University of British Columbia, Vancouver
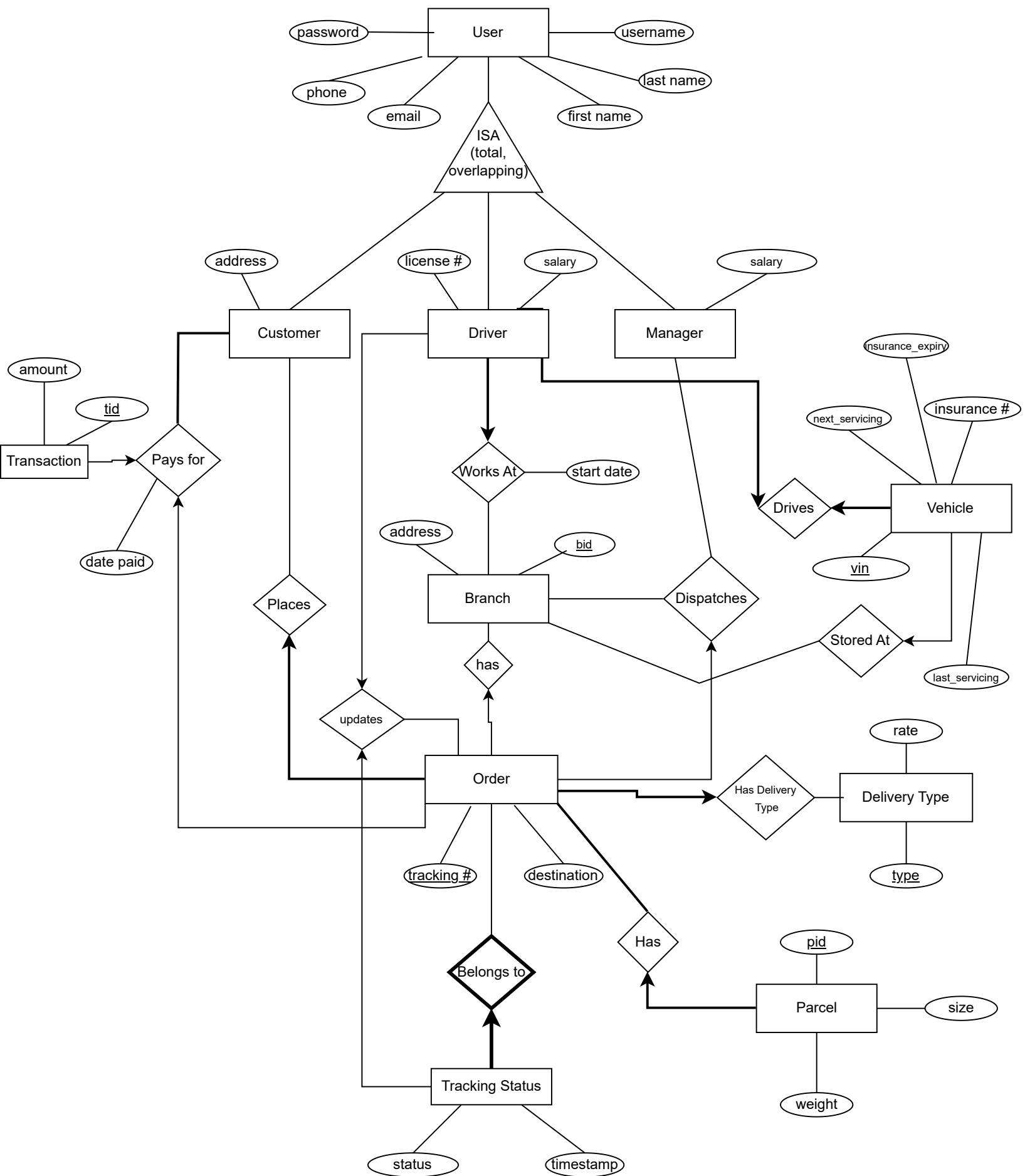Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 2

