/\* Assignment 1 Cheetah Deliveries Database\_ST10163788 \*/

/\*Question 2\*/

-- Drop tables

DROP TABLE Billing CASCADE CONSTRAINTS;

DROP TABLE Staff CASCADE CONSTRAINTS;

DROP TABLE Customer CASCADE CONSTRAINTS;

DROP TABLE Delivery\_items CASCADE CONSTRAINTS;

DROP TABLE Driver CASCADE CONSTRAINTS;

DROP TABLE Vehicle CASCADE CONSTRAINTS;

DROP TABLE Driver\_deliveries CASCADE CONSTRAINTS;

-- Create tables

CREATE TABLE Customer (

customerID NUMBER PRIMARY KEY,

first\_name VARCHAR2(50),

surname VARCHAR2(50),

address VARCHAR2(100),

phone\_num VARCHAR2(15),

email VARCHAR2(50)

);

CREATE TABLE Staff (

staffID NUMBER PRIMARY KEY,

first\_name VARCHAR2(50),

surname VARCHAR2(50),

position VARCHAR2(50),

phone\_num VARCHAR2(15),

address VARCHAR2(100),

email VARCHAR2(50)

);

CREATE TABLE Billing (

billID NUMBER PRIMARY KEY,

customerID NUMBER,

staffID NUMBER,

bill\_date DATE,

FOREIGN KEY (customerID) REFERENCES Customer(customerID),

FOREIGN KEY (staffID) REFERENCES Staff(staffID)

);

create table Delivery\_items (

delivery\_item\_id number primary key,

description varchar2(255),

staffID number,

foreign key (staffID) references Staff(staffID)

);

create table Driver (

driverID number primary key,

first\_name varchar2(50),

surname varchar2(50),

driver\_code varchar2(10),

phone\_num varchar2(15),

address varchar2(100)

);

create table Vehicle (

vehicleID varchar2(20) primary key,

vehicle\_type varchar2(50),

mileage number,

colour varchar2(20),

manufacturer varchar2(50)

);

create table Driver\_deliveries (

driver\_delivery\_id number primary key,

vehicleID varchar2(20),

driverID number,

delivery\_item\_id number,

foreign key (vehicleID) references Vehicle(vehicleID),

foreign key (driverID) references Driver(driverID),

foreign key (delivery\_item\_id) references delivery\_items(delivery\_item\_id)

);

/\* Question 3 \*/

/\* Creating User John \*/

Create user C##John identified by Johnch2024;

/\* grant insert any table privilege \*/

Grant insert any table to C##John;

/\* Creating User Hannah \*/

Create user C##Hannah identified by Hannahch2024;

/\* grant insert any table privilege \*/

Grant insert any table to C##Hannah;

/\*Data Insertion\*/

-- Insert multiple rows into Customer table using INSERT ALL

Insert all

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11011, 'Bob', 'Smith', '18 Water rd', '0877277521', 'bobs@isat.com')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11012, 'Sam', 'Hendricks', '22 Water rd', '0863257857', 'shen@mcom.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11013, 'Larry', 'Clark', '101 Summer lane', '0834567891', 'larc@mcom.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11014, 'Jeff', 'Jones', '55 Mountain way', '0612547895', 'jj@isat.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11015, 'Andre', 'Kerk', '5 Main rd', '0827238521', 'akerk@mcal.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11016, 'Wayne', 'Smith', '13 Water rd', '0877277522', 'ws@isat.com')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11017, 'John', 'Hendricks', '29 Water rd', '0863257851', 'jhen@mcom.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11018, 'Sally', 'Clark', '111 Summer lane', '0834567892', 'sallyc@mcom.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11019, 'Bridget', 'Bitterhour', '125 Mountain way', '0612547896', 'bb@isat.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11111, 'Nicole', 'Kerk', '175 Main rd', '0827238529', 'nk@mcal.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11112, 'Catherine', 'Smith', '19 Water rd', '0877277523', 'cath@isat.com')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11113, 'Mel', 'Hendricks', '5 Water rd', '0863257852', 'melh@mcom.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11114, 'Lucy', 'Du Plessis', '221 Summer lane', '0834567892', 'ldup@mcom.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11116, 'Josh', 'Maverick', '155 Mountain way', '0612547897', 'joshm@isat.co.za')

into Customer (customerID, first\_name, surname, address, phone\_num, email)

values (11117, 'Stuart', 'Jones', '35 Main rd', '0827238521', 'sjones@mcal.co.za')

