

Databases Units

Author: FIT Database Teaching Team

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FIT9132 2024 S2 Assignment 2

SAMPLE SOLUTION

Task 1 DDL

Task 2 INSERT

Task 3 DML

Task 4 Modifications

Task 5 SQL Queries

Task 6 MongoDB

TASK 1 DDL
TASK 2 Insert
Marking

Assignment 2 Feedback

```
SQL> ===== START RUN =====
SQL> -- Running pat_initialSchemaInsert.sql
SQL> set echo off
SQL> ----- Task 1 Create Tables -----
SQL> @T1-pat-schema.sql
SQL> -----PLEASE ENTER YOUR DETAILS BELOW-----
SQL> --T1-pat-schema.sql
SQL>
SQL> --Student ID:
SQL> --Student Name: Sample Solution
SQL>
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL> */
SQL>
SQL> -- Task 1 Add Create table statements for the Missing TABLES below.
SQL> -- Ensure all column comments, and constraints (other than FK's)are included.
SQL> -- FK constraints are to be added at the end of this script
SQL>
SQL> -- OFFICIAL
SQL> CREATE TABLE official (
  2     off_id      NUMBER(4) NOT NULL,
  3     off_given   VARCHAR2(30),
  4     off_family  VARCHAR2(30),
  5     cr_ioc_code CHAR(3) NOT NULL,
  6     off_cdm     NUMBER(4)
  7 );

Table OFFICIAL created.

SQL>
SQL> COMMENT ON COLUMN official.off_id IS
  2     'Identifier for official';

Comment created.

SQL>
SQL> COMMENT ON COLUMN official.off_given IS
  2     'Officials given name';

Comment created.

SQL>
SQL> COMMENT ON COLUMN official.off_family IS
  2     'Officials family name';

Comment created.

SQL>
SQL> COMMENT ON COLUMN official.cr_ioc_code IS
  2     'IOC country code - identifier';
```

Assignment 2 Feedback

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN official.off_cdm IS
      2      'Identifier for official';
```

Comment created.

```
SQL>
SQL> ALTER TABLE official ADD CONSTRAINT official_pk PRIMARY KEY ( off_id );
```

Table OFFICIAL altered.

```
SQL>
SQL> -- VEHICLE
SQL> CREATE TABLE vehicle (
      2      veh_vin          CHAR(17) NOT NULL,
      3      veh_rego         CHAR(7) NOT NULL,
      4      veh_year         DATE NOT NULL,
      5      veh_curr_odo      NUMBER(6) NOT NULL,
      6      veh_nopassengers  NUMBER(2) NOT NULL,
      7      vm_model_id      NUMBER(4) NOT NULL
      8  );
```

Table VEHICLE created.

```
SQL>
SQL> COMMENT ON COLUMN vehicle.veh_vin IS
      2      'Identifier for vehicle';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN vehicle.veh_rego IS
      2      'Registration plate of vehicle';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN vehicle.veh_year IS
      2      'Year of manufacture of vehicle';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN vehicle.veh_curr_odo IS
      2      'Current odometer reading of vehicle';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN vehicle.veh_nopassengers IS
      2      'Number of passengers vehicle can seat';
```

Comment created.

Assignment 2 Feedback

```
SQL>
SQL> COMMENT ON COLUMN vehicle.vm_model_id IS
2      'Surrogate key added due to the length natural key ';
```

Comment created.

```
SQL>
SQL> ALTER TABLE vehicle ADD CONSTRAINT vehicle_pk PRIMARY KEY ( veh_vin );
```

Table VEHICLE altered.

```
SQL>
SQL>
SQL> -- TRIP
SQL> CREATE TABLE trip (
2      trip_id          NUMBER(4) NOT NULL,
3      trip_nopassengers NUMBER(2) NOT NULL,
4      trip_int_pickupdt DATE NOT NULL,
5      trip_act_pickupdt DATE,
6      trip_int_dropoffdt DATE NOT NULL,
7      trip_act_dropoffdt DATE,
8      veh_vin          CHAR(17) NOT NULL,
9      driver_id        NUMBER(4) NOT NULL,
10     pickup_locn_id    NUMBER(3) NOT NULL,
11     dropoff_locn_id   NUMBER(3) NOT NULL,
12     lang_iso_code     CHAR(2) NOT NULL,
13     off_id            NUMBER(4) NOT NULL
14 );
```

Table TRIP created.

```
SQL>
SQL> COMMENT ON COLUMN trip.trip_id IS
2      'Identifier for a trip';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN trip.trip_nopassengers IS
2      'Number of passengers fot the trip';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN trip.trip_int_pickupdt IS
2      'Intended pickup date and time';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN trip.trip_act_pickupdt IS
2      'Trip actual pickup date and time';
```

Comment created.

```
SQL>
```

Assignment 2 Feedback

```
SQL> COMMENT ON COLUMN trip.trip_int_dropoffdt IS  
2      'Trip intended drop off date and time';
```

Comment created.

```
SQL>  
SQL> COMMENT ON COLUMN trip.trip_act_dropoffdt IS  
2      'Trip actual drop off data and time';
```

Comment created.

```
SQL>  
SQL> COMMENT ON COLUMN trip.veh_vin IS  
2      'Identifier for vehicle';
```

Comment created.

```
SQL>  
SQL> COMMENT ON COLUMN trip.driver_id IS  
2      'Driver identifier';
```

Comment created.

```
SQL>  
SQL> COMMENT ON COLUMN trip.pickup_locn_id IS  
2      'Identifier for location';
```

Comment created.

```
SQL>  
SQL> COMMENT ON COLUMN trip.dropoff_locn_id IS  
2      'Identifier for location';
```

Comment created.

```
SQL>  
SQL> COMMENT ON COLUMN trip.lang_iso_code IS  
2      'ISO639-1 two character language codes - identifier';
```

Comment created.

```
SQL>  
SQL> COMMENT ON COLUMN trip.off_id IS  
2      'Identifier for official';
```

Comment created.

```
SQL>  
SQL> ALTER TABLE trip ADD CONSTRAINT trip_pk PRIMARY KEY ( trip_id );
```

Table TRIP altered.

```
SQL>  
SQL> ALTER TABLE trip ADD CONSTRAINT driver_pickupdt_uq UNIQUE ( driver_id,  
2                                                                trip_int_pickupdt );
```

Assignment 2 Feedback

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE trip ADD CONSTRAINT driver_dropoffdt_uq UNIQUE ( driver_id,
  2                                                                    trip_int_dropoffdt );
```

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE trip ADD CONSTRAINT veh_dropoffdt_uq UNIQUE ( veh_vin,
  2                                                                    trip_int_dropoffdt );
```

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE trip ADD CONSTRAINT veh_pickupdt_uq UNIQUE ( veh_vin,
  2                                                                    trip_int_pickupdt );
```

Table TRIP altered.

```
SQL>
SQL> -- Add all missing FK Constraints below here
SQL> ALTER TABLE official
  2     ADD CONSTRAINT country_region_official_fk FOREIGN KEY ( cr_ioc_code )
  3     REFERENCES country_region ( cr_ioc_code );
```

Table OFFICIAL altered.

```
SQL>
SQL> ALTER TABLE official
  2     ADD CONSTRAINT official_offocialcdm_fk FOREIGN KEY ( off_cdm )
  3     REFERENCES official ( off_id );
```

Table OFFICIAL altered.

```
SQL>
SQL> ALTER TABLE trip
  2     ADD CONSTRAINT driver_trip_fk FOREIGN KEY ( driver_id )
  3     REFERENCES driver ( driver_id );
```

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE trip
  2     ADD CONSTRAINT language_trip_fk FOREIGN KEY ( lang_iso_code )
  3     REFERENCES language ( lang_iso_code );
```

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE trip
  2     ADD CONSTRAINT locpickup_trip_fk FOREIGN KEY ( pickup_locn_id )
  3     REFERENCES location ( locn_id );
```

Table TRIP altered.

Assignment 2 Feedback

```
SQL>
SQL> ALTER TABLE trip
  2     ADD CONSTRAINT dropofflocn_trip_fk FOREIGN KEY ( dropoff_locn_id )
  3     REFERENCES location ( locn_id );
```

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE trip
  2     ADD CONSTRAINT official_trip_fk FOREIGN KEY ( off_id )
  3     REFERENCES official ( off_id );
```

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE trip
  2     ADD CONSTRAINT vehicle_trip_fk FOREIGN KEY ( veh_vin )
  3     REFERENCES vehicle ( veh_vin );
```

Table TRIP altered.

```
SQL>
SQL> ALTER TABLE vehicle
  2     ADD CONSTRAINT veh_model_vehicle_fk FOREIGN KEY ( vm_model_id )
  3     REFERENCES vehicle_model ( vm_model_id );
```

Table VEHICLE altered.

```
SQL>
SQL> ----- OFFICIAL -----
SQL> describe OFFICIAL
```

Name	Null?	Type
OFF_ID	NOT NULL	NUMBER(4)
OFF_GIVEN		VARCHAR2(30)
OFF_FAMILY		VARCHAR2(30)
CR_IOC_CODE	NOT NULL	CHAR(3)
OFF_CDM		NUMBER(4)

```
SQL> ----- VEHICLE -----
SQL> describe VEHICLE
```

Name	Null?	Type
VEH_VIN	NOT NULL	CHAR(17)
VEH_REGO	NOT NULL	CHAR(7)
VEH_YEAR	NOT NULL	DATE
VEH_CURR_ODO	NOT NULL	NUMBER(6)
VEH_NOPASSENGERS	NOT NULL	NUMBER(2)
VM_MODEL_ID	NOT NULL	NUMBER(4)

```
SQL> ----- TRIP -----
SQL> describe TRIP
```

Name	Null?	Type
TRIP_ID	NOT NULL	NUMBER(4)

Assignment 2 Feedback

```
TRIP_NOPASSENGERS      NOT NULL      NUMBER(2)
TRIP_INT_PICKUPDT      NOT NULL      DATE
TRIP_ACT_PICKUPDT      DATE
TRIP_INT_DROPOFFDT     NOT NULL      DATE
TRIP_ACT_DROPOFFDT     DATE
VEH_VIN                NOT NULL      CHAR(17)
DRIVER_ID              NOT NULL      NUMBER(4)
PICKUP_LOCN_ID         NOT NULL      NUMBER(3)
DROPOFF_LOCN_ID        NOT NULL      NUMBER(3)
LANG_ISO_CODE          NOT NULL      CHAR(2)
OFF_ID                 NOT NULL      NUMBER(4)
```

SQL>

SQL> ----- CONSTRAINTS DECLARED -----

SQL> set echo off

CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION
OFFICIAL_PK	Primary Key	OFFICIAL	
COUNTRY_REGION_OFFICIAL_FK	Foreign Key	OFFICIAL	
OFFICIAL_OFFICIALCDM_FK	Foreign Key	OFFICIAL	
SYS_C0015628741	Check	OFFICIAL	"CR_IOC_CODE" IS NOT NULL
SYS_C0015628740	Check	OFFICIAL	"OFF_ID" IS NOT NULL
DRIVER_PICKUPDT_UQ	Unique	TRIP	
VEH_PICKUPDT_UQ	Unique	TRIP	
DRIVER_DROPOFFDT_UQ	Unique	TRIP	
VEH_DROPOFFDT_UQ	Unique	TRIP	
TRIP_PK	Primary Key	TRIP	
VEHICLE_TRIP_FK	Foreign Key	TRIP	
OFFICIAL_TRIP_FK	Foreign Key	TRIP	
LOCPICKUP_TRIP_FK	Foreign Key	TRIP	
LANGUAGE_TRIP_FK	Foreign Key	TRIP	
DROPOFFLOCN_TRIP_FK	Foreign Key	TRIP	
DRIVER_TRIP_FK	Foreign Key	TRIP	
SYS_C0015628750	Check	TRIP	"TRIP_ID" IS NOT NULL
SYS_C0015628759	Check	TRIP	"OFF_ID" IS NOT NULL
SYS_C0015628758	Check	TRIP	"LANG_ISO_CODE" IS NOT NULL
SYS_C0015628757	Check	TRIP	"DROPOFF_LOCN_ID" IS NOT NULL
SYS_C0015628756	Check	TRIP	"PICKUP_LOCN_ID" IS NOT NULL
SYS_C0015628755	Check	TRIP	"DRIVER_ID" IS NOT NULL
SYS_C0015628754	Check	TRIP	"VEH_VIN" IS NOT NULL
SYS_C0015628753	Check	TRIP	"TRIP_INT_DROPOFFDT" IS NOT NULL
SYS_C0015628751	Check	TRIP	"TRIP_NOPASSENGERS" IS NOT NULL
SYS_C0015628752	Check	TRIP	"TRIP_INT_PICKUPDT" IS NOT NULL
VEHICLE_PK	Primary Key	VEHICLE	
VEH_MODEL_VEHICLE_FK	Foreign Key	VEHICLE	
SYS_C0015628744	Check	VEHICLE	"VEH_REGO" IS NOT NULL
SYS_C0015628745	Check	VEHICLE	"VEH_YEAR" IS NOT NULL
SYS_C0015628746	Check	VEHICLE	"VEH_CURR_ODO" IS NOT NULL
SYS_C0015628743	Check	VEHICLE	"VEH_VIN" IS NOT NULL
SYS_C0015628747	Check	VEHICLE	"VEH_NOPASSENGERS" IS NOT NULL
SYS_C0015628748	Check	VEHICLE	"VM_MODEL_ID" IS NOT NULL

34 rows selected.

