

# **FIT9132 2024 S2 Assignment 2**

## **MARKING**

**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:35009411
SQL> --Student Name:Shuyang Yan
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 VARCHAR(30),
  4     OFF_FAMILY VARCHAR(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 an official';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN OFFICIAL.OFF_GIVEN IS
  2     'Given name for the official';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN OFFICIAL.OFF_FAMILY IS
  2     'Family name for the official';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN OFFICIAL.CR_IOC_CODE IS
  2     'IOC country code for the official';
```

## Assignment 2 Feedback

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN OFFICIAL.OFF_CDM IS
  2      'Identifier for Chef De Mission for the official';
```

Comment created.

```
SQL>
SQL> ALTER TABLE OFFICIAL
  2      ADD CONSTRAINT OFFICIAL_PK PRIMARY KEY (
  3          OFF_ID
  4      );
```

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';
```

## Assignment 2 Feedback

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN VEHICLE.VM_MODEL_ID IS
2      'Identifier for vehicle_model';
```

Comment created.

```
SQL>
SQL> ALTER TABLE VEHICLE
2      ADD CONSTRAINT VEHICLE_PK PRIMARY KEY (
3          VEH_VIN
4      );
```

Table VEHICLE altered.

```
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 for the trip';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN TRIP.TRIP_INT_PICKUPDT IS
2      'Intended pickup date and time for the trip';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN TRIP.TRIP_ACT_PICKUPDT IS
```

## Assignment 2 Feedback

```
2      'Actual pickup date and time for the trip';
Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.TRIP_INT_DROPOFFDT IS
2      'Intended drop-off date and time for the trip';

Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.TRIP_ACT_DROPOFFDT IS
2      'Actual drop-off date and time for the trip';

Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.VEH_VIN IS
2      'Identifier for a vehicle';

Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.DRIVER_ID IS
2      'Identifier for a driver';

Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.PICKUP_LOCN_ID IS
2      'Identifier for the pick-up location';

Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.DROPOFF_LOCN_ID IS
2      'Identifier for the drop-off location';

Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.LANG_ISO_CODE IS
2      'ISO639-1 two-character language codes';

Comment created.

SQL>
SQL> COMMENT ON COLUMN TRIP.OFF_ID IS
2      'Identifier for an officia';

Comment created.

SQL>
SQL> ALTER TABLE TRIP
2      ADD (
3      CONSTRAINT TRIP_PK PRIMARY KEY ( TRIP_ID ),
```

## Assignment 2 Feedback

```
4      CONSTRAINT TRIP_UQ UNIQUE ( TRIP_INT_PICKUPDT, TRIP_INT_DROPOFFDT, VEH_VIN, DRIVER_ID )
5  );
```

Table TRIP altered.

```
SQL>
SQL> -- Add all missing FK Constraints below here
SQL> ALTER TABLE OFFICIAL
2      ADD (
3          CONSTRAINT COUNTRY_REGION_OFFICIAL_FK FOREIGN KEY ( CR_IOC_CODE ) REFERENCES COUNTRY_REGION ( CR_IOC_CODE ),
4          CONSTRAINT OFFICIAL_OFFICIAL_FK FOREIGN KEY ( OFF_CDM ) REFERENCES OFFICIAL ( OFF_ID )
5      );
```

Table OFFICIAL altered.

```
SQL>
SQL> ALTER TABLE VEHICLE
2      ADD CONSTRAINT VEHICLE_MODEL_VEHICLE_FK FOREIGN KEY (
3          VM_MODEL_ID
4      )
5          REFERENCES VEHICLE_MODEL (
6              VM_MODEL_ID
7          );
```