Date: March 1, 2023

Group Number: 98

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Matthew Ma	60034139	a2w0b	matthew.ma@alumni.ubc.ca
Colleen Rideout	38298097	colleenx	colleen.rideout@gmail.com
Seoyoung Kwon	63623466	seoykwon	kwonseoy@gmail.com

By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Entity-Relationship Diagram

User
- password
- username
- phone
- email
- first name
- last name

ISA (total, overlapping)

Customer
- address

Driver
- license #

Manager
- salary

Transaction
- amount
- tid

Pays for
- date paid

Places

Works At
- start date

Branch
- address
- bid

Dispatches

Drives

Vehicle
- insurance_expiry
- next_servicing
- insurance #
- vin
- last_servicing

Stored At

has

updates

Order
- tracking #
- destination

Has Delivery Type

Delivery Type
- rate
- type

Belongs to

Has

Parcel
- pid
- size
- weight

Tracking Status
- status
- timestamp

Changes to original ER diagram:

1. The attribute uid was removed from User because it is redundant (we are using username as the primary key instead, since username is unique to each user)
2. The ISA relationship is updated to be total, overlapping (e.g. Managers and Drivers can also be Customers at the same time)
3. Added insurance_expiry, last_servicing, next_servicing, and vin attributes to the Vehicle entity for normalization deliverable.
4. Date_paid was moved from the Transaction entity to the Pays_For relationship.
5. Most descriptive attributes in Tracking_Status were consolidated into one attribute "status"
6. Changed participation of Customer in Pays_For relationship so a customer entity pays for 1+ orders.
7. Changed participation of Order in Updates so an Order entity can be associated with more than one Update relationship (ie. so it can be updated multiple times by a driver)
8. Changed participation of Delivery_Type entity in Has_Delivery_Type relationship so a particular Delivery_Type entity can be associated with many orders
9. Changed participation of Branch entity in Dispatches relationship so a particular branch can be associated with multiple dispatched orders
10. Tracking Status now has an attribute called status, which can be specified as "in transit", "delivered", or "picked up"
11. Changed name of relationship between customer and order from "Has" to "Places" to be more descriptive
12. Vin will now be the primary key of Vehicle entity, since the previous primary key could be associated with multiple vehicles

Project Summary:

Our project is a database application that a shipping company would use to manage its deliveries. The system will model key aspects of a parcel delivery system, including information on different users involved in the delivery process (e.g. drivers, customers, managers) and details about orders such as tracking updates and parcel information.

Tables:

Table Definition	Keys & Constraints
Transaction(tid: string, amount: float) Type: Entity	Primary key: tid, candidate keys: none, foreign keys:none
Pays_For(tid: string, username: string, tracking_number: string, date_paid: date)	Primary Key: tid Candidate Key: tracking_number Foreign Key: tracking_number References

Type: Relationship	Order, username References User, tid references Transaction Constraints: tid cannot be null, tracking_number cannot be null
Order(tracking_number: string, destination: string) Type: Entity	Primary Key: tracking_number Candidate Key: none Foreign Key: none
Order_Status(status: string, timestamp: datetime, tracking_number: string) Type: Weak Entity Relationship **Note: merged Belongs_To with Tracking_Status**	Primary Key: tracking_number, status Candidate Key: none Foreign Key: tracking_number References Order Constraints: tracking_number cannot be null
Places(username: string, tracking_number: string) Type: Relationship	Primary key: tracking_number Candidate key: none Foreign Key: tracking_number references Order, username references Customer Constraints: username cannot be null
Has_Delivery_Type(type: string, tracking_number: string) Type: Relationship	Primary Key: tracking_number Candidate Key: none Foreign Keys: tracking_number references Order, type references Delivery_Type Constraints: type cannot be null
Delivery_Type(type: string, rate: real) Type: Entity	Primary Key: type Candidate Key: rate Foreign Keys: none
Dispatches(tracking_number: string, bid: string, username: string) Type: Relationship	Primary Key: tracking_number Candidate Key: none Foreign Key: tracking_number References Order, username References Manager, bid references Branch
Drives(vin: string, username:string) Type: Relationship	Primary Key: vin Candidate Key: username Foreign Key: vin references Vehicle, username references Driver Constraints: username not null, vin cannot be null