SQL> ----- Task 2 Load Student Data -----
SQL> @T2-pat-insert.sql

Assignment 2 Feedback

```
SQL> /*****PLEASE ENTER YOUR DETAILS BELOW*****/
SQL> --T2-pat-insert.sql
SQL>
SQL> --Student ID:
SQL> --Student Name: Sample Solution
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> -----
SQL> --INSERT INTO official
SQL> -----
SQL> INSERT INTO official (
  2     off_id,
  3     off_given,
  4     off_family,
  5     cr_ioc_code,
  6     off_cdm
  7 ) VALUES (
  8     1,
  9     'Emily',
  10    'Williams',
  11    'USA',
  12    NULL
  13 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO official (
  2     off_id,
  3     off_given,
  4     off_family,
  5     cr_ioc_code,
  6     off_cdm
  7 ) VALUES (
  8     2,
  9     'Michael',
  10    'Johnson',
  11    'USA',
  12    1
  13 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO official (
  2     off_id,
  3     off_given,
  4     off_family,
  5     cr_ioc_code,
  6     off_cdm
  7 ) VALUES (
```

Assignment 2 Feedback

```
8      3,  
9      'Pierre',  
10     'Martin',  
11     'FRA',  
12     NULL  
13 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO official (  
2     off_id,  
3     off_given,  
4     off_family,  
5     cr_ioc_code,  
6     off_cdm  
7 ) VALUES (  
8     4,  
9     'Sophie',  
10    'Dubois',  
11    'FRA',  
12    3  
13 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO official (  
2     off_id,  
3     off_given,  
4     off_family,  
5     cr_ioc_code,  
6     off_cdm  
7 ) VALUES (  
8     5,  
9     'James',  
10    'Smith',  
11    'AUS',  
12    NULL  
13 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO official (  
2     off_id,  
3     off_given,  
4     off_family,  
5     cr_ioc_code,  
6     off_cdm  
7 ) VALUES (  
8     6,  
9     'Laura',  
10    'Schmidt',  
11    'GER',  
12    NULL
```

Assignment 2 Feedback

```
13 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO official (  
2     off_id,  
3     off_given,  
4     off_family,  
5     cr_ioc_code,  
6     off_cdm  
7 ) VALUES (  
8     7,  
9     'Yui',  
10    'Suzuki',  
11    'JPN',  
12    NULL  
13 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO official (  
2     off_id,  
3     off_given,  
4     off_family,  
5     cr_ioc_code,  
6     off_cdm  
7 ) VALUES (  
8     8,  
9     'Wei',  
10    'Zhang',  
11    'CHN',  
12    NULL  
13 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO official (  
2     off_id,  
3     off_given,  
4     cr_ioc_code,  
5     off_cdm  
6 ) VALUES (  
7     9,  
8     'Alejandro',  
9     'ESP',  
10    NULL  
11 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO official (  
2     off_id,
```

Assignment 2 Feedback

```
3      off_given,  
4      cr_ioc_code,  
5      off_cdm  
6 ) VALUES (  
7      10,  
8      'Olivia',  
9      'CAN',  
10     NULL  
11 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO official (  
2      off_id,  
3      off_given,  
4      off_family,  
5      cr_ioc_code,  
6      off_cdm  
7 ) VALUES (  
8      11,  
9      'Ana',  
10     'Costa',  
11     'BRA',  
12     NULL  
13 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO official (  
2      off_id,  
3      off_family,  
4      cr_ioc_code,  
5      off_cdm  
6 ) VALUES (  
7      12,  
8      'Batyrova',  
9      'KAZ',  
10     NULL  
11 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO official (  
2      off_id,  
3      off_given,  
4      off_family,  
5      cr_ioc_code,  
6      off_cdm  
7 ) VALUES (  
8      13,  
9      'Ahmed',  
10     'Hassan',  
11     'EGY',
```

Assignment 2 Feedback

```
12     NULL
13 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO official (
2     off_id,
3     off_given,
4     off_family,
5     cr_ioc_code,
6     off_cdm
7 ) VALUES (
8     14,
9     'Oluwaseun',
10    'Okafor',
11    'NGR',
12    NULL
13 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO official (
2     off_id,
3     off_given,
4     off_family,
5     cr_ioc_code,
6     off_cdm
7 ) VALUES (
8     15,
9     'Chioma',
10    'Adeyemi',
11    'NGR',
12    14
13 );
```

1 row inserted.

```
SQL>
SQL> -----
SQL> --INSERT INTO vehicle
SQL> -----
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     'YV1952AS4D1408550',
10    'EN900PD',
11    TO_DATE('2024', 'YYYY'),
12    691,
13    12,
```

Assignment 2 Feedback

```
14      1
15 );

1 row inserted.

SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     '4T1BK3DB2BU891397',
10    'EI703NU',
11    TO_DATE('2024', 'YYYY'),
12    804,
13    12,
14    1
15 );

1 row inserted.

SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     '1G6KD54Y92U557711',
10    'FE566BN',
11    TO_DATE('2023', 'YYYY'),
12    1216,
13    20,
14    2
15 );

1 row inserted.

SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     'WAUMR44E85N069305',
10    'UV023RT',
11    TO_DATE('2024', 'YYYY'),
12    901,
```

Assignment 2 Feedback

```
13      45,  
14      3  
15 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO vehicle (  
2     veh_vin,  
3     veh_rego,  
4     veh_year,  
5     veh_curr_odo,  
6     veh_nopassengers,  
7     vm_model_id  
8 ) VALUES (  
9     '1G6DL67A190421039',  
10    'JR0900B',  
11    TO_DATE('2024', 'YYYY'),  
12    620,  
13    54,  
14    3  
15 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO vehicle (  
2     veh_vin,  
3     veh_rego,  
4     veh_year,  
5     veh_curr_odo,  
6     veh_nopassengers,  
7     vm_model_id  
8 ) VALUES (  
9     'JTEBW3EH8A2753607',  
10    'CP647DB',  
11    TO_DATE('2023', 'YYYY'),  
12    2562,  
13    96,  
14    4  
15 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO vehicle (  
2     veh_vin,  
3     veh_rego,  
4     veh_year,  
5     veh_curr_odo,  
6     veh_nopassengers,  
7     vm_model_id  
8 ) VALUES (  
9     '1G6KE54Y11U434240',  
10    'EI513NS',  
11    TO_DATE('2023', 'YYYY'),
```


Assignment 2 Feedback

```
12      1488,  
13      57,  
14      5  
15 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO vehicle (  
2     veh_vin,  
3     veh_rego,  
4     veh_year,  
5     veh_curr_odo,  
6     veh_nopassengers,  
7     vm_model_id  
8 ) VALUES (  
9     '5UXFG8C50BL686231',  
10    'IU820NP',  
11    TO_DATE('2023', 'YYYY'),  
12    1442,  
13    57,  
14    5  
15 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO vehicle (  
2     veh_vin,  
3     veh_rego,  
4     veh_year,  
5     veh_curr_odo,  
6     veh_nopassengers,  
7     vm_model_id  
8 ) VALUES (  
9     '1D4PU4GK7BW972165',  
10    'SW665ZX',  
11    TO_DATE('2023', 'YYYY'),  
12    1101,  
13    6,  
14    6  
15 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO vehicle (  
2     veh_vin,  
3     veh_rego,  
4     veh_year,  
5     veh_curr_odo,  
6     veh_nopassengers,  
7     vm_model_id  
8 ) VALUES (  
9     'WUARL48H57K684173',  
10    'TS405GO',
```

Assignment 2 Feedback

```
11     TO_DATE('2024', 'YYYY'),
12     764,
13     8,
14     6
15 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     '1C4SDHCT9FC613386',
10    'EN025RJ',
11    TO_DATE('2024', 'YYYY'),
12    707,
13    6,
14    7
15 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     '3VW1K7AJ8DM593363',
10    'JS747DD',
11    TO_DATE('2023', 'YYYY'),
12    1561,
13    6,
14    7
15 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     '3GYFNAEY1BS255875',
```

Assignment 2 Feedback

```
10      'SO085MR',
11      TO_DATE('2023', 'YYYY'),
12      1574,
13      8,
14      8
15 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     'SCBLC31E41C410996',
10    'EE827MR',
11    TO_DATE('2024', 'YYYY'),
12    465,
13    12,
14    9
15 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO vehicle (
2     veh_vin,
3     veh_rego,
4     veh_year,
5     veh_curr_odo,
6     veh_nopassengers,
7     vm_model_id
8 ) VALUES (
9     'WAUD2AFD1EN836662',
10    'OK876TC',
11    TO_DATE('2023', 'YYYY'),
12    1000,
13    12,
14    9
15 );
```

1 row inserted.

```
SQL>
SQL> -----
SQL> --INSERT INTO trip
SQL> -----
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
```

Assignment 2 Feedback

```
6      trip_int_dropoffdt,
7      trip_act_dropoffdt,
8      veh_vin,
9      driver_id,
10     pickup_locn_id,
11     dropoff_locn_id,
12     lang_iso_code,
13     off_id
14 ) VALUES (
15     1,
16     50,
17     TO_DATE('2024-07-27:07:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-07-27:07:03', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-07-27:09:25', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-07-27:09:40', 'YYYY-MM-DD:HH24:MI'),
21     '1G6DL67A190421039',
22     2011,
23     113,
24     110,
25     'en',
26     14
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (
2      trip_id,
3      trip_nopassengers,
4      trip_int_pickupdt,
5      trip_act_pickupdt,
6      trip_int_dropoffdt,
7      trip_act_dropoffdt,
8      veh_vin,
9      driver_id,
10     pickup_locn_id,
11     dropoff_locn_id,
12     lang_iso_code,
13     off_id
14 ) VALUES (
15     2,
16     50,
17     TO_DATE('2024-07-27:17:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-07-27:17:01', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-07-27:19:40', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-07-27:19:52', 'YYYY-MM-DD:HH24:MI'),
21     '1G6DL67A190421039',
22     2007,
23     110,
24     113,
25     'en',
26     14
27 );
```

1 row inserted.

Assignment 2 Feedback

```
SQL>
SQL> INSERT INTO trip (
 2     trip_id,
 3     trip_nopassengers,
 4     trip_int_pickupdt,
 5     trip_act_pickupdt,
 6     trip_int_dropoffdt,
 7     trip_act_dropoffdt,
 8     veh_vin,
 9     driver_id,
10     pickup_locn_id,
11     dropoff_locn_id,
12     lang_iso_code,
13     off_id
14 ) VALUES (
15     3,
16     6,
17     TO_DATE('2024-07-28:08:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-07-28:07:57', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-07-28:08:30', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-07-28:08:28', 'YYYY-MM-DD:HH24:MI'),
21     '1D4PU4GK7BW972165',
22     2010,
23     113,
24     104,
25     'ja',
26     7
27 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
 2     trip_id,
 3     trip_nopassengers,
 4     trip_int_pickupdt,
 5     trip_act_pickupdt,
 6     trip_int_dropoffdt,
 7     trip_act_dropoffdt,
 8     veh_vin,
 9     driver_id,
10     pickup_locn_id,
11     dropoff_locn_id,
12     lang_iso_code,
13     off_id
14 ) VALUES (
15     4,
16     10,
17     TO_DATE('2024-07-28:12:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-07-28:12:07', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-07-28:12:20', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-07-28:12:31', 'YYYY-MM-DD:HH24:MI'),
21     'SCBLC31E41C410996',
22     2003,
23     115,
24     120,
```

Assignment 2 Feedback

```
25      'en',
26      5
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (
 2      trip_id,
 3      trip_nopassengers,
 4      trip_int_pickupdt,
 5      trip_act_pickupdt,
 6      trip_int_dropoffdt,
 7      trip_act_dropoffdt,
 8      veh_vin,
 9      driver_id,
10      pickup_locn_id,
11      dropoff_locn_id,
12      lang_iso_code,
13      off_id
14 ) VALUES (
15      5,
16      10,
17      TO_DATE('2024-07-28:12:00', 'YYYY-MM-DD:HH24:MI'),
18      TO_DATE('2024-07-28:12:05', 'YYYY-MM-DD:HH24:MI'),
19      TO_DATE('2024-07-28:12:20', 'YYYY-MM-DD:HH24:MI'),
20      TO_DATE('2024-07-28:12:30', 'YYYY-MM-DD:HH24:MI'),
21      '4T1BK3DB2BU891397',
22      2006,
23      115,
24      120,
25      'en',
26      5
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (
 2      trip_id,
 3      trip_nopassengers,
 4      trip_int_pickupdt,
 5      trip_act_pickupdt,
 6      trip_int_dropoffdt,
 7      trip_act_dropoffdt,
 8      veh_vin,
 9      driver_id,
10      pickup_locn_id,
11      dropoff_locn_id,
12      lang_iso_code,
13      off_id
14 ) VALUES (
15      6,
16      80,
17      TO_DATE('2024-07-30:15:40', 'YYYY-MM-DD:HH24:MI'),
18      TO_DATE('2024-07-30:15:42', 'YYYY-MM-DD:HH24:MI'),
```

Assignment 2 Feedback

```
19     TO_DATE('2024-07-30:17:00', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-07-30:17:04', 'YYYY-MM-DD:HH24:MI'),
21     'JTEBW3EH8A2753607',
22     2004,
23     120,
24     114,
25     'pt',
26     11
27 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
6     trip_int_dropoffdt,
7     trip_act_dropoffdt,
8     veh_vin,
9     driver_id,
10    pickup_locn_id,
11    dropoff_locn_id,
12    lang_iso_code,
13    off_id
14 ) VALUES (
15     7,
16     10,
17     TO_DATE('2024-07-30:16:45', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-07-30:16:45', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-07-30:18:00', 'YYYY-MM-DD:HH24:MI'),
20     NULL,
21     '4T1BK3DB2BU891397',
22     2014,
23     120,
24     114,
25     'en',
26     5
27 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
6     trip_int_dropoffdt,
7     trip_act_dropoffdt,
8     veh_vin,
9     driver_id,
10    pickup_locn_id,
11    dropoff_locn_id,
12    lang_iso_code,
```

Assignment 2 Feedback

```
13     off_id
14 ) VALUES (
15     8,
16     10,
17     TO_DATE('2024-07-30:22:30', 'YYYY-MM-DD:HH24:MI'),
18     NULL,
19     TO_DATE('2024-07-30:23:30', 'YYYY-MM-DD:HH24:MI'),
20     NULL,
21     '4T1BK3DB2BU891397',
22     2014,
23     114,
24     113,
25     'en',
26     5
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
6     trip_int_dropoffdt,
7     trip_act_dropoffdt,
8     veh_vin,
9     driver_id,
10    pickup_locn_id,
11    dropoff_locn_id,
12    lang_iso_code,
13    off_id
14 ) VALUES (
15     9,
16     25,
17     TO_DATE('2024-07-31:07:20', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-07-31:07:30', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-07-31:08:00', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-07-31:08:13', 'YYYY-MM-DD:HH24:MI'),
21     'WAUMR44E85N069305',
22     2009,
23     113,
24     121,
25     'en',
26     10
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
6     trip_int_dropoffdt,
```


Assignment 2 Feedback

```
7      trip_act_dropoffdt,
8      veh_vin,
9      driver_id,
10     pickup_locn_id,
11     dropoff_locn_id,
12     lang_iso_code,
13     off_id
14 ) VALUES (
15     10,
16     25,
17     TO_DATE('2024-07-31:17:30', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-07-31:17:32', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-07-31:18:00', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-07-31:18:06', 'YYYY-MM-DD:HH24:MI'),
21     'WAUMR44E85N069305',
22     2002,
23     121,
24     114,
25     'en',
26     10
27 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
6     trip_int_dropoffdt,
7     trip_act_dropoffdt,
8     veh_vin,
9     driver_id,
10    pickup_locn_id,
11    dropoff_locn_id,
12    lang_iso_code,
13    off_id
14 ) VALUES (
15     11,
16     4,
17     TO_DATE('2024-08-01:14:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-08-01:14:01', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-08-01:14:25', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-08-01:14:28', 'YYYY-MM-DD:HH24:MI'),
21     '1C4SDHCT9FC613386',
22     2012,
23     112,
24     116,
25     'ar',
26     13
27 );
```

1 row inserted.