Table VEHICLE altered.

```
SQL>
SQL> ALTER TABLE TRIP
2      ADD (
3          CONSTRAINT VEHICLE_TRIP_FK FOREIGN KEY ( VEH_VIN ) REFERENCES VEHICLE ( VEH_VIN ),
4          CONSTRAINT DRIVER_TRIP_FK FOREIGN KEY ( DRIVER_ID ) REFERENCES DRIVER ( DRIVER_ID ),
5          CONSTRAINT LOCATION_TRIP_PICK_FK FOREIGN KEY ( PICKUP_LOCN_ID ) REFERENCES LOCATION ( LOCN_ID ),
6          CONSTRAINT LOCATION_TRIP_DROP_FK FOREIGN KEY ( DROPOFF_LOCN_ID ) REFERENCES LOCATION ( LOCN_ID ),
7          CONSTRAINT LANGUAGE_TRIP_FK FOREIGN KEY ( LANG_ISO_CODE ) REFERENCES LANGUAGE ( LANG_ISO_CODE ),
8          CONSTRAINT OFFICIAL_TRIP_FK FOREIGN KEY ( OFF_ID ) REFERENCES OFFICIAL ( OFF_ID )
9      );
```

Table TRIP 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)

## Assignment 2 Feedback

```

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)
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_OFFICIAL_FK	Foreign Key	OFFICIAL	
SYS_C008881307	Check	OFFICIAL	"CR_IOC_CODE" IS NOT NULL
SYS_C008881306	Check	OFFICIAL	"OFF_ID" IS NOT NULL
TRIP_UQ	Unique	TRIP	
TRIP_PK	Primary Key	TRIP	
VEHICLE_TRIP_FK	Foreign Key	TRIP	
OFFICIAL_TRIP_FK	Foreign Key	TRIP	
LOCATION_TRIP_PICK_FK	Foreign Key	TRIP	
LOCATION_TRIP_DROP_FK	Foreign Key	TRIP	
LANGUAGE_TRIP_FK	Foreign Key	TRIP	
DRIVER_TRIP_FK	Foreign Key	TRIP	
SYS_C008881325	Check	TRIP	"OFF_ID" IS NOT NULL
SYS_C008881324	Check	TRIP	"LANG_ISO_CODE" IS NOT NULL
SYS_C008881323	Check	TRIP	"DROPOFF_LOCN_ID" IS NOT NULL
SYS_C008881322	Check	TRIP	"PICKUP_LOCN_ID" IS NOT NULL
SYS_C008881321	Check	TRIP	"DRIVER_ID" IS NOT NULL
SYS_C008881317	Check	TRIP	"TRIP_NOPASSENGERS" IS NOT NULL
SYS_C008881318	Check	TRIP	"TRIP_INT_PICKUPDT" IS NOT NULL
SYS_C008881319	Check	TRIP	"TRIP_INT_DROPOFFDT" IS NOT NULL
SYS_C008881320	Check	TRIP	"VEH_VIN" IS NOT NULL
SYS_C008881316	Check	TRIP	"TRIP_ID" IS NOT NULL
VEHICLE_PK	Primary Key	VEHICLE	
VEHICLE_MODEL_VEHICLE_FK	Foreign Key	VEHICLE	
SYS_C008881313	Check	VEHICLE	"VEH_NOPASSENGERS" IS NOT NULL
SYS_C008881312	Check	VEHICLE	"VEH_CURR_ODO" IS NOT NULL
SYS_C008881311	Check	VEHICLE	"VEH_YEAR" IS NOT NULL



## Assignment 2 Feedback

SYS_C008881309	Check	VEHICLE	"VEH_VIN" IS NOT NULL
SYS_C008881310	Check	VEHICLE	"VEH_REGO" IS NOT NULL
SYS_C008881314	Check	VEHICLE	"VM_MODEL_ID" IS NOT NULL

31 rows selected.

SQL> ----- Task 2 Load Student Data -----

SQL> @T2-pat-insert.sql

SQL> /\*\*\*\*\*PLEASE ENTER YOUR DETAILS BELOW\*\*\*\*\*/

SQL> --T2-pat-insert.sql

SQL>

SQL> --Student ID:35009411

SQL> --Student Name:Shuyang Yan

SQL>

SQL> /\* Comments for your marker:

SQL>

SQL>

SQL>

SQL>

SQL>\*/

SQL>

SQL> -----

SQL> --INSERT INTO official

SQL> -----

SQL> INSERT INTO OFFICIAL VALUES (

```
2      1,
3      'Heather',
4      'Pineda',
5      'FRA',
6      NULL
7 );
```

1 row inserted.

SQL>

SQL> INSERT INTO OFFICIAL VALUES (