Vehicle(vin: string, insurance_number: string, last_servicing: datetime, next_servicing: datetime, insurance_expiry: datetime) Type: Entity	Primary Key: vin Candidate Key: none Foreign Key: none
Driver(username: string, license_number: string, salary: real) Type: Entity	Primary Key: username Candidate Key: license_number Foreign Key: username References User
Stored_At(vin: string, bid: string) Type: Relationship	Primary Key: vin Candidate Key: none Foreign Key: vin References Vehicle, bid References Branch
Branch(bid: string, address: string) Type: Entity	Primary Key: bid Candidate Key: address Foreign Key: none
User(username: string, password: string, phone: integer, email: string, first_name: string, last_name: string, address: string) Type: Entity	Primary Key: username Candidate Key: email Foreign Key: none
Customer(username: string, address: string) Type: Entity	Primary Key: username Candidate Key: none Foreign Key: username References User
Manager(username: string, salary: real) Type: Entity	Primary Key: username Candidate Key: none Foreign Key: username References User
Works_At(username: string, start_date: datetime, bid: string) Type: Relationship	Primary Key: username, start_date Candidate Key: none Foreign Key: username References User, bid References Branch Constraints: bid cannot be null
Parcel(pid: string, tracking_number: string, weight: real, size: string) Type: Relationship **Note: Merged Entity/Relationship between Has and Parcel**	Primary Key: pid Candidate Key: tracking_number Foreign Key: tracking_number References Order Constraints: tracking_number not null, pid cannot be null
ISA(username: string)	Primary Key: username Candidate Key: none

Type: Relationship	Foreign Key: username References User
Updates(username: string, status: string, tracking_number: string) Type: Relationship	Primary Key: username, status Candidate Key: none Foreign Key: tracking_number References Order, username References Driver, status References Tracking_Status

Functional Dependencies:

Table	Dependencies
Transaction	tid → amount
Pays_For	tid→ tracking_number, username, date_paid tracking_number → tid
Order	tracking_number → destination
Order_Status	tracking_number, status → timestamp tracking_number → status, timestamp
Places	tracking_number → username
Has_Delivery_Type	tracking_number → type
Delivery_Type	type → rate rate → type
Dispatches	tracking_number → bid, username
Drives	vin→ username username → vin
Vehicle	vin→ insurance_number, insurance_expiry, last_servicing, next_servicing last_servicing → next_servicing Insurance_number → insurance_expiry
Driver	username → licence_number, salary licence_number → username, salary
Stored_At	vin → bid

Branch	bid → address address→bid
User	username → password, phone, email, first_name, last_name, address email → username, password, first name, last name, phone
Customer	username → address
Manager	username → salary
Works_At	username → start_date, bid
Parcel	pid → tracking_number, weight, size tracking_number → pid, weight, size
Updates	username, status→ tracking_number

Normalization:

Table	Normalization

Vehicle	Vehicle(*vin*, *insurance_number*, *insurance_expiry*, *last_servicing*, *next_servicing*)
	
	vin → insurance_number, insurance_expiry, last_servicing, next_servicing
	last_servicing → next_servicing
	insurance_number → insurance_expiry
	