SQL>

Assignment 2 Feedback

```
SQL> INSERT INTO trip (
  2     trip_id,
  3     trip_nopassengers,
  4     trip_int_pickupdt,
  5     trip_act_pickupdt,
  6     trip_int_dropoffdt,
  7     trip_act_dropoffdt,
  8     veh_vin,
  9     driver_id,
 10     pickup_locn_id,
 11     dropoff_locn_id,
 12     lang_iso_code,
 13     off_id
14 ) VALUES (
15     12,
16     12,
17     TO_DATE('2024-08-02:12:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-08-02:12:00', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-08-02:12:35', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-08-02:12:33', 'YYYY-MM-DD:HH24:MI'),
21     'WAUD2AFD1EN836662',
22     2008,
23     107,
24     105,
25     'fr',
26     3
27 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
  2     trip_id,
  3     trip_nopassengers,
  4     trip_int_pickupdt,
  5     trip_act_pickupdt,
  6     trip_int_dropoffdt,
  7     trip_act_dropoffdt,
  8     veh_vin,
  9     driver_id,
 10     pickup_locn_id,
 11     dropoff_locn_id,
 12     lang_iso_code,
 13     off_id
14 ) VALUES (
15     13,
16     5,
17     TO_DATE('2024-08-02:12:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-08-02:12:00', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-08-02:12:35', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-08-02:12:30', 'YYYY-MM-DD:HH24:MI'),
21     '3VW1K7AJ8DM593363',
22     2001,
23     107,
24     105,
25     'fr',
```

Assignment 2 Feedback

```
26      3
27 );

1 row inserted.
```

```
SQL>
SQL> INSERT INTO trip (
  2     trip_id,
  3     trip_nopassengers,
  4     trip_int_pickupdt,
  5     trip_act_pickupdt,
  6     trip_int_dropoffdt,
  7     trip_act_dropoffdt,
  8     veh_vin,
  9     driver_id,
 10     pickup_locn_id,
 11     dropoff_locn_id,
 12     lang_iso_code,
 13     off_id
 14 ) VALUES (
 15     14,
 16     48,
 17     TO_DATE('2024-08-03:17:05', 'YYYY-MM-DD:HH24:MI'),
 18     TO_DATE('2024-08-03:17:10', 'YYYY-MM-DD:HH24:MI'),
 19     TO_DATE('2024-08-03:17:30', 'YYYY-MM-DD:HH24:MI'),
 20     TO_DATE('2024-08-03:17:36', 'YYYY-MM-DD:HH24:MI'),
 21     '5UXFG8C50BL686231',
 22     2013,
 23     103,
 24     113,
 25     'zh',
 26     8
 27 );

1 row inserted.
```

```
SQL>
SQL> INSERT INTO trip (
  2     trip_id,
  3     trip_nopassengers,
  4     trip_int_pickupdt,
  5     trip_act_pickupdt,
  6     trip_int_dropoffdt,
  7     trip_act_dropoffdt,
  8     veh_vin,
  9     driver_id,
 10     pickup_locn_id,
 11     dropoff_locn_id,
 12     lang_iso_code,
 13     off_id
 14 ) VALUES (
 15     15,
 16     10,
 17     TO_DATE('2024-08-04:16:00', 'YYYY-MM-DD:HH24:MI'),
 18     TO_DATE('2024-08-04:16:03', 'YYYY-MM-DD:HH24:MI'),
 19     TO_DATE('2024-08-04:16:05', 'YYYY-MM-DD:HH24:MI'),
```

Assignment 2 Feedback

```
20     TO_DATE('2024-08-04:16:09', 'YYYY-MM-DD:HH24:MI'),
21     '4T1BK3DB2BU891397',
22     2005,
23     117,
24     118,
25     'es',
26     9
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (
 2     trip_id,
 3     trip_nopassengers,
 4     trip_int_pickupdt,
 5     trip_act_pickupdt,
 6     trip_int_dropoffdt,
 7     trip_act_dropoffdt,
 8     veh_vin,
 9     driver_id,
10     pickup_locn_id,
11     dropoff_locn_id,
12     lang_iso_code,
13     off_id
14 ) VALUES (
15     16,
16     5,
17     TO_DATE('2024-08-04:18:50', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-08-04:18:52', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-08-04:19:00', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-08-04:19:03', 'YYYY-MM-DD:HH24:MI'),
21     '3VW1K7AJ8DM593363',
22     2015,
23     114,
24     119,
25     'pt',
26     11
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (
 2     trip_id,
 3     trip_nopassengers,
 4     trip_int_pickupdt,
 5     trip_act_pickupdt,
 6     trip_int_dropoffdt,
 7     trip_act_dropoffdt,
 8     veh_vin,
 9     driver_id,
10     pickup_locn_id,
11     dropoff_locn_id,
12     lang_iso_code,
13     off_id
```

Assignment 2 Feedback

```
14 ) VALUES (
15     17,
16     10,
17     TO_DATE('2024-08-05:07:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-08-05:07:06', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-08-05:09:30', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-08-05:09:40', 'YYYY-MM-DD:HH24:MI'),
21     'YV1952AS4D1408550',
22     2006,
23     113,
24     110,
25     'kk',
26     12
27 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
6     trip_int_dropoffdt,
7     trip_act_dropoffdt,
8     veh_vin,
9     driver_id,
10    pickup_locn_id,
11    dropoff_locn_id,
12    lang_iso_code,
13    off_id
14 ) VALUES (
15     18,
16     10,
17     TO_DATE('2024-08-05:15:00', 'YYYY-MM-DD:HH24:MI'),
18     TO_DATE('2024-08-05:14:55', 'YYYY-MM-DD:HH24:MI'),
19     TO_DATE('2024-08-05:18:25', 'YYYY-MM-DD:HH24:MI'),
20     TO_DATE('2024-08-05:18:22', 'YYYY-MM-DD:HH24:MI'),
21     'YV1952AS4D1408550',
22     2006,
23     110,
24     117,
25     'kk',
26     12
27 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
2     trip_id,
3     trip_nopassengers,
4     trip_int_pickupdt,
5     trip_act_pickupdt,
6     trip_int_dropoffdt,
7     trip_act_dropoffdt,
```

Assignment 2 Feedback

```
8      veh_vin,  
9      driver_id,  
10     pickup_locn_id,  
11     dropoff_locn_id,  
12     lang_iso_code,  
13     off_id  
14 ) VALUES (  
15     19,  
16     10,  
17     TO_DATE('2024-08-05:19:45', 'YYYY-MM-DD:HH24:MI'),  
18     TO_DATE('2024-08-05:19:50', 'YYYY-MM-DD:HH24:MI'),  
19     TO_DATE('2024-08-05:20:00', 'YYYY-MM-DD:HH24:MI'),  
20     TO_DATE('2024-08-05:20:06', 'YYYY-MM-DD:HH24:MI'),  
21     'YV1952AS4D1408550',  
22     2006,  
23     117,  
24     115,  
25     'kk',  
26     12  
27 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO trip (  
2      trip_id,  
3      trip_nopassengers,  
4      trip_int_pickupdt,  
5      trip_act_pickupdt,  
6      trip_int_dropoffdt,  
7      trip_act_dropoffdt,  
8      veh_vin,  
9      driver_id,  
10     pickup_locn_id,  
11     dropoff_locn_id,  
12     lang_iso_code,  
13     off_id  
14 ) VALUES (  
15     20,  
16     7,  
17     TO_DATE('2024-08-06:10:00', 'YYYY-MM-DD:HH24:MI'),  
18     TO_DATE('2024-08-06:10:00', 'YYYY-MM-DD:HH24:MI'),  
19     TO_DATE('2024-08-06:10:25', 'YYYY-MM-DD:HH24:MI'),  
20     TO_DATE('2024-08-06:10:25', 'YYYY-MM-DD:HH24:MI'),  
21     'WUARL48H57K684173',  
22     2001,  
23     113,  
24     109,  
25     'de',  
26     6  
27 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO trip (  
2      trip_id,  
3      trip_nopassengers,  
4      trip_int_pickupdt,  
5      trip_act_pickupdt,  
6      trip_int_dropoffdt,  
7      trip_act_dropoffdt,  
8      veh_vin,  
9      driver_id,  
10     pickup_locn_id,  
11     dropoff_locn_id,  
12     lang_iso_code,  
13     off_id  
14 ) VALUES (  
15     21,  
16     7,  
17     TO_DATE('2024-08-06:10:00', 'YYYY-MM-DD:HH24:MI'),  
18     TO_DATE('2024-08-06:10:00', 'YYYY-MM-DD:HH24:MI'),  
19     TO_DATE('2024-08-06:10:25', 'YYYY-MM-DD:HH24:MI'),  
20     TO_DATE('2024-08-06:10:25', 'YYYY-MM-DD:HH24:MI'),  
21     'WUARL48H57K684173',  
22     2001,  
23     113,  
24     109,  
25     'de',  
26     6  
27 );
```

Assignment 2 Feedback

```
2      trip_id,  
3      trip_nopassengers,  
4      trip_int_pickupdt,  
5      trip_act_pickupdt,  
6      trip_int_dropoffdt,  
7      trip_act_dropoffdt,  
8      veh_vin,  
9      driver_id,  
10     pickup_locn_id,  
11     dropoff_locn_id,  
12     lang_iso_code,  
13     off_id  
14 ) VALUES (  
15     21,  
16     6,  
17     TO_DATE('2024-08-07:11:00', 'YYYY-MM-DD:HH24:MI'),  
18     TO_DATE('2024-08-07:11:00', 'YYYY-MM-DD:HH24:MI'),  
19     TO_DATE('2024-08-07:11:20', 'YYYY-MM-DD:HH24:MI'),  
20     TO_DATE('2024-08-07:11:21', 'YYYY-MM-DD:HH24:MI'),  
21     '3GYFNAEY1BS255875',  
22     2011,  
23     112,  
24     111,  
25     'fr',  
26     4  
27 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO trip (  
2      trip_id,  
3      trip_nopassengers,  
4      trip_int_pickupdt,  
5      trip_act_pickupdt,  
6      trip_int_dropoffdt,  
7      trip_act_dropoffdt,  
8      veh_vin,  
9      driver_id,  
10     pickup_locn_id,  
11     dropoff_locn_id,  
12     lang_iso_code,  
13     off_id  
14 ) VALUES (  
15     22,  
16     17,  
17     TO_DATE('2024-08-08:15:00', 'YYYY-MM-DD:HH24:MI'),  
18     TO_DATE('2024-08-08:15:07', 'YYYY-MM-DD:HH24:MI'),  
19     TO_DATE('2024-08-08:15:25', 'YYYY-MM-DD:HH24:MI'),  
20     TO_DATE('2024-08-08:15:35', 'YYYY-MM-DD:HH24:MI'),  
21     '1G6KD54Y92U557711',  
22     2007,  
23     113,  
24     120,  
25     'en',  
26     1
```

Assignment 2 Feedback

```
27 );
```

```
1 row inserted.
```

```
SQL>
```

```
SQL> INSERT INTO trip (  
2     trip_id,  
3     trip_nopassengers,  
4     trip_int_pickupdt,  
5     trip_act_pickupdt,  
6     trip_int_dropoffdt,  
7     trip_act_dropoffdt,  
8     veh_vin,  
9     driver_id,  
10    pickup_locn_id,  
11    dropoff_locn_id,  
12    lang_iso_code,  
13    off_id  
14 ) VALUES (  
15     23,  
16     6,  
17     TO_DATE('2024-08-09:17:35', 'YYYY-MM-DD:HH24:MI'),  
18     TO_DATE('2024-08-09:17:38', 'YYYY-MM-DD:HH24:MI'),  
19     TO_DATE('2024-08-09:18:00', 'YYYY-MM-DD:HH24:MI'),  
20     TO_DATE('2024-08-09:18:05', 'YYYY-MM-DD:HH24:MI'),  
21     '1D4PU4GK7BW972165',  
22     2012,  
23     102,  
24     114,  
25     'ar',  
26     13  
27 );
```

```
1 row inserted.
```

```
SQL>
```

```
SQL> INSERT INTO trip (  
2     trip_id,  
3     trip_nopassengers,  
4     trip_int_pickupdt,  
5     trip_act_pickupdt,  
6     trip_int_dropoffdt,  
7     trip_act_dropoffdt,  
8     veh_vin,  
9     driver_id,  
10    pickup_locn_id,  
11    dropoff_locn_id,  
12    lang_iso_code,  
13    off_id  
14 ) VALUES (  
15     24,  
16     5,  
17     TO_DATE('2024-08-10:12:00', 'YYYY-MM-DD:HH24:MI'),  
18     TO_DATE('2024-08-10:12:02', 'YYYY-MM-DD:HH24:MI'),  
19     TO_DATE('2024-08-10:12:20', 'YYYY-MM-DD:HH24:MI'),  
20     TO_DATE('2024-08-10:12:25', 'YYYY-MM-DD:HH24:MI'),
```


Assignment 2 Feedback

```

21      '3VW1K7AJ8DM593363',
22      2010,
23      114,
24      117,
25      'ja',
26      7
27 );

```

1 row inserted.

```

SQL>
SQL> COMMIT;

```

Commit complete.

```

SQL>
SQL> set echo on
SQL> -- Check INSERT Count
SQL> -----
SQL> set echo off

```

TableLoaded	COUNT(*)
1. OFFICIAL Rows (10 required):	15
2. VEHICLE Rows (10 required):	15
3. TRIP Rows(20 required):	24

```

SQL> -- EXPLICIT checks
SQL> --
SQL> -- Check INSERT Data
SQL> -----
SQL> set echo off
SQL> -- OFFICIAL
SQL> set echo off

```

OFF_ID	OFF_GIVEN	OFF_FAMILY	CR_IOC_CODE	OFF_CDM
5	James	Smith	AUS	
11	Ana	Costa	BRA	
10	Olivia		CAN	
8	Wei	Zhang	CHN	
13	Ahmed	Hassan	EGY	
9	Alejandro		ESP	
3	Pierre	Martin	FRA	
4	Sophie	Dubois	FRA	3
6	Laura	Schmidt	GER	
7	Yui	Suzuki	JPN	
12		Batyrova	KAZ	
14	Oluwaseun	Okafor	NGR	
15	Chioma	Adeyemi	NGR	14
1	Emily	Williams	USA	
2	Michael	Johnson	USA	1

15 rows selected.

```

SQL> -- VEHICLE

```

Assignment 2 Feedback

SQL> set echo off

VEH_VIN	VEH_REGO	VEH_YEAR	VEH_CURR_ODO	VEH_NOPASSENGERS	VM_MODEL_ID
4T1BK3DB2BU891397	EI703NU	2024	804	12	1
YV1952AS4D1408550	EN900PD	2024	691	12	1
1G6KD54Y92U557711	FE566BN	2023	1216	20	2
1G6DL67A190421039	JR090OB	2024	620	54	3
WAUMR44E85N069305	UV023RT	2024	901	45	3
JTEBW3EH8A2753607	CP647DB	2023	2562	96	4
1G6KE54Y11U434240	EI513NS	2023	1488	57	5
5UXFG8C50BL686231	IU820NP	2023	1442	57	5
1D4PU4GK7BW972165	SW665ZX	2023	1101	6	6
WUARL48H57K684173	TS405GO	2024	764	8	6
1C4SDHCT9FC613386	EN025RJ	2024	707	6	7
3VW1K7AJ8DM593363	JS747DD	2023	1561	6	7
3GYFNAEY1BS255875	SO085MR	2023	1574	8	8
SCBLC31E41C410996	EE827MR	2024	465	12	9
WAUD2AFD1EN836662	OK876TC	2023	1000	12	9

15 rows selected.