```
2      2,
3      'Carol',
4      'Rich',
5      'USA',
6      NULL
7 );
```

1 row inserted.

SQL>

SQL> INSERT INTO OFFICIAL VALUES (

```
2      3,
3      'Sebastian',
4      'Farmer',
5      'USA',
6      2
7 );
```

1 row inserted.

## Assignment 2 Feedback

```
SQL>
SQL> INSERT INTO OFFICIAL VALUES (
  2      4,
  3      'Blanca',
  4      'Mckenzie',
  5      'USA',
  6      2
  7  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO OFFICIAL VALUES (
  2      5,
  3      'Huey',
  4      'Trujillo',
  5      'ESP',
  6      NULL
  7  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO OFFICIAL VALUES (
  2      6,
  3      'Courtney',
  4      'Madden',
  5      'POR',
  6      NULL
  7  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO OFFICIAL VALUES (
  2      7,
  3      'Cecelia',
  4      'Chavez',
  5      'AUS',
  6      NULL
  7  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO OFFICIAL VALUES (
  2      8,
  3      'Arlen',
  4      'Hays',
  5      'AUS',
  6      7
  7  );
```

1 row inserted.

SQL>

## Assignment 2 Feedback

```
SQL> INSERT INTO OFFICIAL VALUES (  
  2      9,  
  3      'Annmarie',  
  4      'Randall',  
  5      'AUS',  
  6      7  
  7  );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO OFFICIAL VALUES (  
  2      10,  
  3      'Krystal',  
  4      'Goodman',  
  5      'GER',  
  6      NULL  
  7  );
```

1 row inserted.

```
SQL>  
SQL> -----  
SQL> --INSERT INTO vehicle  
SQL> -----  
SQL> INSERT INTO VEHICLE VALUES (  
  2      'qwhgjnsutvdjnf1',  
  3      'AAAAA1',  
  4      TO_DATE('2022', 'YYYY'),  
  5      11111,  
  6      20,  
  7      1  
  8  );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO VEHICLE VALUES (  
  2      'ashgntjfugnvdf12',  
  3      'BBBBB2',  
  4      TO_DATE('2023', 'YYYY'),  
  5      22222,  
  6      20,  
  7      1  
  8  );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO VEHICLE VALUES (  
  2      'nsjfwdbfuydbwsh3',  
  3      'CCCCC3',  
  4      TO_DATE('2022', 'YYYY'),  
  5      33333,  
  6      60,  
  7      2
```

## Assignment 2 Feedback

```
8 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO VEHICLE VALUES (  
2      'bbbbbbbbbbbbbbbb4',  
3      'DDDDDD4',  
4      TO_DATE('2021', 'YYYY'),  
5      33333,  
6      60,  
7      2  
8 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO VEHICLE VALUES (  
2      'cccccccccccccccc5',  
3      'EEEEEE5',  
4      TO_DATE('2023', 'YYYY'),  
5      11111,  
6      60,  
7      3  
8 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO VEHICLE VALUES (  
2      'dddddddddddddddd6',  
3      'FFFFFF6',  
4      TO_DATE('2022', 'YYYY'),  
5      22222,  
6      60,  
7      3  
8 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO VEHICLE VALUES (  
2      'eeeeeeeeeeeeeeee7',  
3      'GGGGGG7',  
4      TO_DATE('2022', 'YYYY'),  
5      11111,  
6      40,  
7      4  
8 );  
  
1 row inserted.  
  
SQL>  
SQL> INSERT INTO VEHICLE VALUES (  
2      'fffffffffffffffff8',  
3      'HHHHHH8',
```

## Assignment 2 Feedback

```
4      TO_DATE('2023', 'yyyy'),
5      11111,
6      40,
7      4
8  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO VEHICLE VALUES (
2      'gggggggggggggggggg9',
3      'IIIIII9',
4      TO_DATE('2024', 'yyyy'),
5      11111,
6      40,
7      5
8  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO VEHICLE VALUES (
2      'hhhhhhhhhhhhhhhh10',
3      'JJJJJ10',
4      TO_DATE('2024', 'yyyy'),
5      11111,
6      40,
7      5
8  );
```

1 row inserted.