	1. last_servicing → next_servicing breaks BCNF
	    a. Servicing(<u>last_servicing</u>, next_servicing)
	    b. Vehicle(<u>vin</u>, insurance_number, insurance_expiry, last_servicing)
	2. insurance_number → insurance_expiry breaks BCNF
	    a. Insurance(<u>insurance_number</u>, insurance_expiry)
	    b. Vehicle(<u>vin</u>, insurance_number, last_servicing)
	<hr>
	Post Normalization:
	Servicing(<u>last_servicing</u>, next_servicing)
	Insurance(<u>insurance_number</u>, insurance_expiry)
	Vehicle(<u>vin</u>, insurance_number, last_servicing)

SQL DDL statements:

Table	SQL DDL

Transaction	CREATE TABLE Transaction
	    (tid STRING,
	    amount REAL,
	    PRIMARY KEY (tid))

Pays_For	CREATE TABLE Pays_For
	    (tid STRING,
	    date_paid DATE,
	    username STRING,
	    tracking_number STRING,
	    PRIMARY KEY (tid),
	    FOREIGN KEY (tracking_number) REFERENCES Order
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE
	    FOREIGN KEY (username) REFERENCES User
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE
	    FOREIGN KEY (tid) REFERENCES Transaction
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Order	CREATE TABLE Order
	    (tracking_number STRING,
	    destination STRING)
	    PRIMARY KEY (tracking_number))

Order_Status	CREATE TABLE Order_Status
	    (status STRING,
	    timestamp DATE,
	    tracking_number STRING NOT NULL,
	    PRIMARY KEY (tracking_number, status),
	    FOREIGN KEY (tracking_number) REFERENCES Order
	        ON DELETE CASCADE
	        ON UPDATE CASCADE)

Places	CREATE TABLE Places
	    (username STRING NOT NULL,
	    tracking_number STRING,
	    PRIMARY KEY (tracking_number),
	    FOREIGN KEY (tracking_number) REFERENCES Order
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE,
	    FOREIGN KEY (username) REFERENCES Customer
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Parcel	CREATE TABLE Parcel
	    (pid STRING,
	    size REAL,
	    tracking_number STRING NOT NULL,
	    weight REAL,
	    type STRING NOT NULL,
	    PRIMARY KEY (pid),
	    FOREIGN KEY (tracking_number) REFERENCES Order
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE,
	    FOREIGN KEY (type) REFERENCES Delivery_Type
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Has_Delivery_Type	CREATE TABLE Has_Delivery_type
	    (type STRING NOT NULL,
	    tracking_number STRING,
	    PRIMARY KEY (tracking_number),
	    FOREIGN KEY (tracking_number) REFERENCES Order
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE,
	    FOREIGN KEY (type) REFERENCES Delivery_Type
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Delivery_Type	CREATE TABLE Delivery_Type
	    (type STRING,
	    rate REAL,
	    PRIMARY KEY (type),
	    UNIQUE (rate))

Dispatches	CREATE TABLE Dispatches
	    (username STRING,
	    tracking_number STRING,
	    bid STRING,
	    PRIMARY KEY (tracking_number),
	    FOREIGN KEY (tracking_number) REFERENCES Order
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE,
	    FOREIGN KEY (username) REFERENCES Manager
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE,
	    FOREIGN KEY (bid) REFERENCES Branch
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Drives	CREATE TABLE Drives
	    (vin STRING NOT NULL,
	    username STRING NOT NULL,
	    PRIMARY KEY (vin),

	UNIQUE (username),
	FOREIGN KEY (vin) REFERENCES Vehicle
	    ON DELETE SET DEFAULT
	    ON UPDATE CASCADE,
	FOREIGN KEY (username) REFERENCES Driver
	    ON DELETE SET DEFAULT
	    ON UPDATE CASCADE)

