1, 2, 7, 23.55);

insert into ServicePricedByManf values(20, 1, 2, 8, 35.00);

insert into ServicePricedByManf values(21, 1, 2, 9, 40.00);

select \* from ServicePricedByManf;

--Schedules

drop table Schedules;

create table Schedules(

scheduleId number(5),

scheduleType char(1),

centerId number(5),

price number(10,2),

constraint pk\_Schedules primary key (scheduleId),

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);

insert into Schedules values(4,'A',2, 60.00);

insert into Schedules values(5,'B',2, 75.00);

insert into Schedules values(6,'C',2, 85.00);

-- ScheduleServices

drop table ScheduleServices;

create table ScheduleServices(

scheduleId number(5),

serviceId number(3),

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

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

);

insert into ScheduleServices values (1, 13);

insert into ScheduleServices values (1, 14);

insert into ScheduleServices values (1, 15);

insert into ScheduleServices values (2, 16);

insert into ScheduleServices values (2, 17);

insert into ScheduleServices values (3, 18);

insert into ScheduleServices values (3, 19);

insert into ScheduleServices values (4, 13);

insert into ScheduleServices values (4, 14);

insert into ScheduleServices values (4, 15);

insert into ScheduleServices values (5, 16);

insert into ScheduleServices values (5, 17);

insert into ScheduleServices values (6, 18);

insert into ScheduleServices values (6, 19);

select \* from ScheduleServices;

select sd.centerId, sd.scheduleType, s.name, sd.price, s.name from ScheduleServices ss, Schedules sd, Services s

where ss.scheduleId = sd.scheduleId and ss.serviceId = s.serviceid;

--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;

select \* from VehicleManufacturers

--CustomerVehicles

create table CustomerVehicles(

vin char(8) primary key,

customerId number(10),

vehicleManfId number(3),

mileage number(8),

year char (4),

class char(1),

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

constraint fk\_CustomerVehicles\_VehicleManufacturers foreign key (vehicleManfId) references VehicleManufacturers(vehicleManfId)

);

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

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

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

select \* from CustomerVehicles

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

create table ServiceEvents(

eventId number(10) primary key,

vin char(8),

mechanicId number(9),

startDate date not null,

endDate date,

totalPrice number(7, 2),

totalPaid number(7, 2),

completed char (1),

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

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

);

insert into ServiceEvents values(1, 'ABCD1234', 4, to\_date('2022/09/25:12:00:00PM', 'yyyy/mm/dd:hh:mi:ssam'), null, null, null, '0' );

select \* from ServiceEvents;

select \* from HourlyEmployees;

--Invoices

create table Invoices(

invoiceId number(10),

eventId number(10),

serviceDate date not null,

totalPrice number(7, 2),

paid number(7, 2),

balance number(7, 2),

status char(1)

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

);