```
SQL>
SQL> -----
SQL> --INSERT INTO trip
SQL> -----
SQL> INSERT INTO TRIP VALUES (
2      1,
3      18,
4      TO_DATE('21/07/2024 09:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('21/07/2024 09:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('21/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('21/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),
8      'qwhgjnsutvdjnfrul',
9      2001,
10     101,
11     102,
12     'fr',
13     1
14  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
2      2,
```

## Assignment 2 Feedback

```
3      19,
4      TO_DATE('21/07/2024 13:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('21/07/2024 13:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('21/07/2024 14:30', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('21/07/2024 14:30', 'dd/mm/yyyy hh24:mi'),
8      'qwhgjnsvtdjnf1',
9      2002,
10     111,
11     113,
12     'fr',
13     1
14 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO TRIP VALUES (
2      3,
3      20,
4      TO_DATE('21/07/2024 09:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('21/07/2024 09:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('21/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('21/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),
8      'ashgntjfugnvdf12',
9      2003,
10     101,
11     102,
12     'en',
13     2
14 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO TRIP VALUES (
2      4,
3      20,
4      TO_DATE('24/07/2024 12:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('24/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('24/07/2024 13:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('24/07/2024 13:00', 'dd/mm/yyyy hh24:mi'),
8      'ashgntjfugnvdf12',
9      2004,
10     109,
11     115,
12     'en',
13     2
14 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO TRIP VALUES (
2      5,
3      35,
4      TO_DATE('26/07/2024 12:00', 'dd/mm/yyyy hh24:mi'),
```

## Assignment 2 Feedback

```
5      TO_DATE('26/07/2024 12:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('26/07/2024 13:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('26/07/2024 13:10', 'dd/mm/yyyy hh24:mi'),
8      'nsjfwbdbfuydbwsh3',
9      2006,
10     104,
11     106,
12     'en',
13     3
14 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
2      6,
3      44,
4      TO_DATE('27/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('27/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('27/07/2024 12:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('27/07/2024 12:00', 'dd/mm/yyyy hh24:mi'),
8      'nsjfwbdbfuydbwsh3',
9      2006,
10     104,
11     106,
12     'en',
13     4
14 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
2      7,
3      55,
4      TO_DATE('30/07/2024 11:30', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('30/07/2024 11:30', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('30/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('30/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
8      'bbbbbbbbbbbbbbbb4',
9      2007,
10     114,
11     101,
12     'en',
13     4
14 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
2      8,
3      51,
4      TO_DATE('29/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('29/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('29/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
```

## Assignment 2 Feedback

```
7      TO_DATE('29/07/2024 13:00', 'dd/mm/yyyy hh24:mi'),
8      'bbbbbbbbbbbbbbbb4',
9      2005,
10     108,
11     106,
12     'es',
13     5
14 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO TRIP VALUES (
2      9,
3      56,
4      TO_DATE('28/07/2024 10:30', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('28/07/2024 10:30', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('28/07/2024 11:30', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('28/07/2024 11:30', 'dd/mm/yyyy hh24:mi'),
8      'bbbbbbbbbbbbbbbb4',
9      2005,
10     104,
11     117,
12     'es',
13     5
14 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO TRIP VALUES (
2      10,
3      59,
4      TO_DATE('25/07/2024 14:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('25/07/2024 14:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('25/07/2024 15:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('25/07/2024 15:30', 'dd/mm/yyyy hh24:mi'),
8      'cccccccccccccc5',
9      2004,
10     102,
11     103,
12     'pt',
13     6
14 );
```

1 row inserted.

SQL>

```
SQL> INSERT INTO TRIP VALUES (
2      11,
3      60,
4      TO_DATE('25/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('25/07/2024 10:15', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('25/07/2024 12:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('25/07/2024 12:00', 'dd/mm/yyyy hh24:mi'),
8      'cccccccccccccc5',
```



## Assignment 2 Feedback