Vehicle
(post
normalization)
	CREATE TABLE Vehicle
	    (vin STRING,
	    insurance_number STRING,
	    last_servicing STRING,
	    PRIMARY KEY (vin),
	    FOREIGN KEY (insurance_number) REFERENCES Insurance
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE,
	    FOREIGN KEY (last_servicing) REFERENCES Servicing
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Driver	CREATE TABLE Driver
	    (username STRING,
	    licence_number STRING,
	    salary REAL,
	    PRIMARY KEY (username),
	    UNIQUE (licence_number),
	    FOREIGN KEY (username) REFERENCES User
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Stored_At	CREATE TABLE Stored_At
	    (bid STRING,
	    vin STRING,
	    PRIMARY KEY (vin),
	    FOREIGN KEY (vin) REFERENCES Vehicle
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE,
	    FOREIGN KEY (bid) REFERENCES Branch
	        ON DELETE SET DEFAULT
	        ON UPDATE CASCADE)

Branch	CREATE TABLE Branch
	    (bid STRING,
	    address STRING,
	    PRIMARY KEY (bid),
	    UNIQUE (address))

Insurance	CREATE TABLE Insurance
	    (insurance_number STRING,
	    insurance_expiry DATE,

	PRIMARY KEY (insurance_number))

Servicing	CREATE TABLE Servicing
	     (last_servicing DATE,
	     next_servicing DATE,
	     PRIMARY KEY (last_servicing))

User	CREATE TABLE User
	     (username STRING,
	     password STRING,
	     phone INTEGER,
	     email STRING,
	     first_name STRING,
	     last_name STRING,
	     address STRING,
	     PRIMARY KEY (username),
	     UNIQUE (email))

Customer	CREATE TABLE Customer
	     (username STRING,
	     address STRING,
	     PRIMARY KEY (username),
	     FOREIGN KEY (username) REFERENCES User
	          ON DELETE SET DEFAULT
	          ON UPDATE CASCADE)

Manager	CREATE TABLE Manager
	     (username STRING,
	     salary REAL,
	     PRIMARY KEY (username),
	     FOREIGN KEY (username) REFERENCES User
	          ON DELETE SET DEFAULT
	          ON UPDATE CASCADE)

Works_At	CREATE TABLE Works_At
	     (username STRING,
	     start_date DATE,
	     bid STRING NOT NULL,
	     PRIMARY KEY (username, start_date),
	     FOREIGN KEY (username) REFERENCES User
	          ON DELETE SET DEFAULT
	          ON UPDATE CASCADE,
	    FOREIGN KEY (bid) REFERENCES Branch
	          ON DELETE SET NULL
	          ON UPDATE CASCADE)

Updates	CREATE TABLE Updates
	     (username STRING,
	     tracking_number STRING,
	     status STRING,

	PRIMARY KEY (username, status), FOREIGN KEY (username) REFERENCES Driver ON DELETE SET DEFAULT ON UPDATE CASCADE, FOREIGN KEY (status) REFERENCES Tracking_Status ON DELETE SET DEFAULT ON UPDATE CASCADE, FOREIGN KEY (tracking_number) REFERENCES Order ON DELETE SET DEFAULT ON UPDATE CASCADE)

INSERT Statements:

Table	INSERT Statements
Transaction	INSERT INTO Transaction VALUES ('ABXN1921L', 1); INSERT INTO Transaction VALUES ('CAXN2317H', 3); INSERT INTO Transaction VALUES ('SQER2642E', 2); INSERT INTO Transaction VALUES ('RESW2058C', 1); INSERT INTO Transaction VALUES ('GCSX9847M', 2);
Pay_For	INSERT INTO Pay_For VALUES ('ABXN1921L', 2023-01-04, 'mattma', '8567 3427 0869 9843 2532'); INSERT INTO Pay_For VALUES ('CAXN2317H', 2023-02-22, 'olivek', '1920 0382 9193 0465 8291'); INSERT INTO Pay_For VALUES ('SQER2642E', 2023-01-31, 'greenc', '4069 0002 8467 8400 3211'); INSERT INTO Pay_For VALUES ('RESW2058C', 2023-02-28, 'ubccpsc', '0003 2943 1111 2222 3333'); INSERT INTO Pay_For VALUES ('GCSX9847M', 2023-02-14, '304data', '0000 2948 1234 7563 8888');
Order	INSERT INTO Order VALUES ('8567 3427 0869 9843 2532', 'Coquitlam'); INSERT INTO Order VALUES ('1920 0382 9193 0465 8291', 'Surrey');