SQL> -- TRIP

SQL> set echo off

TRIP_ID	TRIP_NOPASSENGERS	INTENDED_PICKUPDT	ACTUAL_PICKUPDT	INTENDED_DROPOFFDT	ACTUAL_DROPOFFDT	VEH_VIN	D
RIVER_ID	PICKUP_LOCN_ID	DROPOFF_LOCN_ID	LANG_ISO_CODE	OFF_ID			
2011	1	50	27/07/2024 07:00	27/07/2024 07:03	27/07/2024 09:25	27/07/2024 09:40	1G6DL67A190421039
2007	2	50	27/07/2024 17:00	27/07/2024 17:01	27/07/2024 19:40	27/07/2024 19:52	1G6DL67A190421039
2010	3	6	28/07/2024 08:00	28/07/2024 07:57	28/07/2024 08:30	28/07/2024 08:28	1D4PU4GK7BW972165
2003	4	10	28/07/2024 12:00	28/07/2024 12:07	28/07/2024 12:20	28/07/2024 12:31	SCBLC31E41C410996
2006	5	10	28/07/2024 12:00	28/07/2024 12:05	28/07/2024 12:20	28/07/2024 12:30	4T1BK3DB2BU891397
2004	6	80	30/07/2024 15:40	30/07/2024 15:42	30/07/2024 17:00	30/07/2024 17:04	JTEBW3EH8A2753607
2014	7	10	30/07/2024 16:45	30/07/2024 16:45	30/07/2024 18:00		4T1BK3DB2BU891397
2014	8	10	30/07/2024 22:30		30/07/2024 23:30		4T1BK3DB2BU891397
2009	9	25	31/07/2024 07:20	31/07/2024 07:30	31/07/2024 08:00	31/07/2024 08:13	WAUMR44E85N069305
2002	10	25	31/07/2024 17:30	31/07/2024 17:32	31/07/2024 18:00	31/07/2024 18:06	WAUMR44E85N069305
2012	11	4	01/08/2024 14:00	01/08/2024 14:01	01/08/2024 14:25	01/08/2024 14:28	1C4SDHCT9FC613386
2008	12	12	02/08/2024 12:00	02/08/2024 12:00	02/08/2024 12:35	02/08/2024 12:33	WAUD2AFD1EN836662
2001	13	5	02/08/2024 12:00	02/08/2024 12:00	02/08/2024 12:35	02/08/2024 12:30	3VW1K7AJ8DM593363
	14	48	03/08/2024 17:05	03/08/2024 17:10	03/08/2024 17:30	03/08/2024 17:36	5UXFG8C50BL686231

Assignment 2 Feedback

2013	103	113 zh	8				
15		10 04/08/2024 16:00	04/08/2024 16:03	04/08/2024 16:05	04/08/2024 16:09	4T1BK3DB2BU891397	
2005	117	118 es	9				
16		5 04/08/2024 18:50	04/08/2024 18:52	04/08/2024 19:00	04/08/2024 19:03	3VW1K7AJ8DM593363	
2015	114	119 pt	11				
17		10 05/08/2024 07:00	05/08/2024 07:06	05/08/2024 09:30	05/08/2024 09:40	YV1952AS4D1408550	
2006	113	110 kk	12				
18		10 05/08/2024 15:00	05/08/2024 14:55	05/08/2024 18:25	05/08/2024 18:22	YV1952AS4D1408550	
2006	110	117 kk	12				
19		10 05/08/2024 19:45	05/08/2024 19:50	05/08/2024 20:00	05/08/2024 20:06	YV1952AS4D1408550	
2006	117	115 kk	12				
20		7 06/08/2024 10:00	06/08/2024 10:00	06/08/2024 10:25	06/08/2024 10:25	WUARL48H57K684173	
2001	113	109 de	6				
21		6 07/08/2024 11:00	07/08/2024 11:00	07/08/2024 11:20	07/08/2024 11:21	3GYFNAEY1BS255875	
2011	112	111 fr	4				
22		17 08/08/2024 15:00	08/08/2024 15:07	08/08/2024 15:25	08/08/2024 15:35	1G6KD54Y92U557711	
2007	113	120 en	1				
23		6 09/08/2024 17:35	09/08/2024 17:38	09/08/2024 18:00	09/08/2024 18:05	1D4PU4GK7BW972165	
2012	102	114 ar	13				
24		5 10/08/2024 12:00	10/08/2024 12:02	10/08/2024 12:20	10/08/2024 12:25	3VW1K7AJ8DM593363	
2010	114	117 ja	7				

24 rows selected.

```
SQL> -- IMPLICIT checks
SQL> set echo off
```

OFFICIAL_and_VEHICLE_Requirements

Official IOC Countries/Regions count: Met -> at least 4 IOC Countries/Regions
 Vehicle model count: Met -> at least 3 vehicle models

```
SQL> -- OFFICIAL
SQL> -- Each country must have one CDM
SQL> set echo off
```

OFF_IOC_CODE	NO_OF_CDM	IOC_CDM_CHECK
--------------	-----------	---------------

AUS	1	Valid number of CDM
BRA	1	Valid number of CDM
CAN	1	Valid number of CDM
CHN	1	Valid number of CDM
EGY	1	Valid number of CDM
ESP	1	Valid number of CDM
FRA	1	Valid number of CDM
GER	1	Valid number of CDM
JPN	1	Valid number of CDM
KAZ	1	Valid number of CDM
NGR	1	Valid number of CDM
USA	1	Valid number of CDM

12 rows selected.

```
SQL> -- OFFICIAL
SQL> -- CDM does not have a manager
SQL> -- Official's manager must be from the same country
```

Assignment 2 Feedback

```
SQL>
SQL> set echo off
```

OFF_ID	OFF_IOC_CODE	OFF_CDM	CDM_IOC_CODE	CDM_CHECK
2	USA	1	USA	Valid manager
4	FRA	3	FRA	Valid manager
15	NGR	14	NGR	Valid manager

```
SQL> -- TRIP requirements
SQL> set echo off
```

TRIP_Requirement

```
Vehicle count: Met -> at least 5 vehicles used in more than one trip
Official count: Met -> at least 5 officials booked more than one trip
Driver count: Met -> at least 5 drivers
Language count: Met -> at least 5 languages
Parallel trip count: Met -> at least 2 parallel trips
```

```
SQL> -- TRIP
SQL> -- Checking trip dates within required range 20th July 2024 and 15th August 2024.
SQL> set echo off
```

DateType OutsideDateRange

Trip Date Time 0

```
SQL> -- Trips
SQL> -- Checking trip drop-off time is after the pick-up time, and sensible trip duration
SQL>
SQL> set echo off
```

TRIP_ID	INTENDED_PICKUPDT	ACTUAL_PICKUPDT	INTENDED_DROPOFFDT	ACTUAL_DROPOFFDT	DURATION	TIME_CHECK
1	27/07/2024 07:00	27/07/2024 07:03	27/07/2024 09:25	27/07/2024 09:40	2.4	Valid pick-up and drop-off times
2	27/07/2024 17:00	27/07/2024 17:01	27/07/2024 19:40	27/07/2024 19:52	2.7	Valid pick-up and drop-off times
3	28/07/2024 08:00	28/07/2024 07:57	28/07/2024 08:30	28/07/2024 08:28	0.5	Valid pick-up and drop-off times
4	28/07/2024 12:00	28/07/2024 12:07	28/07/2024 12:20	28/07/2024 12:31	0.3	Valid pick-up and drop-off times
5	28/07/2024 12:00	28/07/2024 12:05	28/07/2024 12:20	28/07/2024 12:30	0.3	Valid pick-up and drop-off times
6	30/07/2024 15:40	30/07/2024 15:42	30/07/2024 17:00	30/07/2024 17:04	1.3	Valid pick-up and drop-off times
7	30/07/2024 16:45	30/07/2024 16:45	30/07/2024 18:00		1.3	Valid pick-up and drop-off times
8	30/07/2024 22:30		30/07/2024 23:30		1.0	Valid pick-up and drop-off times
9	31/07/2024 07:20	31/07/2024 07:30	31/07/2024 08:00	31/07/2024 08:13	0.7	Valid pick-up and drop-off times
10	31/07/2024 17:30	31/07/2024 17:32	31/07/2024 18:00	31/07/2024 18:06	0.5	Valid pick-up and drop-off times
11	01/08/2024 14:00	01/08/2024 14:01	01/08/2024 14:25	01/08/2024 14:28	0.4	Valid pick-up and drop-off times
12	02/08/2024 12:00	02/08/2024 12:00	02/08/2024 12:35	02/08/2024 12:33	0.6	Valid pick-up and drop-off times
13	02/08/2024 12:00	02/08/2024 12:00	02/08/2024 12:35	02/08/2024 12:30	0.6	Valid pick-up and drop-off times
14	03/08/2024 17:05	03/08/2024 17:10	03/08/2024 17:30	03/08/2024 17:36	0.4	Valid pick-up and drop-off times
15	04/08/2024 16:00	04/08/2024 16:03	04/08/2024 16:05	04/08/2024 16:09	0.1	Valid pick-up and drop-off times
16	04/08/2024 18:50	04/08/2024 18:52	04/08/2024 19:00	04/08/2024 19:03	0.2	Valid pick-up and drop-off times
17	05/08/2024 07:00	05/08/2024 07:06	05/08/2024 09:30	05/08/2024 09:40	2.5	Valid pick-up and drop-off times
18	05/08/2024 15:00	05/08/2024 14:55	05/08/2024 18:25	05/08/2024 18:22	3.4	Valid pick-up and drop-off times
19	05/08/2024 19:45	05/08/2024 19:50	05/08/2024 20:00	05/08/2024 20:06	0.3	Valid pick-up and drop-off times
20	06/08/2024 10:00	06/08/2024 10:00	06/08/2024 10:25	06/08/2024 10:25	0.4	Valid pick-up and drop-off times
21	07/08/2024 11:00	07/08/2024 11:00	07/08/2024 11:20	07/08/2024 11:21	0.3	Valid pick-up and drop-off times

Assignment 2 Feedback

22 08/08/2024 15:00	08/08/2024 15:07	08/08/2024 15:25	08/08/2024 15:35	0.4	Valid pick-up and drop-off times
23 09/08/2024 17:35	09/08/2024 17:38	09/08/2024 18:00	09/08/2024 18:05	0.4	Valid pick-up and drop-off times
24 10/08/2024 12:00	10/08/2024 12:02	10/08/2024 12:20	10/08/2024 12:25	0.3	Valid pick-up and drop-off times

24 rows selected.

SQL> -- Trips

SQL> -- Checking vehicle must accommodate the requested number of passengers

SQL>

SQL> set echo off

TRIP_ID	TRIP_NOPASSENGERS	VEH_NOPASSENGERS	PASSENGER_CHECK
1	50	54	Valid number of passengers
2	50	54	Valid number of passengers
3	6	6	Valid number of passengers
4	10	12	Valid number of passengers
5	10	12	Valid number of passengers
6	80	96	Valid number of passengers
7	10	12	Valid number of passengers
8	10	12	Valid number of passengers
9	25	45	Valid number of passengers
10	25	45	Valid number of passengers
11	4	6	Valid number of passengers
12	12	12	Valid number of passengers
13	5	6	Valid number of passengers
14	48	57	Valid number of passengers
15	10	12	Valid number of passengers
16	5	6	Valid number of passengers
17	10	12	Valid number of passengers
18	10	12	Valid number of passengers
19	10	12	Valid number of passengers
20	7	8	Valid number of passengers
21	6	8	Valid number of passengers
22	17	20	Valid number of passengers
23	6	6	Valid number of passengers
24	5	6	Valid number of passengers

24 rows selected.

SQL> -- PKs used - must be under 100

SQL> set echo off

TABLE_NAME	PK_ABOVE_100
OFFICIAL	0
TRIP	0

TASK 3 DML Marking

Assignment 2 Feedback

```
SQL> ----- Student Data replaced with marking data -----
SQL> ----- Task 3 DML -----
SQL> @T3-pat-dml.sql
SQL> /*****PLEASE ENTER YOUR DETAILS BELOW*****/
SQL> --T3-pat-dml.sql
SQL>
SQL> --Student ID:
SQL> --Student Name: Sample Solution
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL> */
SQL>
SQL> /*(a)*/
SQL> DROP SEQUENCE official_seq;

Error starting at line : 15 File @ /2024S2/Assignments/Ass2/SampleSolution/T3-pat-dml.sql
In command -
DROP SEQUENCE official_seq
Error report -
ORA-02289: sequence does not exist

https://docs.oracle.com/error-help/db/ora-02289/02289.00000 - "sequence does not exist"
*Cause:      The specified sequence does not exist, or the user does
              not have the required privilege to perform this operation.
*Action:     Make sure the sequence name is correct, and that you have
              the right to perform the desired operation on this sequence.
SQL>
SQL> CREATE SEQUENCE official_seq START WITH 100 INCREMENT BY 10;

Sequence OFFICIAL_SEQ created.

SQL>
SQL> DROP SEQUENCE trip_seq;

Error starting at line : 19 File @ /2024S2/Assignments/Ass2/SampleSolution/T3-pat-dml.sql
In command -
DROP SEQUENCE trip_seq
Error report -
ORA-02289: sequence does not exist

https://docs.oracle.com/error-help/db/ora-02289/02289.00000 - "sequence does not exist"
*Cause:      The specified sequence does not exist, or the user does
              not have the required privilege to perform this operation.
*Action:     Make sure the sequence name is correct, and that you have
              the right to perform the desired operation on this sequence.
SQL>
SQL> CREATE SEQUENCE trip_seq START WITH 100 INCREMENT BY 10;

Sequence TRIP_SEQ created.

SQL>
SQL> /*(b)*/
```

Assignment 2 Feedback

```
SQL> INSERT INTO official (
  2     off_id,
  3     off_given,
  4     off_family,
  5     cr_ioc_code,
  6     off_cdm
  7 ) VALUES (
  8     official_seq.NEXTVAL,
  9     'Franklin',
10     'Gateau',
11     (SELECT cr_ioc_code
12     FROM country_region
13     WHERE upper(cr_name) = upper('St Vincent and the Grenadines')),
14     NULL
15 );
```

1 row inserted.

```
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL> INSERT INTO vehicle (
  2     veh_vin,
  3     veh_rego,
  4     veh_year,
  5     veh_curr_odo,
  6     veh_nopassengers,
  7     vm_model_id
  8 ) VALUES (
  9     '1C4SDHCT9FC614231',
10     'EN852CD',
11     TO_DATE('2023', 'YYYY'),
12     2359,
13     6,
14     (SELECT vm_model_id
15     FROM vehicle_model
16     NATURAL JOIN manufacturer
17     WHERE upper(man_name) = 'TOYOTA'
18     AND upper(vm_model) = 'ALPHARD')
19 );
```

1 row inserted.

```
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL> /*(c)*/
SQL> INSERT INTO trip (
  2     trip_id,
  3     trip_nopassengers,
```


Assignment 2 Feedback

```
4      trip_int_pickupdt,
5      trip_int_dropoffdt,
6      veh_vin,
7      driver_id,
8      pickup_locn_id,
9      dropoff_locn_id,
10     lang_iso_code,
11     off_id
12 ) VALUES (
13     trip_seq.nextval,
14     6,
15     TO_DATE('2024-07-30 12:30 PM', 'YYYY-MM-DD HH:MI PM'),
16     TO_DATE('2024-07-30 12:30 PM', 'YYYY-MM-DD HH:MI PM') + (1/24) + (30/60/24),
17     '1C4SDHCT9FC614231',
18     (select DRIVER_ID from driver where upper(DRIVER_LICENCE) = upper('55052a543210')),
19     (select LOCN_ID from location where upper(locn_name) = upper('Olympic and Paralympic Village')),
20     (select LOCN_ID from location where upper(locn_name) = upper('Porte de la Chapelle Arena')),
21     (select LANG_ISO_CODE from language where upper(lang_name) = upper('English')),
22     (select off_id from OFFICIAL natural join COUNTRY_REGION WHERE upper(cr_name) = upper('St Vincent and the Grenadines'))
23 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO trip (
2      trip_id,
3      trip_nopassengers,
4      trip_int_pickupdt,
5      trip_int_dropoffdt,
6      veh_vin,
7      driver_id,
8      pickup_locn_id,
9      dropoff_locn_id,
10     lang_iso_code,
11     off_id
12 ) VALUES (
13     trip_seq.nextval,
14     6,
15     TO_DATE('2024-07-30 08:00 PM', 'YYYY-MM-DD HH:MI PM'),
16     TO_DATE('2024-07-30 08:00 PM', 'YYYY-MM-DD HH:MI PM') + (1/24) + (15/60/24),
17     '1C4SDHCT9FC614231',
18     (select DRIVER_ID from driver where upper(DRIVER_LICENCE) = upper('55052a543210')),
19     (select LOCN_ID from location where upper(locn_name) = upper('Porte de la Chapelle Arena')),
20     (select LOCN_ID from location where upper(locn_name) = upper('Olympic and Paralympic Village')),
21     (select LANG_ISO_CODE from language where upper(lang_name) = upper('English')),
22     (select off_id from OFFICIAL natural join COUNTRY_REGION WHERE upper(cr_name) = upper('St Vincent and the Grenadines'))
23 );
```