```
9      2011,  
10     105,  
11     102,  
12     'en',  
13     7  
14 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO TRIP VALUES (  
2      12,  
3      48,  
4      TO_DATE('26/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),  
5      TO_DATE('26/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),  
6      TO_DATE('26/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),  
7      TO_DATE('26/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),  
8      'cccccccccccccccc5',  
9      2013,  
10     106,  
11     112,  
12     'en',  
13     8  
14 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO TRIP VALUES (  
2      13,  
3      55,  
4      TO_DATE('1/08/2024 13:00', 'dd/mm/yyyy hh24:mi'),  
5      TO_DATE('1/08/2024 13:00', 'dd/mm/yyyy hh24:mi'),  
6      TO_DATE('1/08/2024 14:30', 'dd/mm/yyyy hh24:mi'),  
7      TO_DATE('1/08/2024 15:00', 'dd/mm/yyyy hh24:mi'),  
8      'dddddddddddddd6',  
9      2015,  
10     112,  
11     105,  
12     'pt',  
13     6  
14 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO TRIP VALUES (  
2      14,  
3      25,  
4      TO_DATE('22/07/2024 09:00', 'dd/mm/yyyy hh24:mi'),  
5      TO_DATE('22/07/2024 09:30', 'dd/mm/yyyy hh24:mi'),  
6      TO_DATE('22/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),  
7      TO_DATE('22/07/2024 11:00', 'dd/mm/yyyy hh24:mi'),  
8      'eeeeeeeeeeeeee7',  
9      2003,  
10     113,
```

## Assignment 2 Feedback

```
11      105,  
12      'fr',  
13      1  
14 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO TRIP VALUES (  
2      15,  
3      28,  
4      TO_DATE('24/07/2024 14:00', 'dd/mm/yyyy hh24:mi'),  
5      TO_DATE('24/07/2024 14:00', 'dd/mm/yyyy hh24:mi'),  
6      TO_DATE('24/07/2024 17:00', 'dd/mm/yyyy hh24:mi'),  
7      TO_DATE('24/07/2024 17:00', 'dd/mm/yyyy hh24:mi'),  
8      'eeeeeeeeeeeeeeee7',  
9      2014,  
10     114,  
11     106,  
12     'en',  
13     9  
14 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO TRIP VALUES (  
2      16,  
3      24,  
4      TO_DATE('23/07/2024 13:30', 'dd/mm/yyyy hh24:mi'),  
5      TO_DATE('23/07/2024 13:30', 'dd/mm/yyyy hh24:mi'),  
6      TO_DATE('23/07/2024 15:00', 'dd/mm/yyyy hh24:mi'),  
7      TO_DATE('23/07/2024 14:30', 'dd/mm/yyyy hh24:mi'),  
8      'fffffffffffffffff8',  
9      2007,  
10     107,  
11     108,  
12     'en',  
13     2  
14 );
```

1 row inserted.

```
SQL>  
SQL> INSERT INTO TRIP VALUES (  
2      17,  
3      34,  
4      TO_DATE('22/07/2024 09:00', 'dd/mm/yyyy hh24:mi'),  
5      TO_DATE('22/07/2024 09:30', 'dd/mm/yyyy hh24:mi'),  
6      TO_DATE('22/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),  
7      TO_DATE('22/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),  
8      'ggggggggggggggggg9',  
9      2002,  
10     101,  
11     103,  
12     'en',
```

## Assignment 2 Feedback