	INSERT INTO Order VALUES ('4069 0002 8467 8400 3211', 'Vancouver');
	INSERT INTO Order VALUES ('0003 2943 1111 2222 3333', 'Whistler');
	INSERT INTO Order VALUES ('0000 2948 1234 7563 8888', 'Richmond');
Order_Status	INSERT INTO Order_Status VALUES ('Delivered', 2023-01-14, '8567 3427 0869 9843 2532');
	INSERT INTO Order_Status VALUES ('On the way', 2023-02-25, '1920 0382 9193 0465 8291');
	INSERT INTO Order_Status VALUES ('Delivered', 2023-02-15, '4069 0002 8467 8400 3211');
	INSERT INTO Order_Status VALUES ('Registered', 2023-02-28, '0003 2943 1111 2222 3333');
	INSERT INTO Order_Status VALUES ('Delivered', 2023-02-24, '0000 2948 1234 7563 8888');
Places	INSERT INTO Places VALUES ('mattma', '8567 3427 0869 9843 2532');
	INSERT INTO Places VALUES ('olivek', '1920 0382 9193 0465 8291');
	INSERT INTO Places VALUES ('greenc', '4069 0002 8467 8400 3211');
	INSERT INTO Places VALUES ('ubccpsc', '0003 2943 1111 2222 3333');
	INSERT INTO Places VALUES ('304data', '0000 2948 1234 7563 8888');
Parcel	INSERT INTO Parcel VALUES ('010-123-456', 24, '8567 3427 0869 9843 2532', 40, 'Regular'); INSERT INTO Parcel VALUES ('212-302-596', 30, '1920 0382 9193 0465 8291', 51, 'Prime'); INSERT INTO Parcel VALUES ('010-234-987', 15, '4069 0002 8467 8400 3211', 20, 'Regular'); INSERT INTO Parcel VALUES ('900-236-121', 20, '0003 2943 1111 2222 3333', 33, 'Prime'); INSERT INTO Parcel VALUES ('777-222-111', 10, '0000 2948 1234 7563 8888', 16, 'Regular');
Has_Delivery_Type	INSERT INTO Has_Delivery_Type VALUES ('Regular', '8567 3427 0869 9843 2532');

	INSERT INTO Has_Delivery_Type VALUES ('Prime', '1920 0382 9193 0465 8291'); INSERT INTO Has_Delivery_Type VALUES ('Regular', '4069 0002 8467 8400 3211'); INSERT INTO Has_Delivery_Type VALUES ('Prime', '0003 2943 1111 2222 3333'); INSERT INTO Has_Delivery_Type VALUES ('Regular', '0000 2948 1234 7563 8888');
Delivery_Type	INSERT INTO Delivery_Type VALUES ('Regular', 20); INSERT INTO Delivery_Type VALUES ('Prime', 40); INSERT INTO Delivery_Type VALUES ('Regular', 16); INSERT INTO Delivery_Type VALUES ('Prime', 30); INSERT INTO Delivery_Type VALUES ('Regular', 12);
Dispatch	INSERT INTO Dispatch VALUES ('mattma', '8567 3427 0869 9843 2532', 'RICH'); INSERT INTO Dispatch VALUES ('olivek', '1920 0382 9193 0465 8291', 'CALG'); INSERT INTO Dispatch VALUES ('greenc', '4069 0002 8467 8400 3211', 'WEST'); INSERT INTO Dispatch VALUES ('ubccpsc', '0003 2943 1111 2222 3333', 'NORT'); INSERT INTO Dispatch VALUES ('304data', '0000 2948 1234 7563 8888', 'VANC');
Drives	INSERT INTO Drives VALUES ('1GCEK19J27Z587205', 'mattma'); INSERT INTO Drives VALUES ('1N4AL3AP5EC132267', 'walter'); INSERT INTO Drives VALUES ('2C3CA5CV1AH301187', 'gamma'); INSERT INTO Drives VALUES ('JHMFA3F25AS001231', 'fairview'); INSERT INTO Drives