1 row inserted.

```
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
```

Assignment 2 Feedback

```
SQL> /*(d)*/
SQL>
SQL> UPDATE TRIP
2  set TRIP_ACT_PICKUPDT = TO_DATE('2024-07-30 12:30 PM', 'YYYY-MM-DD HH:MI PM'),
3  TRIP_ACT_DROPOFFDT = TO_DATE('2024-07-30 12:30 PM', 'YYYY-MM-DD HH:MI PM') + (1/24) + (45/60/24)
4  WHERE
5      driver_id = (select DRIVER_ID from driver where upper(DRIVER_LICENCE) = upper('55052a543210'))
6      AND
7      TRIP_INT_PICKUPDT = TO_DATE('2024-07-30 12:30 PM', 'YYYY-MM-DD HH:MI PM');
```

1 row updated.

```
SQL> -- There are many combinations that can be used here:
SQL> -- veh_vin + trip_int_pickupdt or veh_vin + trip_int_dropoffdt or
SQL> -- driver_id + trip_int_pickupdt or driver_id + trip_int_dropoffdt
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL> DELETE FROM TRIP
2  WHERE
3      driver_id = (select DRIVER_ID from driver where upper(DRIVER_LICENCE) = upper('55052a543210'))
4      AND
5      TRIP_INT_PICKUPDT > TO_DATE('2024-07-30 05:00 PM', 'YYYY-MM-DD HH:MI PM')
6      AND
7      TRIP_INT_PICKUPDT < TO_DATE('2024-07-30 11:59 PM', 'YYYY-MM-DD HH:MI PM')
8      AND
9      TRIP_ACT_PICKUPDT is NULL;
```

2 rows deleted.

```
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL> --Check the new record in OFFICIAL table
SQL> set echo off
```

OFF_ID	OFF_GIVEN	OFF_FAMILY	CR_IOC_CODE	OFF_CDM
100	Franklin	Gateau	VIN	

```
SQL> --Check the new record in VEHICLE table
SQL> set echo off
```

VEH_VIN	VEH_REGO	VEH_YEAR	VEH_CURR_ODO	VEH_NOPASSENGERS	VM_MODEL_ID
1C4SDHCT9FC614231	EN852CD	2023	2359	6	7

```
SQL> --Check Claire's trips in TRIP table
SQL> set echo off
```

Assignment 2 Feedback

TRIP_ID RIVER_ID	TRIP_NOPASSENGERS PICKUP_LOCN_ID	INTENDED_PICKUPDT DROPOFF_LOCN_ID	ACTUAL_PICKUPDT LANG_ISO_CODE	INTENDED_DROPOFFDT OFF_ID	ACTUAL_DROPOFFDT	VEH_VIN	D
100 2014	113	6 30/07/2024 12:30 111 en	30/07/2024 12:30	100	30/07/2024 14:00	1C4SDHCT9FC614231	
7 2014	120	10 30/07/2024 16:45 114 en	30/07/2024 16:45	5	30/07/2024 18:00	4T1BK3DB2BU891397	

TASK 4 Modifications Marking

Assignment 2 Feedback

```
SQL> ----- Task 4 ALTER -----
SQL> @T4-pat-mods.sql
SQL> /*****PLEASE ENTER YOUR DETAILS BELOW*****/
SQL> --T4-pat-mods.sql
SQL>
SQL> --Student ID:
SQL> --Student Name: Sample Solution
SQL>
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL> */
SQL>
SQL> /*(a)*/
SQL> ALTER TABLE official
  2      ADD (
  3          off_role CHAR(1) DEFAULT 'G' NOT NULL,
  4          CONSTRAINT chk_off_role CHECK (off_role IN ('G', 'A', 'H', 'C', 'P'))
  5      );
```

Table OFFICIAL altered.

```
SQL>
SQL> COMMENT ON COLUMN official.off_role
  2  IS 'Role of the official. G: General, A:Administrator, H:Head Coach, C:Coach, P: Physician';
```

Comment created.

```
SQL>
SQL> UPDATE official
  2  SET
  3      off_role = 'A'
  4  WHERE
  5      off_cdm IS NULL;
```

13 rows updated.

```
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL> desc official;
```

Name	Null?	Type
OFF_ID	NOT NULL	NUMBER(4)
OFF_GIVEN		VARCHAR2(30)
OFF_FAMILY		VARCHAR2(30)
CR_IOC_CODE	NOT NULL	CHAR(3)
OFF_CDM		NUMBER(4)
OFF_ROLE	NOT NULL	CHAR(1)

Assignment 2 Feedback

```
SQL>
SQL> SELECT
  2   *
  3 FROM
  4   official;
```

OFF_ID	OFF_GIVEN	OFF_FAMILY	CR_IOC_CODE	OFF_CDM	OFF_ROLE
1	Emily	Williams	USA		A
2	Michael	Johnson	USA	1	G
3	Pierre	Martin	FRA		A
4	Sophie	Dubois	FRA	3	G
5	James	Smith	AUS		A
6	Laura	Schmidt	GER		A
7	Yui	Suzuki	JPN		A
8	Wei	Zhang	CHN		A
9	Alejandro		ESP		A
10	Olivia		CAN		A
11	Ana	Costa	BRA		A
12		Batyrova	KAZ		A
13	Ahmed	Hassan	EGY		A
14	Oluwaseun	Okafor	NGR		A
15	Chioma	Adeyemi	NGR	14	G
100	Franklin	Gateau	VIN		A

16 rows selected.

```
SQL>
SQL> /*(b)*/
SQL>
SQL> DROP TABLE category CASCADE CONSTRAINTS PURGE;
```

Error starting at line : 42 File @ /2024S2/Assignments/Ass2/SampleSolution/T4-pat-mods.sql
In command -
DROP TABLE category CASCADE CONSTRAINTS PURGE
Error report -
ORA-00942: table or view does not exist

<https://docs.oracle.com/error-help/db/ora-00942/00942.00000> - "table or view%s does not exist"

*Cause: The specified table or view did not exist, or a synonym pointed to a table or view that did not exist.
To find existing user tables and views, query the ALL_TABLES and ALL_VIEWS data dictionary views. Certain privileges may be required to access the table. If an application returned this message, then the table that the application tried to access did not exist in the database, or the application did not have access to it.

*Action: Check each of the following
- The spelling of the table or view name is correct.
- The referenced table or view name does exist.
- The synonym points to an existing table or view.

```
SQL>
SQL> DROP TABLE complaint CASCADE CONSTRAINTS PURGE;
```

Error starting at line : 44 File @ /2024S2/Assignments/Ass2/SampleSolution/T4-pat-mods.sql
In command -

Assignment 2 Feedback

DROP TABLE complaint CASCADE CONSTRAINTS PURGE
Error report -
ORA-00942: table or view does not exist

<https://docs.oracle.com/error-help/db/ora-00942/00942.00000> - "table or view%s does not exist"

*Cause: The specified table or view did not exist, or a synonym pointed to a table or view that did not exist. To find existing user tables and views, query the ALL_TABLES and ALL_VIEWS data dictionary views. Certain privileges may be required to access the table. If an application returned this message, then the table that the application tried to access did not exist in the database, or the application did not have access to it.

*Action: Check each of the following

- The spelling of the table or view name is correct.
- The referenced table or view name does exist.
- The synonym points to an existing table or view.

```
SQL>
SQL> CREATE TABLE category (
  2     cat_id NUMBER(2) NOT NULL,
  3     cat_name VARCHAR2(20) NOT NULL,
  4     cat_dempoints NUMBER(2) NOT NULL
  5 );
```

Table CATEGORY created.

```
SQL>
SQL> COMMENT ON COLUMN category.cat_id
  2 IS 'Category identifier';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN category.cat_name
  2 IS 'Category name';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN category.cat_dempoints
  2 IS 'Demerit points of the category';
```

Comment created.

```
SQL>
SQL>
SQL> ALTER TABLE category
  2     ADD CONSTRAINT category_pk PRIMARY KEY (
  3         cat_id
  4     );
```

Table CATEGORY altered.

```
SQL>
SQL> INSERT INTO category VALUES(
  2     1,
```

Assignment 2 Feedback

```
3      'Late arrival',
4      1
5  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO category VALUES(
2      2,
3      'Rude behaviour',
4      2
5  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO category VALUES(
2      3,
3      'Poor driving',
4      2
5  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO category VALUES(
2      4,
3      'Failing to assist',
4      1
5  );
```

1 row inserted.

```
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL>
SQL> CREATE TABLE complaint (
2      complaint_id NUMBER(4) NOT NULL,
3      complaint_datetime DATE NOT NULL,
4      complaint_comment VARCHAR2(200) NOT NULL,
5      complaint_valid CHAR(1),
6      trip_id NUMBER(4) NOT NULL,
7      cat_id NUMBER(2) NOT NULL
8  );
```

Table COMPLAINT created.

```
SQL>
SQL> COMMENT ON COLUMN complaint.complaint_id
2  IS 'Complaint identifier';
```


Assignment 2 Feedback

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN complaint.complaint_datetime
      2 IS 'Complaint date and time';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN complaint.complaint_comment
      2 IS 'Complaint comment';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN complaint.complaint_valid
      2 IS 'Validity of the complaint Y = Yes, N = No';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN complaint.trip_id
      2 IS 'Trip identifier';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN complaint.cat_id
      2 IS 'Category identifier';
```

Comment created.

```
SQL>
SQL> ALTER TABLE complaint
      2      ADD CONSTRAINT complaint_pk PRIMARY KEY (
      3          complaint_id
      4      );
```

Table COMPLAINT altered.

```
SQL>
SQL> ALTER TABLE complaint
      2      ADD CONSTRAINT complaint_uq UNIQUE (
      3          trip_id, complaint_datetime
      4      );
```

Table COMPLAINT altered.

```
SQL>
SQL> ALTER TABLE complaint
      2      ADD CONSTRAINT chk_complaint_valid CHECK (
      3          complaint_valid IN ('Y', 'N')
      4      );
```

Table COMPLAINT altered.

Assignment 2 Feedback

```
SQL>
SQL> ALTER TABLE complaint
  2     ADD CONSTRAINT trip_complaint_fk FOREIGN KEY (
  3         trip_id
  4     )
  5     REFERENCES trip (
  6         trip_id
  7     );
```

Table COMPLAINT altered.

```
SQL>
SQL> ALTER TABLE complaint
  2     ADD CONSTRAINT category_complaint_fk FOREIGN KEY (
  3         cat_id
  4     )
  5     REFERENCES category (
  6         cat_id
  7     );
```

Table COMPLAINT altered.

```
SQL>
SQL> desc category;
```

Name	Null?	Type
CAT_ID	NOT NULL	NUMBER(2)
CAT_NAME	NOT NULL	VARCHAR2(20)
CAT_DEMPOINTS	NOT NULL	NUMBER(2)

```
SQL>
SQL> SELECT
  2     *
  3 FROM
  4     category;
```

CAT_ID	CAT_NAME	CAT_DEMPOINTS
1	Late arrival	1
2	Rude behaviour	2
3	Poor driving	2
4	Failing to assist	1

```
SQL>
SQL> desc complaint;
```

Name	Null?	Type
COMPLAINT_ID	NOT NULL	NUMBER(4)
COMPLAINT_DATETIME	NOT NULL	DATE
COMPLAINT_COMMENT	NOT NULL	VARCHAR2(200)
COMPLAINT_VALID		CHAR(1)
TRIP_ID	NOT NULL	NUMBER(4)
CAT_ID	NOT NULL	NUMBER(2)

```
SQL>
SQL> SELECT
```

Assignment 2 Feedback

```
2      *
3  FROM
4      complaint;
```

no rows selected

SQL>

SQL> set echo off

SQL> -- Check OFFICIAL table

SQL> set echo off

OFF_ID	OFF_GIVEN	OFF_FAMILY	CR_IOC_CODE	OFF_CDM	OFF_ROLE
5	James	Smith	AUS		A
11	Ana	Costa	BRA		A
10	Olivia		CAN		A
8	Wei	Zhang	CHN		A
13	Ahmed	Hassan	EGY		A
9	Alejandro		ESP		A
3	Pierre	Martin	FRA		A
4	Sophie	Dubois	FRA	3	G
6	Laura	Schmidt	GER		A
7	Yui	Suzuki	JPN		A
12		Batyrova	KAZ		A
14	Oluwaseun	Okafor	NGR		A
15	Chioma	Adeyemi	NGR	14	G
1	Emily	Williams	USA		A
2	Michael	Johnson	USA	1	G
100	Franklin	Gateau	VIN		A

16 rows selected.

TASK 5 SQL Queries Marking

Assignment 2 Feedback

```

SQL> ----- Task 5 SQL SELECT -----
SQL> set echo off
SQL> @T5-pat-select.sql
SQL> /*****PLEASE ENTER YOUR DETAILS BELOW*****/
SQL> --T5-pat-select.sql
SQL>
SQL> --Student ID:
SQL> --Student Name: Sample Solution
SQL>
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL>
SQL> /* (a) */
SQL> -- PLEASE PLACE REQUIRED SQL SELECT STATEMENT FOR THIS PART HERE
SQL> -- ENSURE that your query is formatted and has a semicolon
SQL> -- (;) at the end of this answer
SQL>
SQL> SELECT
2      locn_id,
3      locn_name,
4      locn_address,
5      locntype_description,
6      count(trip_id)          AS "PICKUP/DROPOFF_COUNT"
7  FROM
8      location
9      NATURAL JOIN location_type
10     LEFT OUTER JOIN trip
11     ON ( location.locn_id = trip.dropoff_locn_id
12         OR location.locn_id = trip.pickup_locn_id )
13     AND ( trip_act_pickupdt IS NOT NULL
14         AND trip_act_dropoffdt IS NOT NULL)
15  GROUP BY
16     locn_id,
17     locn_name,
18     locn_address,
19     locntype_description
20  ORDER BY
21     count(trip_id) DESC,
22     locn_id;

```

LOCN_ID	LOCN_NAME		LOCN_ADDRESS
LOCNTYPE_DESCRIPTION	PICKUP/DROPOFF_COUNT		
113 Olympic and Paralympic village	9		D1, 93200 Saint-Denis, France
114 Champions Park	5		75116 Paris, France
110 Pierre Mauroy Stadium	4		261 Bd de Tournai, 59650 Villeneuve-d'Ascq, France

Assignment 2 Feedback

117 Tuileries Garden		75001 Paris, France
Tourist attraction	4	
120 The Basilica of the Sacred Heart of Paris		35 Rue du Chevalier de la Barre, 75018 Paris, France
Tourist attraction	4	
115 Eiffel Tower		Av. Gustave Eiffel, 75007 Paris, France
Tourist attraction	3	
105 South Paris Arena		1 Pl. de la Prte de Versailles, 75015 Paris, France
Arena	2	
107 North Paris Arena		Hall 8, 82 Av. des Nations, 93420 Villepinte, France
Arena	2	
111 Porte de La Chapelle Arena		56 Bd Ney, 75018 Paris, France
Arena	2	
112 Roland Garros Stadium		2 Av. Gordon Bennett, 75016 Paris, France
Stadium	2	
121 Saint-Quentin-en-Yvelines Velodrome		1 Rue Laurent Fignon, Pl. de la Paix Celeste, 78180 Montigny-le-Bretonneux, France
Stadium	2	
102 Bercy Arena		8 Bd de Bercy, 75012 Paris, France
Arena	1	
103 Champ de Mars Arena		2 Pl. Joffre, 75007 Paris, France
Arena	1	
104 Eiffel Tower Stadium		Pl. Jacques Rueff, 75007 Paris, France
Stadium	1	
109 Paris La Defense Arena		99 Jard. de l'Arche, 92000 Nanterre, France
Arena	1	
116 Louvre Museum		75001 Paris, France
Tourist attraction	1	
118 Sainte-Chapelle		10 Bd du Palais, 75001 Paris, France
Tourist attraction	1	
119 Arc de Triomphe		Pl. Charles de Gaulle, 75008 Paris, France
Tourist attraction	1	
101 Bordeaux Stadium		Cr Jules Ladoumeque, 33300 Bordeaux, France
Stadium	0	
106 La Beaujoire Stadium		333 Rte de Saint-Joseph, 44300 Nantes, France
Stadium	0	
108 Parc des Princes		24 Rue du Commandant Guilbaud, 75016 Paris, France
Stadium	0	

21 rows selected.