```
13      3
14 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
2      18,
3      33,
4      TO_DATE('23/07/2024 14:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('23/07/2024 14:00', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('23/07/2024 15:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('23/07/2024 15:00', 'dd/mm/yyyy hh24:mi'),
8      'hhhhhhhhhhhhhhhh10',
9      2001,
10     109,
11     110,
12     'en',
13     4
14 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
2      19,
3      39,
4      TO_DATE('24/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('24/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('24/07/2024 14:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('24/07/2024 14:30', 'dd/mm/yyyy hh24:mi'),
8      'hhhhhhhhhhhhhhhh10',
9      2005,
10     111,
11     116,
12     'es',
13     5
14 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
2      20,
3      40,
4      TO_DATE('22/07/2024 09:00', 'dd/mm/yyyy hh24:mi'),
5      TO_DATE('22/07/2024 08:30', 'dd/mm/yyyy hh24:mi'),
6      TO_DATE('22/07/2024 10:00', 'dd/mm/yyyy hh24:mi'),
7      TO_DATE('22/07/2024 09:30', 'dd/mm/yyyy hh24:mi'),
8      'hhhhhhhhhhhhhhhh10',
9      2001,
10     101,
11     103,
12     'de',
13     10
14 );
```

## Assignment 2 Feedback

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
  2      21,
  3      5,
  4      TO_DATE('5/08/2024 11:00', 'dd/mm/yyyy hh24:mi'),
  5      TO_DATE('5/08/2024 11:00', 'dd/mm/yyyy hh24:mi'),
  6      TO_DATE('5/08/2024 12:00', 'dd/mm/yyyy hh24:mi'),
  7      TO_DATE('5/08/2024 12:00', 'dd/mm/yyyy hh24:mi'),
  8      'dddddddddddddd6',
  9      2015,
  10     115,
  11     116,
  12     'pt',
  13     6
  14 );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO TRIP VALUES (
  2      22,
  3      48,
  4      TO_DATE('6/08/2024 12:00', 'dd/mm/yyyy hh24:mi'),
  5      TO_DATE('6/08/2024 12:00', 'dd/mm/yyyy hh24:mi'),
  6      TO_DATE('6/08/2024 13:00', 'dd/mm/yyyy hh24:mi'),
  7      TO_DATE('6/08/2024 13:00', 'dd/mm/yyyy hh24:mi'),
  8      'dddddddddddddd6',
  9      2013,
  10     118,
  11     116,
  12     'en',
  13     8
  14 );
```

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):	10
2. VEHICLE Rows (10 required):	10
3. TRIP Rows(20 required):	22

## Assignment 2 Feedback

```
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
7	Cecelia	Chavez	AUS	
8	Arlen	Hays	AUS	7
9	Annmarie	Randall	AUS	7
5	Huey	Trujillo	ESP	
1	Heather	Pineda	FRA	
10	Krystal	Goodman	GER	
6	Courtney	Madden	POR	
2	Carol	Rich	USA	
3	Sebastian	Farmer	USA	2
4	Blanca	Mckenzie	USA	2

10 rows selected.