	VALUES('1G1PF5SC0C7153679',);
Stored_At	INSERT INTO Stored_At VALUES('RICH', '1GCEK19J27Z587205'); INSERT INTO Stored_At VALUES('CALG', '1N4AL3AP5EC132267'); INSERT INTO Stored_At VALUES('WEST', '2C3CA5CV1AH301187'); INSERT INTO Stored_At VALUES('NORT', 'JHMFA3F25AS001231'); INSERT INTO Stored_At VALUES('VANC', '1G1PF5SC0C7153679');
Branch	INSERT INTO Branch VALUES ('RICH', '7871 Westminster Hwy, Richmond, BC V6Y 1A0'); INSERT INTO Branch VALUES ('CALG', '639 5 Ave SW SUITE 100, Calgary, AB T2P 1A0'); INSERT INTO Branch VALUES ('WEST', '1427 Bellevue Ave, West Vancouver, BC V7T 1C0'); INSERT INTO Branch VALUES ('NORT', '3050 Edgemont Blvd, North Vancouver, BC V7R 2N0'); INSERT INTO Branch VALUES ('VANC', '5756 University Blvd, Vancouver, BC V6T 1K0'); INSERT INTO Branch VALUES ('COQU', '1918 Como Lake Ave, Coquitlam, BC V3J 3R0');
Vehicle (post normalization)	INSERT INTO Vehicle VALUES ('1GCEK19J27Z587205', '12345678', '2022-08-34 14:30:56'); INSERT INTO Vehicle VALUES ('1N4AL3AP5EC132267', '87654321', '2022-12-12 08:00:43'); INSERT INTO Vehicle VALUES ('2C3CA5CV1AH301187', '32416587', '2022-10-31 10:13:41'); INSERT INTO Vehicle VALUES ('JHMFA3F25AS001231', '09876543', '2023-01-05 12:34:00'); INSERT INTO Vehicle VALUES ('1G1PF5SC0C7153679', '91827364', '2022-11-28 17:14:05');

Insurance	INSERT INTO Insurance VALUES ('BA1423', '2024-12-31'); INSERT INTO Insurance VALUES ('AC0987', '2025-05-05'); INSERT INTO Insurance VALUES ('NM3456', '2024-08-30'); INSERT INTO Insurance VALUES ('LK1234', '2023-12-31'); INSERT INTO Insurance VALUES ('BV0347', '2026-04-31');
Servicing	INSERT INTO Servicing VALUES ('2022-08-34 14:30:56', '2023-03-03'); INSERT INTO Servicing VALUES ('2022-12-12 08:00:43', '2023-06-15'); INSERT INTO Servicing VALUES ('2022-10-31 10:13:41', '2023-05-02'); INSERT INTO Servicing VALUES ('2023-01-05 12:34:00', '2023-07-15'); INSERT INTO Servicing VALUES ('2022-11-28 17:14:05', '2023-06-01');
User	INSERT INTO User VALUES ('mattma', '1234', 2349020000, 'matt@gmail.com', 'Mattie', 'Lin', '1010 UBC Boulevard, Richmond'); INSERT INTO User VALUES ('olivek', '4321', 1020102222, 'olive@gmail.com', 'Ollie', 'Kiyono', '3829 Banff Boulevard, Calgary'); INSERT INTO User VALUES ('greenc', '2345', 1112223333, 'green@gmail.com', 'Green', 'Chun', '9876 Curry Boulevard, West Vancouver'); INSERT INTO User VALUES ('ubccpsc', '0482', 3942014726, 'ubccpsc@gmail.com', 'Uber', 'Comp', '2366 Main Mall, North Vancouver'); INSERT INTO User VALUES ('304data', '6938', 6203951093, '304data@gmail.com', 'Tevin', 'Yasumi', '4827 Save On, Vancouver'); INSERT INTO User VALUES ('walter', '6739', 5603951093, 'walter@gmail.com', 'Khal', 'Tek', '5960 Exchange Union, Vancouver'); INSERT INTO User VALUES ('gamma', '7588', 5637851093, 'gamma@gmail.com', 'Steve', 'Velonic', '2345 Kitsilano St, Vancouver'); INSERT INTO User VALUES ('fairview', '6238', 6123765093, 'fairview@gmail.com', 'Jeremy', 'Guerin', '9576 Safe Way, Surrey'); INSERT INTO User VALUES ('emma', '2634', 0498273647, emma@gmail.com, 'Emma, 'Cheng', '5960 Professor Boulevard, Coquitlam'); INSERT INTO User VALUES ('vanessa', '2848', '8376251938',