```

SQL>
SQL>
SQL> /* (b) */
SQL> -- PLEASE PLACE REQUIRED SQL SELECT STATEMENT FOR THIS PART HERE
SQL> -- ENSURE that your query is formatted and has a semicolon
SQL> -- (;) at the end of this answer
SQL>
SQL> SELECT
2     driver_id,
3     trim(driver_given
4         ||
5         driver_family) AS fullname,
6     lpad(ltrim(to_char((SUM(trip_act_dropoffdt - trip_act_pickupdt) * 45.42 * 24), '$999.99')),20) AS total_period_payment
7 FROM
8     trip
9     NATURAL JOIN driver
10 WHERE

```

Assignment 2 Feedback

```

11      trip_act_dropoffdt between TO_DATE('01-Aug-2024 00:00:00', 'dd-Mon-yyyy hh24:mi:ss') and
12      TO_DATE('07-Aug-2024 23:59:59', 'dd-Mon-yyyy hh24:mi:ss')
13 GROUP BY
14     driver_id,
15     driver_given,
16     driver_family
17 UNION
18 SELECT
19     driver_id,
20     trim(driver_given
21     || ' '
22     || driver_family),
23     'No Trips'
24 FROM
25     driver
26 WHERE
27     driver_id NOT IN (
28         SELECT
29             driver_id
30         FROM
31             trip
32         WHERE
33             trip_act_dropoffdt between TO_DATE('01-Aug-2024 00:00:00', 'dd-Mon-yyyy hh24:mi:ss') and
34             TO_DATE('07-Aug-2024 23:59:59', 'dd-Mon-yyyy hh24:mi:ss'))
35 ORDER BY
36     driver_id;

```

DRIVER_ID	FULLNAME	TOTAL_PERIOD_PAYMENT
2001	Pierre Martin	\$41.63
2002	Marie Dupont	No Trips
2003	Louis Dubois	No Trips
2004	Antoine Lefevre	No Trips
2005	Sophie Bernard	\$4.54
2006	Arman	\$285.39
2007	Jean Moreau	No Trips
2008	Isabelle Fournier	\$24.98
2009	Emilie Michel	No Trips
2010	Naoki Fujimoto	No Trips
2011	Mathieu Girard	\$15.90
2012	Mansour	\$20.44
2013	Lei Xiong	\$19.68
2014	Claire Robert	No Trips
2015	Nathalie Renaud	\$8.33

15 rows selected.

SQL>
SQL> spool off

TASK 6 JSON SELECT

Marking

Assignment 2 Feedback

```
SQL> ----- Task 6 MongoDB (a) -----
SQL> @T6-pat-json.sql
SQL> /*****PLEASE ENTER YOUR DETAILS BELOW*****/
SQL> --T6-pat-json.sql
SQL>
SQL> --Student ID:
SQL> --Student Name: Sample Solution
SQL>
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL> */
SQL>
SQL> -- PLEASE PLACE REQUIRED SQL SELECT STATEMENT TO GENERATE
SQL> -- THE COLLECTION OF JSON DOCUMENTS HERE
SQL> -- ENSURE that your query is formatted and has a semicolon
SQL> -- (;) at the end of this answer
SQL>
SQL> SELECT
  2     JSON_OBJECT(
  3         '_id' VALUE D.DRIVER_ID,
  4         'name' VALUE TRIM(D.DRIVER_GIVEN || ' ' || D.DRIVER_FAMILY),
  5         'licence_num' VALUE D.DRIVER_LICENCE,
  6         'no_of_trips' VALUE COUNT(trip_id),
  7         'suspended' VALUE D.DRIVER_SUSPENDED,
  8         'trips_info' VALUE JSON_ARRAYAGG(
  9             JSON_OBJECT(
10                 'trip_id' VALUE trip_id,
11                 'veh_vin' VALUE veh_vin,
12                 'pick-up' VALUE JSON_OBJECT(
13                     'location_id' VALUE L1.LOCN_ID,
14                     'location_name' VALUE L1.LOCN_NAME,
15                     'intended_datetime'
16                     VALUE to_char(trip_int_pickupdt,'dd/mm/yyyy hh24:mi'),
17                     'actual_datetime'
18                     VALUE to_char(trip_act_pickupdt,'dd/mm/yyyy hh24:mi')
19                 ),
20                 'drop off' VALUE JSON_OBJECT(
21                     'location_id' VALUE L2.LOCN_ID,
22                     'location_name' VALUE L2.LOCN_NAME,
23                     'intended_datetime'
24                     VALUE to_char(trip_int_dropoffdt,'dd/mm/yyyy hh24:mi'),
25                     'actual_datetime'
26                     VALUE to_char(trip_act_dropoffdt,'dd/mm/yyyy hh24:mi')
27                 )
28             )
29         )
30     FORMAT JSON)
31     || ','
32 FROM DRIVER D JOIN TRIP T
33     ON D.DRIVER_ID = T.DRIVER_ID
34     JOIN LOCATION L1
35     ON T.PICKUP_LOCN_ID = L1.LOCN_ID
```

Assignment 2 Feedback

```
36      JOIN LOCATION L2
37      ON T.DROPOFF_LOCN_ID = L2.LOCN_ID
38 WHERE
39      trip_act_pickupdt IS NOT NULL
40      AND
41      trip_act_dropoffdt IS NOT NULL
42 GROUP BY
43      D.DRIVER_ID,
44      TRIM(D.DRIVER_GIVEN || ' ' || D.DRIVER_FAMILY),
45      D.DRIVER_LICENCE,
46      D.DRIVER_SUSPENDED
47 ORDER BY
48      D.DRIVER_ID;
```

```
JSON_OBJECT(' _ID' VALUED.DRIVER_ID, 'NAME' VALUETRIM(D.DRIVER_GIVEN || ' ' || D.DRIVER_FAMILY), 'LICENCE_NUM' VALUED.DRIVER_LICENCE, 'NO_OF_TRIPS' VALUE
COUNT(TRIP_ID), 'SUSPENDED' VALUED.DRIVER_SUSPENDED, 'TRIPS_INFO' VALUEJSON_ARRAYAGG(JSON_OBJECT(' TRIP_ID' VALUETRIP
```

```
{ "_id": 2001, "name": "Pierre Martin", "licence_num": "120501123456", "no_of_trips": 2, "suspended": "N", "trips_info": [{ "trip_id": 13, "veh_vin": "3VW1K
7AJ8DM593363", "pick-up": { "location_id": 107, "location_name": "North Paris Arena", "intended_datetime": "02/08/2024 12:00", "actual_datetime": "02/
08/2024 12:00" }, "drop off": { "location_id": 105, "location_name": "South Paris Arena", "intended_datetime": "02/08/2024 12:35", "actual_datetime": "
02/08/2024 12:30" } }, { "trip_id": 20, "veh_vin": "WUARL48H57K684173", "pick-up": { "location_id": 113, "location_name": "Olympic and Paralympic village
", "intended_datetime": "06/08/2024 10:00", "actual_datetime": "06/08/2024 10:00" }, "drop off": { "location_id": 109, "location_name": "Paris La Defen
se Arena", "intended_datetime": "06/08/2024 10:25", "actual_datetime": "06/08/2024 10:25" } } ] },
```

```
{ "_id": 2002, "name": "Marie Dupont", "licence_num": "34082A789012", "no_of_trips": 1, "suspended": "N", "trips_info": [{ "trip_id": 10, "veh_vin": "WAUMR4
4E85N069305", "pick-up": { "location_id": 121, "location_name": "Saint-Quentin-en-Yvelines Velodrome", "intended_datetime": "31/07/2024 17:30", "actu
al_datetime": "31/07/2024 17:32" }, "drop off": { "location_id": 114, "location_name": "Champions Park", "intended_datetime": "31/07/2024 18:00", "actu
al_datetime": "31/07/2024 18:06" } } ] },
```

Assignment 2 Feedback

```
{"_id":2003,"name":"Louis Dubois","licence_num":"45112B654321","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":4,"veh_vin":"SCBLC31E41C410996","pick-up":{"location_id":115,"location_name":"Eiffel Tower","intended_datetime":"28/07/2024 12:00","actual_datetime":"28/07/2024 12:07"},"drop off":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"28/07/2024 12:20","actual_datetime":"28/07/2024 12:31"}}]}
```

```
{"_id":2004,"name":"Antoine Lefevre","licence_num":"670495098765","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":6,"veh_vin":"JTEBW3EH8A2753607","pick-up":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"30/07/2024 15:40","actual_datetime":"30/07/2024 15:42"},"drop off":{"location_id":114,"location_name":"Champions Park","intended_datetime":"30/07/2024 17:00","actual_datetime":"30/07/2024 17:04"}}]}
```

```
{"_id":2005,"name":"Sophie Bernard","licence_num":"89122a345678","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":15,"veh_vin":"4T1BK3DB2BU891397","pick-up":{"location_id":117,"location_name":"Tuileries Garden","intended_datetime":"04/08/2024 16:00","actual_datetime":"04/08/2024 16:03"},"drop off":{"location_id":118,"location_name":"Sainte-Chapelle","intended_datetime":"04/08/2024 16:05","actual_datetime":"04/08/2024 16:09"}}]}
```

```
{"_id":2006,"name":"Arman","licence_num":"23072b567890","no_of_trips":4,"suspended":"N","trips_info":[{"trip_id":5,"veh_vin":"4T1BK3DB2BU891397","pick-up":{"location_id":115,"location_name":"Eiffel Tower","intended_datetime":"28/07/2024 12:00","actual_datetime":"28/07/2024 12:05"},"drop off":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"28/07/2024 12:20","actual_datetime":"28/07/2024 12:30"}},{"trip_id":19,"veh_vin":"YV1952AS4D1408550","pick-up":{"location_id":117,"location_name":"Tuileries Garden","intended_datetime":"05/08/2024 19:45","actual_datetime":"05/08/2024 19:50"},"drop off":{"location_id":115,"location_name":"Eiffel Tower","intended_datetime":"05/08/2024 20:00","actual_datetime":"05/08/2024 20:06"}},{"trip_id":18,"veh_vin":"YV1952AS4D1408550","pick-up":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"05/08/2024 15:00","actual_datetime":"05/08/2024 14:55"},"drop off":{"location_id":117,"location_name":"Tuileries Garden","intended_datetime":"05/08/2024 18:25","actual_datetime":"05/08/2024 18:22"}},{"trip_id":17,"veh_vin":"YV1952AS4D1408550","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"05/08/2024 07:00","actual_datetime":"05/08/2024 07:06"},"drop off":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"05/08/2024 09:30","actual_datetime":"05/08/2024 09:40"}]}],{"_id":2007,"name":"Jean Moreau","licence_num":"560903234567","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":2,"veh_vin":"1G6DL67A190421039","pick-up":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"27/07/2024 17:00","actual_datetime":"27/07/2024 17:01"},"drop off":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"27/07/2024 19:40","actual_datetime":"27/07/2024 19:52"}},{"trip_id":22,"veh_vin":"1G6KD54Y92U557711","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"08/08/2024 15:00","actual_datetime":"08/08/2024 15:07"},"drop off":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"08/08/2024 15:25","actual_datetime":"08/08/2024 15:35"}]}]}
```

Assignment 2 Feedback

```
{"_id":2008,"name":"Isabelle Fournier","licence_num":"780350987654","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":12,"veh_vin":"W
AUD2AFD1EN836662","pick-up":{"location_id":107,"location_name":"North Paris Arena","intended_datetime":"02/08/2024 12:00","actual_datetime":
"02/08/2024 12:00"},"drop off":{"location_id":105,"location_name":"South Paris Arena","intended_datetime":"02/08/2024 12:35","actual_datetim
e":"02/08/2024 12:33"}]}],
```

```
{"_id":2009,"name":"Emilie Michel","licence_num":"900115876543","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":9,"veh_vin":"WAUMR4
4E85N069305","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"31/07/2024 07:20","actual_da
tetime":"31/07/2024 07:30"},"drop off":{"location_id":121,"location_name":"Saint-Quentin-en-Yvelines Velodrome","intended_datetime":"31/07/2
024 08:00","actual_datetime":"31/07/2024 08:13"}]}],
```

```
{"_id":2010,"name":"Naoki Fujimoto","licence_num":"110685765432","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":3,"veh_vin":"1D4PU
4GK7BW972165","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"28/07/2024 08:00","actual_d
atetime":"28/07/2024 07:57"},"drop off":{"location_id":104,"location_name":"Eiffel Tower Stadium","intended_datetime":"28/07/2024 08:30","ac
tual_datetime":"28/07/2024 08:28"}}, {"trip_id":24,"veh_vin":"3VW1K7AJ8DM593363","pick-up":{"location_id":114,"location_name":"Champions Park
","intended_datetime":"10/08/2024 12:00","actual_datetime":"10/08/2024 12:02"},"drop off":{"location_id":117,"location_name":"Tuileries Gard
en","intended_datetime":"10/08/2024 12:20","actual_datetime":"10/08/2024 12:25"}]}],
```

```
{"_id":2011,"name":"Mathieu Girard","licence_num":"22102A456789","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":1,"veh_vin":"1G6DL
67A190421039","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"27/07/2024 07:00","actual_d
atetime":"27/07/2024 07:03"},"drop off":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"27/07/2024 09:25","a
ctual_datetime":"27/07/2024 09:40"}}, {"trip_id":21,"veh_vin":"3GYFNAEY1BS255875","pick-up":{"location_id":112,"location_name":"Roland Garros
Stadium","intended_datetime":"07/08/2024 11:00","actual_datetime":"07/08/2024 11:00"},"drop off":{"location_id":111,"location_name":"Porte
de La Chapelle Arena","intended_datetime":"07/08/2024 11:20","actual_datetime":"07/08/2024 11:21"}]}],
```