Select \* from dual;

-- Insert multiple rows into Staff table using INSERT ALL

Insert all

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51011, 'Sally', 'Du Toit', 'Logistics', '0825698547', '18 Main rd', 'sdut@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51012, 'Mark', 'Wright', 'CRM', '0836984178', '12 Cape Way', 'mwright@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51013, 'Harry', 'Sheen', 'Logistics', '0725648965', '15 Water Street', 'hsheen@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51014, 'Jabu', 'Xolani', 'Logistics', '0823116598', '18 White Lane', 'jxo@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51015, 'Roberto', 'Henry', 'Packaging', '0783521451', '55 Cape Street', 'rhenry@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51016, 'Pat', 'Durant', 'Logistics', '0825698542', '1 Main rd', 'pd@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51017, 'Steve', 'Maritz', 'CRM', '0836984173', '2 Cape Way', 'sm@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51018, 'Maxwell', 'Dube', 'Logistics', '0725648964', '5 Water Street', 'max@isat.com')

into Staff (staffID, first\_name, surname, position, phone\_num, address, email)

values (51111, 'Bob', 'Truth', 'Packaging', '0783521456', '35 Cape Street', 'btruth@isat.com')

Select \* from dual;

-- Insert multiple rows into Billing table using INSERT ALL

Insert all

into Billing (billID, customerID, staffID, bill\_date) values (800, 11011, 51011, date '2022-09-06')

into Billing (billID, customerID, staffID, bill\_date) values (801, 11012, 51013, date '2022-09-07')

into Billing (billID, customerID, staffID, bill\_date) values (802, 11014, 51015, date '2022-11-10')

into Billing (billID, customerID, staffID, bill\_date) values (803, 11015, 51012, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (804, 11013, 51014, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (805, 11111, 51011, date '2022-09-06')

into Billing (billID, customerID, staffID, bill\_date) values (806, 11012, 51013, date '2022-09-07')

into Billing (billID, customerID, staffID, bill\_date) values (807, 11014, 51015, date '2022-11-10')

into Billing (billID, customerID, staffID, bill\_date) values (808, 11015, 51012, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (809, 11113, 51018, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (810, 11011, 51011, date '2022-09-06')

into Billing (billID, customerID, staffID, bill\_date) values (811, 11012, 51013, date '2022-09-07')

into Billing (billID, customerID, staffID, bill\_date) values (812, 11014, 51016, date '2022-11-10')

into Billing (billID, customerID, staffID, bill\_date) values (813, 11117, 51012, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (814, 11013, 51014, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (815, 11012, 51111, date '2022-09-06')

into Billing (billID, customerID, staffID, bill\_date) values (816, 11012, 51019, date '2022-09-07')

into Billing (billID, customerID, staffID, bill\_date) values (817, 11014, 51015, date '2022-11-10')

into Billing (billID, customerID, staffID, bill\_date) values (818, 11112, 51012, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (819, 11013, 51014, date '2022-12-09')

into Billing (billID, customerID, staffID, bill\_date) values (820, 11116, 51019, date '2022-12-09')

Select \* from dual;

select \* from Billing;

-- Insert multiple rows into Delivery\_items table using INSERT ALL

Insert all

into Delivery\_items (delivery\_item\_id, description, staffID) values (71011, 'House relocation', 51011)

into Delivery\_items (delivery\_item\_id, description, staffID) values (71012, 'Delivery of specialized consignments', 51017)

into Delivery\_items (delivery\_item\_id, description, staffID) values (71013, 'Delivery of specialized consignments', 51015)

into Delivery\_items (delivery\_item\_id, description, staffID) values (71014, 'Office relocation', 51012)

into Delivery\_items (delivery\_item\_id, description, staffID) values (71015, 'Delivery of specialized consignments', 51014)

Select \* from dual;