```
SQL> -- VEHICLE
SQL> set echo off
```

VEH_VIN	VEH_REGO	VEH_YEAR	VEH_CURR_ODO	VEH_NOPASSENGERS	VM_MODEL_ID
ashgntjfugnvdhfl2	BBBBBB2	2023	22222	20	1
qwhgjnsvtdjnfur1	AAAAAA1	2022	11111	20	1
bbbbbbbbbbbbbbbb4	DDDDDD4	2021	33333	60	2
nsjfwdbfuydbwsh3	CCCCCC3	2022	33333	60	2
ccccccccccccccc5	EEEEEE5	2023	11111	60	3
ddddddddddddddd6	FFFFF6	2022	22222	60	3
eeeeeeeeeeeeeee7	GGGGG7	2022	11111	40	4
fffffffffffffffff8	HHHHHH8	2023	11111	40	4
ggggggggggggggg9	IIIIII9	2024	11111	40	5
hhhhhhhhhhhhhhh10	JJJJJ10	2024	11111	40	5

10 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			
3		20 21/07/2024 09:00	21/07/2024 09:00	21/07/2024 10:00	21/07/2024 10:00	ashgntjfugnvdhfl2	
2003	101	102 en	2				
1		18 21/07/2024 09:00	21/07/2024 09:00	21/07/2024 10:00	21/07/2024 10:00	qwhgjnsvtdjnfur1	
2001	101	102 fr	1				
2		19 21/07/2024 13:00	21/07/2024 13:00	21/07/2024 14:30	21/07/2024 14:30	qwhgjnsvtdjnfur1	
2002	111	113 fr	1				
17		34 22/07/2024 09:00	22/07/2024 09:30	22/07/2024 10:00	22/07/2024 10:00	ggggggggggggggg9	
2002	101	103 en	3				

## Assignment 2 Feedback

20		40	22/07/2024 09:00	22/07/2024 08:30	22/07/2024 10:00	22/07/2024 09:30	hhhhhhhhhhhhhhhh10
2001	101		103 de	10			
14		25	22/07/2024 09:00	22/07/2024 09:30	22/07/2024 11:00	22/07/2024 11:00	eeeeeeeeeeeeeeee7
2003	113		105 fr	1			
16		24	23/07/2024 13:30	23/07/2024 13:30	23/07/2024 15:00	23/07/2024 14:30	ffffffffffffffffff8
2007	107		108 en	2			
18		33	23/07/2024 14:00	23/07/2024 14:00	23/07/2024 15:00	23/07/2024 15:00	hhhhhhhhhhhhhhhh10
2001	109		110 en	4			
4		20	24/07/2024 12:00	24/07/2024 12:30	24/07/2024 13:00	24/07/2024 13:00	ashgntjfugnvdhfl2
2004	109		115 en	2			
19		39	24/07/2024 12:30	24/07/2024 12:30	24/07/2024 14:00	24/07/2024 14:30	hhhhhhhhhhhhhhhh10
2005	111		116 es	5			
15		28	24/07/2024 14:00	24/07/2024 14:00	24/07/2024 17:00	24/07/2024 17:00	eeeeeeeeeeeeeeee7
2014	114		106 en	9			
11		60	25/07/2024 10:00	25/07/2024 10:15	25/07/2024 12:00	25/07/2024 12:00	cccccccccccccccc5
2011	105		102 en	7			
10		59	25/07/2024 14:00	25/07/2024 14:00	25/07/2024 15:00	25/07/2024 15:30	cccccccccccccccc5
2004	102		103 pt	6			
12		48	26/07/2024 11:00	26/07/2024 11:00	26/07/2024 12:30	26/07/2024 12:30	cccccccccccccccc5
2013	106		112 en	8			
5		35	26/07/2024 12:00	26/07/2024 12:00	26/07/2024 13:00	26/07/2024 13:10	nsjfwfdbfuydbwsh3
2006	104		106 en	3			
6		44	27/07/2024 11:00	27/07/2024 11:00	27/07/2024 12:00	27/07/2024 12:00	nsjfwfdbfuydbwsh3
2006	104		106 en	4			
9		56	28/07/2024 10:30	28/07/2024 10:30	28/07/2024 11:30	28/07/2024 11:30	bbbbbbbbbbbbbbbb4
2005	104		117 es	5			
8		51	29/07/2024 11:00	29/07/2024 11:00	29/07/2024 12:30	29/07/2024 13:00	bbbbbbbbbbbbbbbb4
2005	108		106 es	5			
7		55	30/07/2024 11:30	30/07/2024 11:30	30/07/2024 12:30	30/07/2024 12:30	bbbbbbbbbbbbbbbb4
2007	114		101 en	4			
13		55	01/08/2024 13:00	01/08/2024 13:00	01/08/2024 14:30	01/08/2024 15:00	ddddddddddddddd6
2015	112		105 pt	6			
21		5	05/08/2024 11:00	05/08/2024 11:00	05/08/2024 12:00	05/08/2024 12:00	ddddddddddddddd6
2015	115		116 pt	6			
22		48	06/08/2024 12:00	06/08/2024 12:00	06/08/2024 13:00	06/08/2024 13:00	ddddddddddddddd6
2013	118		116 en	8			

22 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
ESP	1	Valid number of CDM
FRA	1	Valid number of CDM

## Assignment 2 Feedback