```
{"_id":2012,"name":"Mansour","licence_num":"33022B678901","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":11,"veh_vin":"1C4SDHCT9FC
613386","pick-up":{"location_id":112,"location_name":"Roland Garros Stadium","intended_datetime":"01/08/2024 14:00","actual_datetime":"01/08
/2024 14:01"},"drop off":{"location_id":116,"location_name":"Louvre Museum","intended_datetime":"01/08/2024 14:25","actual_datetime":"01/08/
2024 14:28"}}, {"trip_id":23,"veh_vin":"1D4PU4GK7BW972165","pick-up":{"location_id":102,"location_name":"Bercy Arena","intended_datetime":"09
/08/2024 17:35","actual_datetime":"09/08/2024 17:38"},"drop off":{"location_id":114,"location_name":"Champions Park","intended_datetime":"09
/08/2024 18:00","actual_datetime":"09/08/2024 18:05"}]}],
```

Assignment 2 Feedback

```
{"_id":2013,"name":"Lei Xiong","licence_num":"441270890123","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":14,"veh_vin":"5UXFG8C50BL686231","pick-up":{"location_id":103,"location_name":"Champ de Mars Arena","intended_datetime":"03/08/2024 17:05","actual_datetime":"03/08/2024 17:10"},"drop off":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"03/08/2024 17:30","actual_datetime":"03/08/2024 17:36"}}]}
```

```
{"_id":2014,"name":"Claire Robert","licence_num":"55052a543210","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":100,"veh_vin":"1C4SDHCT9FC614231","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"30/07/2024 12:30","actual_datetime":"30/07/2024 12:30"},"drop off":{"location_id":111,"location_name":"Porte de La Chapelle Arena","intended_datetime":"30/07/2024 14:00","actual_datetime":"30/07/2024 14:15"}}]}
```

```
{"_id":2015,"name":"Nathalie Renaud","licence_num":"660725432109","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":16,"veh_vin":"3VW1K7AJ8DM593363","pick-up":{"location_id":114,"location_name":"Champions Park","intended_datetime":"04/08/2024 18:50","actual_datetime":"04/08/2024 18:52"},"drop off":{"location_id":119,"location_name":"Arc de Triomphe","intended_datetime":"04/08/2024 19:00","actual_datetime":"04/08/2024 19:03"}}]}
```

15 rows selected.

SQL>

SQL> ----- END RUN -----

SQL> set echo off

TASK 6 MongoDB

Marking

Task 6 MongoDB

```
// *****PLEASE ENTER YOUR DETAILS BELOW*****
// T6-pat-mongo.mongodb.js

// Student ID:
// Student Name: Sample Solution

//Comments for your marker:

// =====
// Do not add new comments to this playground
// OR modify or remove any of the comments below (items marked with //)
// =====

// Use (connect to) your database - you MUST update xyz001
// with your authcate username

use("xyz001");

// (b)
// PLEASE PLACE REQUIRED MONGODB COMMAND TO CREATE THE COLLECTION HERE
// YOU MAY PICK ANY COLLECTION NAME
// ENSURE that your query is formatted and has a semicolon
// (;) at the end of this answer

// Drop collection
db.driver.drop();

// Create collection and insert documents
db.driver.insertMany([
  { "_id":2001,"name":"Pierre Martin","licence_num":"120501123456","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":18,"veh_vin":"WU
UARL48H57K684173","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"06/08/2024 10:00","actu
al_datetime":"06/08/2024 10:00"},"drop off":{"location_id":109,"location_name":"Paris La Defense Arena","intended_datetime":"06/08/2024 10:2
5","actual_datetime":"06/08/2024 10:25"}},{ "trip_id":11,"veh_vin":"3VW1K7AJ8DM593363","pick-up":{"location_id":107,"location_name":"North Pa
ris Arena","intended_datetime":"02/08/2024 12:00","actual_datetime":"02/08/2024 12:00"},"drop off":{"location_id":105,"location_name":"South
Paris Arena","intended_datetime":"02/08/2024 12:35","actual_datetime":"02/08/2024 12:30"}]}]},
  { "_id":2002,"name":"Marie Dupont","licence_num":"34082A789012","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":8,"veh_vin":"WAU
MR44E85N069305","pick-up":{"location_id":121,"location_name":"Saint-Quentin-en-Yvelines Velodrome","intended_datetime":"31/07/2024 17:30","a
ctual_datetime":"31/07/2024 17:32"},"drop off":{"location_id":114,"location_name":"Champions Park","intended_datetime":"31/07/2024 18:00","a
ctual_datetime":"31/07/2024 18:06"}]}]},
  { "_id":2003,"name":"Louis Dubois","licence_num":"45112B654321","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":4,"veh_vin":"SCB
LC31E41C410996","pick-up":{"location_id":115,"location_name":"Eiffel Tower","intended_datetime":"28/07/2024 12:00","actual_datetime":"28/07/
2024 12:07"},"drop off":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"28/07/2024 12:20
","actual_datetime":"28/07/2024 12:31"}]}]},
```

Task 6 MongoDB

```
{ "_id":2004,"name":"Antoine Lefevre","licence_num":"670495098765","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":6,"veh_vin":"JTEBW3EH8A2753607","pick-up":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"30/07/2024 17:40","actual_datetime":"30/07/2024 17:42"},"drop off":{"location_id":114,"location_name":"Champions Park","intended_datetime":"30/07/2024 18:00","actual_datetime":"30/07/2024 18:04"}}]}
```

```
{ "_id":2005,"name":"Sophie Bernard","licence_num":"89122a345678","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":13,"veh_vin":"4T1BK3DB2BU891397","pick-up":{"location_id":117,"location_name":"Tuileries Garden","intended_datetime":"04/08/2024 16:00","actual_datetime":"04/08/2024 16:03"},"drop off":{"location_id":118,"location_name":"Sainte-Chapelle","intended_datetime":"04/08/2024 16:05","actual_datetime":"04/08/2024 16:09"}}]}
```

```
{ "_id":2006,"name":"Arman","licence_num":"23072b567890","no_of_trips":4,"suspended":"N","trips_info":[{"trip_id":17,"veh_vin":"YV1952AS4D1408550","pick-up":{"location_id":117,"location_name":"Tuileries Garden","intended_datetime":"05/08/2024 19:45","actual_datetime":"05/08/2024 19:50"},"drop off":{"location_id":115,"location_name":"Eiffel Tower","intended_datetime":"05/08/2024 20:00","actual_datetime":"05/08/2024 20:06"}},{"trip_id":16,"veh_vin":"YV1952AS4D1408550","pick-up":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"05/08/2024 15:00","actual_datetime":"05/08/2024 14:55"},"drop off":{"location_id":117,"location_name":"Tuileries Garden","intended_datetime":"05/08/2024 18:25","actual_datetime":"05/08/2024 18:22"}},{"trip_id":5,"veh_vin":"4T1BK3DB2BU891397","pick-up":{"location_id":115,"location_name":"Eiffel Tower","intended_datetime":"28/07/2024 12:00","actual_datetime":"28/07/2024 12:05"},"drop off":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"28/07/2024 12:20","actual_datetime":"28/07/2024 12:30"}},{"trip_id":15,"veh_vin":"YV1952AS4D1408550","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"05/08/2024 07:00","actual_datetime":"05/08/2024 07:06"},"drop off":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"05/08/2024 09:30","actual_datetime":"05/08/2024 09:40"}}]}
```

```
{ "_id":2007,"name":"Jean Moreau","licence_num":"560903234567","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":2,"veh_vin":"1G6DL67A190421039","pick-up":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"27/07/2024 17:00","actual_datetime":"27/07/2024 17:01"},"drop off":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"27/07/2024 19:40","actual_datetime":"27/07/2024 19:52"}},{"trip_id":20,"veh_vin":"1G6KD54Y92U557711","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"08/08/2024 15:00","actual_datetime":"08/08/2024 15:07"},"drop off":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"08/08/2024 15:25","actual_datetime":"08/08/2024 15:35"}}]}
```

```
{ "_id":2008,"name":"Isabelle Fournier","licence_num":"780350987654","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":10,"veh_vin":"WAUD2AFD1EN836662","pick-up":{"location_id":107,"location_name":"North Paris Arena","intended_datetime":"02/08/2024 12:00","actual_datetime":"02/08/2024 12:00"},"drop off":{"location_id":105,"location_name":"South Paris Arena","intended_datetime":"02/08/2024 12:35","actual_datetime":"02/08/2024 12:33"}}]}
```


Task 6 MongoDB

```
{ "_id":2009,"name":"Emilie Michel","licence_num":"900115876543","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":7,"veh_vin":"WA
UMR44E85N069305","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"31/07/2024 07:20","actual_datetime":"31/07/2024 07:30"},"drop off":{"location_id":121,"location_name":"Saint-Quentin-en-Yvelines Velodrome","intended_datetime":"31/07/2024 08:00","actual_datetime":"31/07/2024 08:13"}}]}
```

```
{ "_id":2010,"name":"Naoki Fujimoto","licence_num":"110685765432","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":3,"veh_vin":"1
D4PU4GK7BW972165","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"28/07/2024 08:00","actual_datetime":"28/07/2024 07:57"},"drop off":{"location_id":104,"location_name":"Eiffel Tower Stadium","intended_datetime":"28/07/2024 08:30"},"actual_datetime":"28/07/2024 08:28"}],{"trip_id":22,"veh_vin":"3VW1K7AJ8DM593363","pick-up":{"location_id":114,"location_name":"Champions Park","intended_datetime":"10/08/2024 12:00","actual_datetime":"10/08/2024 12:02"},"drop off":{"location_id":117,"location_name":"Tuileries Garden","intended_datetime":"10/08/2024 12:20","actual_datetime":"10/08/2024 12:25"}}]}
```

```
{ "_id":2011,"name":"Mathieu Girard","licence_num":"22102A456789","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":1,"veh_vin":"1
G6DL67A190421039","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"27/07/2024 07:00","actual_datetime":"27/07/2024 07:03"},"drop off":{"location_id":110,"location_name":"Pierre Mauroy Stadium","intended_datetime":"27/07/2024 09:25"},"actual_datetime":"27/07/2024 09:40"}],{"trip_id":19,"veh_vin":"3GYFNAEY1BS255875","pick-up":{"location_id":112,"location_name":"Roland Garros Stadium","intended_datetime":"07/08/2024 11:00","actual_datetime":"07/08/2024 11:00"},"drop off":{"location_id":111,"location_name":"Porte de La Chapelle Arena","intended_datetime":"07/08/2024 11:20","actual_datetime":"07/08/2024 11:21"}}]}
```

```
{ "_id":2012,"name":"Mansour","licence_num":"33022B678901","no_of_trips":2,"suspended":"N","trips_info":[{"trip_id":21,"veh_vin":"1D4PU4G
K7BW972165","pick-up":{"location_id":102,"location_name":"Bercy Arena","intended_datetime":"09/08/2024 17:35","actual_datetime":"09/08/2024 17:38"},"drop off":{"location_id":114,"location_name":"Champions Park","intended_datetime":"09/08/2024 18:00","actual_datetime":"09/08/2024 18:05"}],{"trip_id":9,"veh_vin":"1C4SDHCT9FC613386","pick-up":{"location_id":112,"location_name":"Roland Garros Stadium","intended_datetime":"01/08/2024 14:00","actual_datetime":"01/08/2024 14:01"},"drop off":{"location_id":116,"location_name":"Louvre Museum","intended_datetime":"01/08/2024 14:25","actual_datetime":"01/08/2024 14:28"}}]}
```

```
{ "_id":2013,"name":"Lei Xiong","licence_num":"441270890123","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":12,"veh_vin":"5UXFG
8C50BL686231","pick-up":{"location_id":103,"location_name":"Champ de Mars Arena","intended_datetime":"03/08/2024 17:05","actual_datetime":"03/08/2024 17:10"},"drop off":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"03/08/2024 17:30","actual_datetime":"03/08/2024 17:36"}}]}
```

Task 6 MongoDB

```
{ "_id":2014,"name":"Claire Robert","licence_num":"55052a543210","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":100,"veh_vin":"1C4SDHCT9FC614231","pick-up":{"location_id":113,"location_name":"Olympic and Paralympic village","intended_datetime":"30/08/2024 12:30","actual_datetime":"30/08/2024 12:30"},"drop off":{"location_id":111,"location_name":"Porte de La Chapelle Arena","intended_datetime":"30/08/2024 14:00","actual_datetime":"30/08/2024 14:15"}}]}
```

```
{ "_id":2015,"name":"Nathalie Renaud","licence_num":"660725432109","no_of_trips":1,"suspended":"N","trips_info":[{"trip_id":14,"veh_vin":"3VW1K7AJ8DM593363","pick-up":{"location_id":114,"location_name":"Champions Park","intended_datetime":"04/08/2024 18:50","actual_datetime":"04/08/2024 18:52"},"drop off":{"location_id":119,"location_name":"Arc de Triomphe","intended_datetime":"04/08/2024 19:00","actual_datetime":"04/08/2024 19:03"}}]}
```

```
});

// List all documents you added
db.driver.find({});

// (c)
// PLEASE PLACE REQUIRED MONGODB COMMAND/S FOR THIS PART HERE
// ENSURE that your query is formatted and has a semicolon
// (;) at the end of this answer

db.driver.find(
  {
    "$or":
    [ {"trips_info.drop off.location_name":"Champions Park"},
      {"trips_info.drop off.location_name":"Porte de La Chapelle Arena"} ]
  },
  {
    "name":1, "licence_num":1, "_id":0
  }
);
```

```
// (d)
// PLEASE PLACE REQUIRED MONGODB COMMAND/S FOR THIS PART HERE
// ENSURE that your query is formatted and has a semicolon
// (;) at the end of this answer

// Show document before the new trip is added and the driver is suspended
db.driver.find(
  {
```

Task 6 MongoDB

```
        "_id":2004
    }
};

// Add new trip and set the driver to suspended
db.driver.updateOne(
    { "_id" : 2004 },
    { "$push":
        { "trips_info":
            { "trip_id":18,
              "veh_vin":"WUARL48H57K684173",
              "pick-up":
                  { "location_id":117,
                    "location_name":"Tuileries Garden",
                    "intended_datetime":"10/08/2024 10:00",
                    "actual_datetime":"10/08/2024 10:00"
                  },
              "drop off":
                  { "location_id":118,
                    "location_name":"Sainte-Chapelle",
                    "intended_datetime":"10/08/2024 11:15",
                    "actual_datetime":"10/08/2024 11:23"
                  }
            }
        },
        "$set":{"suspended": "Y"},
        "$inc":{"no_of_trips": 1}
    }
);

// Illustrate/confirm changes made
db.driver.find(
    {
        "_id":2004
    }
);
```

Task 6 MongoDB