-- Insert multiple rows into Driver table using INSERT ALL

Insert all

into Driver (driverID, first\_name, surname, driver\_code, phone\_num, address)

values (81011, 'Buthelezi', 'Marshall', 'C1', '0725698547', '18 Leopard creek')

into Driver (driverID, first\_name, surname, driver\_code, phone\_num, address)

values (81012, 'Tina', 'Mtati', 'C', '0636984178', '12 Cape rd')

into Driver (driverID, first\_name, surname, driver\_code, phone\_num, address)

values (81013, 'Jono', 'Mvuyisi', 'EC1', '0725648965', '15 Circle lane')

into Driver (driverID, first\_name, surname, driver\_code, phone\_num, address)

values (81014, 'Richard', 'Smith', 'C1', '0623116598', '18 Beach rd')

into Driver (driverID, first\_name, surname, driver\_code, phone\_num, address)

values (81015, 'Brett', 'Smith', 'EB', '0883521457', '55 Summer lane')

Select \* from dual;

Select \* from Driver;

-- Insert multiple rows into Vehicle table using INSERT ALL

Insert all

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA55858541', 'Cutaway van chassis', 115352, 'Red', 'MAN')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA51858542', 'Flatbed truck', 315856, 'Blue', 'ISUZU')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA35858543', 'Medium Standard Truck', 789587, 'Silver', 'MAN')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA15851545', 'Flatbed truck', 555050, 'White', 'TATA')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA35868540', 'Cutaway van chassis', 79058, 'White', 'ISUZU')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA65858541', 'Cutaway van chassis', 215352, 'Red', 'MAN')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA61858542', 'Flatbed truck', 215856, 'Blue', 'ISUZU')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA65858543', 'Medium Standard Truck', 889587, 'Silver', 'MERC')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA65851545', 'Flatbed truck', 155050, 'White', 'MAN')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA65868540', 'Cutaway van chassis', 19058, 'White', 'ISUZU')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA75858541', 'Cutaway van chassis', 315352, 'Red', 'MAN')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA71858542', 'Flatbed truck', 115856, 'Blue', 'ISUZU')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA75858543', 'Medium Standard Truck', 989587, 'Silver', 'MAN')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA17851545', 'Flatbed truck', 755050, 'White', 'TATA')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA75868540', 'Cutaway van chassis', 29058, 'White', 'ISUZU')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA85858541', 'Cutaway van chassis', 515352, 'Red', 'MERC')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA81858542', 'Flatbed truck', 715856, 'Blue', 'ISUZU')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA85858543', 'Medium Standard Truck', 789587, 'Silver', 'MAN')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA85851545', 'Flatbed truck', 955050, 'White', 'TATA')

into Vehicle (vehicleID, vehicle\_type, mileage, colour, manufacturer)

values ('1ZA85868540', 'Cutaway van chassis', 39058, 'White', 'MERC')

Select \* from dual;

-- Insert multiple rows into Driver\_deliveries table using INSERT ALL

Insert all

into Driver\_deliveries (driver\_delivery\_id, vehicleID, driverID, delivery\_item\_id) values (91011, '1ZA55858541', 81011, 71011)

into Driver\_deliveries (driver\_delivery\_id, vehicleID, driverID, delivery\_item\_id) values (91012, '1ZA35858543', 81012, 71013)

into Driver\_deliveries (driver\_delivery\_id, vehicleID, driverID, delivery\_item\_id) values (91013, '1ZA15851545', 81011, 71015)

into Driver\_deliveries (driver\_delivery\_id, vehicleID, driverID, delivery\_item\_id) values (91014, '1ZA35868540', 81013, 71015)

into Driver\_deliveries (driver\_delivery\_id, vehicleID, driverID, delivery\_item\_id) values (91015, '1ZA15851545', 81014, 71012)

Select \* from dual;

/\*Question 4.1\*/

SELECT

Driver.first\_name || ', ' || Driver.surname AS driver,

Driver.driver\_code AS code,

Vehicle.vehicleID AS vin\_number,

Vehicle.mileage AS mileage

FROM

Driver

JOIN

Driver\_deliveries ON Driver.driverID = Driver\_deliveries.driverID

JOIN

Vehicle ON Driver\_deliveries.vehicleID = Vehicle.vehicleID

WHERE

Vehicle.mileage < 80000;