	vanessa@gmail.com, 'Vanessa', 'Riley', '3948 Salt Lake, Coquitlam');
Customer	INSERT INTO Customer VALUES ('mattma', '1010 UBC Boulevard, Richmond');
	INSERT INTO Customer VALUES ('olivek', '3829 Banff Boulevard, Calgary');
	INSERT INTO Customer VALUES ('greenc', '9876 Curry Boulevard, West Vancouver');
	INSERT INTO Customer VALUES ('ubccpsc', '2366 Main Mall, North Vancouver');
	INSERT INTO Customer VALUES ('304data', '4827 Save On, Vancouver');
Driver	INSERT INTO Driver VALUES ('mattma', 'ABC 1234', 30);
	INSERT INTO Driver VALUES ('walter', 'BNG 0987', 12);
	INSERT INTO Driver VALUES ('gamma', 'MDK 2391', 20.5);
	INSERT INTO Driver VALUES ('fairview', 'WOE 1001', 15);
	INSERT INTO Driver VALUES ('olivek', 'TDS 2841', 35.5);
Manager	INSERT INTO Manager VALUES ('olivek', 35.5);
	INSERT INTO Manager VALUES ('ubccpsc', 32);
	INSERT INTO Manager VALUES ('emma', 25);
	INSERT INTO Manager VALUES ('mattma', 30);
	INSERT INTO Manager VALUES ('vanessa', 22);
Works_At	INSERT INTO Works_At VALUES ('mattma', 2021-12-12, 'RICH');
	INSERT INTO Works_At VALUES ('walter', 2023-01-12, 'WEST');
	INSERT INTO Works_At VALUES ('gamma', 2022-08-30, 'VANC');
	INSERT INTO Works_At VALUES ('fairview', 2022-11-01, 'RICH');
	INSERT INTO Works_At VALUES ('olivek', 2021-10-31, 'VANC');
	INSERT INTO Works_At VALUES ('ubccpsc', 2022-01-31, 'NORT');
	INSERT INTO Works_At VALUES ('emma', 2022-06-01, 'COQU');
	INSERT INTO Work_At VALUES ('vanessa', 2022-05-31, 'COQU');

Updates	INSERT INTO Updates VALUES ('mattma', '8567 3427 0869 9843 2532', 'Delivered');
	INSERT INTO Updates VALUES ('olivek', '1920 0382 9193 0465 8291', 'On the way');
	INSERT INTO Updates VALUES ('greenc', '4069 0002 8467 8400 3211', 'Delivered');
	INSERT INTO Updates VALUES ('ubccpsc', '0003 2943 1111 2222 3333', 'Registered');
	INSERT INTO Updates VALUES ('304data', '0000 2948 1234 7563 8888', 'Delivered');