```
>>===== Start Mongo DB run of script =====
// Student ID:
// Student Name: Sample Solution
>> Task (b) -----
>> Drop collection
false
>> Create collection and insert documents
{
  acknowledged: true,
  insertedIds: {
    '0': 2001,
    '1': 2002,
    '2': 2003,
    '3': 2004,
    '4': 2005,
    '5': 2006,
    '6': 2007,
    '7': 2008,
    '8': 2009,
    '9': 2010,
    '10': 2011,
    '11': 2012,
    '12': 2013,
    '13': 2014,
    '14': 2015
  }
}
>> List all documents you added
[
  {
    _id: 2001,
    name: 'Pierre Martin',
    licence_num: '120501123456',
    no_of_trips: 2,
    suspended: 'N',
    trips_info: [
      {
        trip_id: 18,
        veh_vin: 'WUARL48H57K684173',
        'pick-up': {
          location_id: 113,
          location_name: 'Olympic and Paralympic village',
          intended_datetime: '06/08/2024 10:00',
          actual_datetime: '06/08/2024 10:00'
        },
        'drop off': {
          location_id: 109,
          location_name: 'Paris La Defense Arena',
          intended_datetime: '06/08/2024 10:25',
          actual_datetime: '06/08/2024 10:25'
        }
      },
      {
        trip_id: 11,
        veh_vin: '3VW1K7AJ8DM593363',
        'pick-up': {
```

Task 6 MongoDB

```
location_id: 107,
location_name: 'North Paris Arena',
intended_datetime: '02/08/2024 12:00',
actual_datetime: '02/08/2024 12:00'
},
'drop off': {
location_id: 105,
location_name: 'South Paris Arena',
intended_datetime: '02/08/2024 12:35',
actual_datetime: '02/08/2024 12:30'
}
}
]
},
{
_id: 2002,
name: 'Marie Dupont',
licence_num: '34082A789012',
no_of_trips: 1,
suspended: 'N',
trips_info: [
{
trip_id: 8,
veh_vin: 'WAUMR44E85N069305',
'pick-up': {
location_id: 121,
location_name: 'Saint-Quentin-en-Yvelines Velodrome',
intended_datetime: '31/07/2024 17:30',
actual_datetime: '31/07/2024 17:32'
},
'drop off': {
location_id: 114,
location_name: 'Champions Park',
intended_datetime: '31/07/2024 18:00',
actual_datetime: '31/07/2024 18:06'
}
}
]
},
{
_id: 2003,
name: 'Louis Dubois',
licence_num: '45112B654321',
no_of_trips: 1,
suspended: 'N',
trips_info: [
{
trip_id: 4,
veh_vin: 'SCBLC31E41C410996',
'pick-up': {
location_id: 115,
location_name: 'Eiffel Tower',
intended_datetime: '28/07/2024 12:00',
actual_datetime: '28/07/2024 12:07'
},
'drop off': {
```

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```
location_id: 120,
location_name: 'The Basilica of the Sacred Heart of Paris',
intended_datetime: '28/07/2024 12:20',
actual_datetime: '28/07/2024 12:31'
}
]
},
{
  _id: 2004,
  name: 'Antoine Lefevre',
  licence_num: '670495098765',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 6,
      veh_vin: 'JTEBW3EH8A2753607',
      'pick-up': {
        location_id: 120,
        location_name: 'The Basilica of the Sacred Heart of Paris',
        intended_datetime: '30/07/2024 17:40',
        actual_datetime: '30/07/2024 17:42'
      },
      'drop off': {
        location_id: 114,
        location_name: 'Champions Park',
        intended_datetime: '30/07/2024 18:00',
        actual_datetime: '30/07/2024 18:04'
      }
    }
  ]
}
],
},
{
  _id: 2005,
  name: 'Sophie Bernard',
  licence_num: '89122a345678',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 13,
      veh_vin: '4T1BK3DB2BU891397',
      'pick-up': {
        location_id: 117,
        location_name: 'Tuileries Garden',
        intended_datetime: '04/08/2024 16:00',
        actual_datetime: '04/08/2024 16:03'
      },
      'drop off': {
        location_id: 118,
        location_name: 'Sainte-Chapelle',
        intended_datetime: '04/08/2024 16:05',
        actual_datetime: '04/08/2024 16:09'
      }
    }
  ]
}
```

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```
]
},
{
  _id: 2006,
  name: 'Arman',
  licence_num: '23072b567890',
  no_of_trips: 4,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 17,
      veh_vin: 'YV1952AS4D1408550',
      'pick-up': {
        location_id: 117,
        location_name: 'Tuileries Garden',
        intended_datetime: '05/08/2024 19:45',
        actual_datetime: '05/08/2024 19:50'
      },
      'drop off': {
        location_id: 115,
        location_name: 'Eiffel Tower',
        intended_datetime: '05/08/2024 20:00',
        actual_datetime: '05/08/2024 20:06'
      }
    },
    {
      trip_id: 16,
      veh_vin: 'YV1952AS4D1408550',
      'pick-up': {
        location_id: 110,
        location_name: 'Pierre Mauroy Stadium',
        intended_datetime: '05/08/2024 15:00',
        actual_datetime: '05/08/2024 14:55'
      },
      'drop off': {
        location_id: 117,
        location_name: 'Tuileries Garden',
        intended_datetime: '05/08/2024 18:25',
        actual_datetime: '05/08/2024 18:22'
      }
    }
  ],
  {
    trip_id: 5,
    veh_vin: '4T1BK3DB2BU891397',
    'pick-up': {
      location_id: 115,
      location_name: 'Eiffel Tower',
      intended_datetime: '28/07/2024 12:00',
      actual_datetime: '28/07/2024 12:05'
    },
    'drop off': {
      location_id: 120,
      location_name: 'The Basilica of the Sacred Heart of Paris',
      intended_datetime: '28/07/2024 12:20',
      actual_datetime: '28/07/2024 12:30'
    }
  }
]
```

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```

    },
    {
      trip_id: 15,
      veh_vin: 'YV1952AS4D1408550',
      'pick-up': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '05/08/2024 07:00',
        actual_datetime: '05/08/2024 07:06'
      },
      'drop off': {
        location_id: 110,
        location_name: 'Pierre Mauroy Stadium',
        intended_datetime: '05/08/2024 09:30',
        actual_datetime: '05/08/2024 09:40'
      }
    }
  ]
},
{
  _id: 2007,
  name: 'Jean Moreau',
  licence_num: '560903234567',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 2,
      veh_vin: '1G6DL67A190421039',
      'pick-up': {
        location_id: 110,
        location_name: 'Pierre Mauroy Stadium',
        intended_datetime: '27/07/2024 17:00',
        actual_datetime: '27/07/2024 17:01'
      },
      'drop off': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '27/07/2024 19:40',
        actual_datetime: '27/07/2024 19:52'
      }
    },
    {
      trip_id: 20,
      veh_vin: '1G6KD54Y92U557711',
      'pick-up': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '08/08/2024 15:00',
        actual_datetime: '08/08/2024 15:07'
      },
      'drop off': {
        location_id: 120,
        location_name: 'The Basilica of the Sacred Heart of Paris',
        intended_datetime: '08/08/2024 15:25',
        actual_datetime: '08/08/2024 15:35'
      }
    }
  ]
}

```


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```
    }
  ]
},
{
  _id: 2008,
  name: 'Isabelle Fournier',
  licence_num: '780350987654',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 10,
      veh_vin: 'WAUD2AFD1EN836662',
      'pick-up': {
        location_id: 107,
        location_name: 'North Paris Arena',
        intended_datetime: '02/08/2024 12:00',
        actual_datetime: '02/08/2024 12:00'
      },
      'drop off': {
        location_id: 105,
        location_name: 'South Paris Arena',
        intended_datetime: '02/08/2024 12:35',
        actual_datetime: '02/08/2024 12:33'
      }
    }
  ]
},
{
  _id: 2009,
  name: 'Emilie Michel',
  licence_num: '900115876543',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 7,
      veh_vin: 'WAUMR44E85N069305',
      'pick-up': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '31/07/2024 07:20',
        actual_datetime: '31/07/2024 07:30'
      },
      'drop off': {
        location_id: 121,
        location_name: 'Saint-Quentin-en-Yvelines Velodrome',
        intended_datetime: '31/07/2024 08:00',
        actual_datetime: '31/07/2024 08:13'
      }
    }
  ]
},
{
  _id: 2010,
```

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```
name: 'Naoki Fujimoto',
licence_num: '110685765432',
no_of_trips: 2,
suspended: 'N',
trips_info: [
  {
    trip_id: 3,
    veh_vin: '1D4PU4GK7BW972165',
    'pick-up': {
      location_id: 113,
      location_name: 'Olympic and Paralympic village',
      intended_datetime: '28/07/2024 08:00',
      actual_datetime: '28/07/2024 07:57'
    },
    'drop off': {
      location_id: 104,
      location_name: 'Eiffel Tower Stadium',
      intended_datetime: '28/07/2024 08:30',
      actual_datetime: '28/07/2024 08:28'
    }
  },
  {
    trip_id: 22,
    veh_vin: '3VW1K7AJ8DM593363',
    'pick-up': {
      location_id: 114,
      location_name: 'Champions Park',
      intended_datetime: '10/08/2024 12:00',
      actual_datetime: '10/08/2024 12:02'
    },
    'drop off': {
      location_id: 117,
      location_name: 'Tuileries Garden',
      intended_datetime: '10/08/2024 12:20',
      actual_datetime: '10/08/2024 12:25'
    }
  }
]
},
{
  _id: 2011,
  name: 'Mathieu Girard',
  licence_num: '22102A456789',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 1,
      veh_vin: '1G6DL67A190421039',
      'pick-up': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '27/07/2024 07:00',
        actual_datetime: '27/07/2024 07:03'
      },
      'drop off': {
```

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```
location_id: 110,
location_name: 'Pierre Mauroy Stadium',
intended_datetime: '27/07/2024 09:25',
actual_datetime: '27/07/2024 09:40'
},
{
  trip_id: 19,
  veh_vin: '3GYFNAEY1BS255875',
  'pick-up': {
    location_id: 112,
    location_name: 'Roland Garros Stadium',
    intended_datetime: '07/08/2024 11:00',
    actual_datetime: '07/08/2024 11:00'
  },
  'drop off': {
    location_id: 111,
    location_name: 'Porte de La Chapelle Arena',
    intended_datetime: '07/08/2024 11:20',
    actual_datetime: '07/08/2024 11:21'
  }
}
]
},
{
  _id: 2012,
  name: 'Mansour',
  licence_num: '33022B678901',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 21,
      veh_vin: '1D4PU4GK7BW972165',
      'pick-up': {
        location_id: 102,
        location_name: 'Bercy Arena',
        intended_datetime: '09/08/2024 17:35',
        actual_datetime: '09/08/2024 17:38'
      },
      'drop off': {
        location_id: 114,
        location_name: 'Champions Park',
        intended_datetime: '09/08/2024 18:00',
        actual_datetime: '09/08/2024 18:05'
      }
    }
  ]
},
{
  trip_id: 9,
  veh_vin: '1C4SDHCT9FC613386',
  'pick-up': {
    location_id: 112,
    location_name: 'Roland Garros Stadium',
    intended_datetime: '01/08/2024 14:00',
    actual_datetime: '01/08/2024 14:01'
  },
}
```

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```
{
  'drop off': {
    location_id: 116,
    location_name: 'Louvre Museum',
    intended_datetime: '01/08/2024 14:25',
    actual_datetime: '01/08/2024 14:28'
  }
},
]
},
{
  _id: 2013,
  name: 'Lei Xiong',
  licence_num: '441270890123',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 12,
      veh_vin: '5UXFG8C50BL686231',
      'pick-up': {
        location_id: 103,
        location_name: 'Champ de Mars Arena',
        intended_datetime: '03/08/2024 17:05',
        actual_datetime: '03/08/2024 17:10'
      },
      'drop off': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '03/08/2024 17:30',
        actual_datetime: '03/08/2024 17:36'
      }
    }
  ]
},
]
},
{
  _id: 2014,
  name: 'Claire Robert',
  licence_num: '55052a543210',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 100,
      veh_vin: '1C4SDHCT9FC614231',
      'pick-up': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '30/08/2024 12:30',
        actual_datetime: '30/08/2024 12:30'
      },
      'drop off': {
        location_id: 111,
        location_name: 'Porte de La Chapelle Arena',
        intended_datetime: '30/08/2024 14:00',
        actual_datetime: '30/08/2024 14:15'
      }
    }
  ]
}
```

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```
    }
  ]
}
},
{
  _id: 2015,
  name: 'Nathalie Renaud',
  licence_num: '660725432109',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 14,
      veh_vin: '3VW1K7AJ8DM593363',
      'pick-up': {
        location_id: 114,
        location_name: 'Champions Park',
        intended_datetime: '04/08/2024 18:50',
        actual_datetime: '04/08/2024 18:52'
      },
      'drop off': {
        location_id: 119,
        location_name: 'Arc de Triomphe',
        intended_datetime: '04/08/2024 19:00',
        actual_datetime: '04/08/2024 19:03'
      }
    }
  ]
}
]
]
>> Task (c) -----
Drop off (trips_info.drop off.location_name) matches in student documents: 5
[
  {
    name: 'Marie Dupont',
    licence_num: '34082A789012'
  },
  {
    name: 'Antoine Lefevre',
    licence_num: '670495098765'
  },
  {
    name: 'Mathieu Girard',
    licence_num: '22102A456789'
  },
  {
    name: 'Mansour',
    licence_num: '33022B678901'
  },
  {
    name: 'Claire Robert',
    licence_num: '55052a543210'
  }
]
>> Task (d) -----
Driver 2004 matches in student documents: 1
[
```

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```
{
  _id: 2004,
  name: 'Antoine Lefevre',
  licence_num: '670495098765',
  no_of_trips: 1,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 6,
      veh_vin: 'JTEBW3EH8A2753607',
      'pick-up': {
        location_id: 120,
        location_name: 'The Basilica of the Sacred Heart of Paris',
        intended_datetime: '30/07/2024 17:40',
        actual_datetime: '30/07/2024 17:42'
      },
      'drop off': {
        location_id: 114,
        location_name: 'Champions Park',
        intended_datetime: '30/07/2024 18:00',
        actual_datetime: '30/07/2024 18:04'
      }
    }
  ]
}
]>> Add new trip and set the driver to suspended
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}>> Illustrate/confirm changes made
[
  {
    _id: 2004,
    name: 'Antoine Lefevre',
    licence_num: '670495098765',
    no_of_trips: 2,
    suspended: 'Y',
    trips_info: [
      {
        trip_id: 6,
        veh_vin: 'JTEBW3EH8A2753607',
        'pick-up': {
          location_id: 120,
          location_name: 'The Basilica of the Sacred Heart of Paris',
          intended_datetime: '30/07/2024 17:40',
          actual_datetime: '30/07/2024 17:42'
        },
        'drop off': {
          location_id: 114,
          location_name: 'Champions Park',
          intended_datetime: '30/07/2024 18:00',
```

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```
    actual_datetime: '30/07/2024 18:04'
  },
  {
    trip_id: 18,
    veh_vin: 'WUARL48H57K684173',
    'pick-up': {
      location_id: 117,
      location_name: 'Tuileries Garden',
      intended_datetime: '10/08/2024 10:00',
      actual_datetime: '10/08/2024 10:00'
    },
    'drop off': {
      location_id: 118,
      location_name: 'Sainte-Chapelle',
      intended_datetime: '10/08/2024 11:15',
      actual_datetime: '10/08/2024 11:23'
    }
  }
]
}
```

Databases Units

Author: FIT Database Teaching Team

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