```
GER          1 Valid number of CDM
POR          1 Valid number of CDM
USA          1 Valid number of CDM
```

6 rows selected.

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

OFF_ID	OFF_IOC_CODE	OFF_CDM	CDM_IOC_CODE	CDM_CHECK
3	USA	2	USA	Valid manager
4	USA	2	USA	Valid manager
8	AUS	7	AUS	Valid manager
9	AUS	7	AUS	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	21/07/2024 09:00	21/07/2024 09:00	21/07/2024 10:00	21/07/2024 10:00	1.0	Valid pick-up and drop-off times
2	21/07/2024 13:00	21/07/2024 13:00	21/07/2024 14:30	21/07/2024 14:30	1.5	Valid pick-up and drop-off times
3	21/07/2024 09:00	21/07/2024 09:00	21/07/2024 10:00	21/07/2024 10:00	1.0	Valid pick-up and drop-off times
4	24/07/2024 12:00	24/07/2024 12:30	24/07/2024 13:00	24/07/2024 13:00	1.0	Valid pick-up and drop-off times
5	26/07/2024 12:00	26/07/2024 12:00	26/07/2024 13:00	26/07/2024 13:10	1.0	Valid pick-up and drop-off times
6	27/07/2024 11:00	27/07/2024 11:00	27/07/2024 12:00	27/07/2024 12:00	1.0	Valid pick-up and drop-off times
7	30/07/2024 11:30	30/07/2024 11:30	30/07/2024 12:30	30/07/2024 12:30	1.0	Valid pick-up and drop-off times
8	29/07/2024 11:00	29/07/2024 11:00	29/07/2024 12:30	29/07/2024 13:00	1.5	Valid pick-up and drop-off times
9	28/07/2024 10:30	28/07/2024 10:30	28/07/2024 11:30	28/07/2024 11:30	1.0	Valid pick-up and drop-off times
10	25/07/2024 14:00	25/07/2024 14:00	25/07/2024 15:00	25/07/2024 15:30	1.0	Valid pick-up and drop-off times
11	25/07/2024 10:00	25/07/2024 10:15	25/07/2024 12:00	25/07/2024 12:00	2.0	Valid pick-up and drop-off times

## Assignment 2 Feedback

12	26/07/2024	11:00	26/07/2024	11:00	26/07/2024	12:30	26/07/2024	12:30	1.5	Valid pick-up and drop-off times
13	01/08/2024	13:00	01/08/2024	13:00	01/08/2024	14:30	01/08/2024	15:00	1.5	Valid pick-up and drop-off times
14	22/07/2024	09:00	22/07/2024	09:30	22/07/2024	11:00	22/07/2024	11:00	2.0	Valid pick-up and drop-off times
15	24/07/2024	14:00	24/07/2024	14:00	24/07/2024	17:00	24/07/2024	17:00	3.0	Valid pick-up and drop-off times
16	23/07/2024	13:30	23/07/2024	13:30	23/07/2024	15:00	23/07/2024	14:30	1.5	Valid pick-up and drop-off times
17	22/07/2024	09:00	22/07/2024	09:30	22/07/2024	10:00	22/07/2024	10:00	1.0	Valid pick-up and drop-off times
18	23/07/2024	14:00	23/07/2024	14:00	23/07/2024	15:00	23/07/2024	15:00	1.0	Valid pick-up and drop-off times
19	24/07/2024	12:30	24/07/2024	12:30	24/07/2024	14:00	24/07/2024	14:30	1.5	Valid pick-up and drop-off times
20	22/07/2024	09:00	22/07/2024	08:30	22/07/2024	10:00	22/07/2024	09:30	1.0	Valid pick-up and drop-off times
21	05/08/2024	11:00	05/08/2024	11:00	05/08/2024	12:00	05/08/2024	12:00	1.0	Valid pick-up and drop-off times
22	06/08/2024	12:00	06/08/2024	12:00	06/08/2024	13:00	06/08/2024	13:00	1.0	Valid pick-up and drop-off times

22 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	18	20	Valid number of passengers
2	19	20	Valid number of passengers
3	20	20	Valid number of passengers
4	20	20	Valid number of passengers
5	35	60	Valid number of passengers
6	44	60	Valid number of passengers
7	55	60	Valid number of passengers
8	51	60	Valid number of passengers
9	56	60	Valid number of passengers
10	59	60	Valid number of passengers
11	60	60	Valid number of passengers
12	48	60	Valid number of passengers
13	55	60	Valid number of passengers
14	25	40	Valid number of passengers
15	28	40	Valid number of passengers
16	24	40	Valid number of passengers
17	34	40	Valid number of passengers
18	33	40	Valid number of passengers
19	39	40	Valid number of passengers
20	40	40	Valid number of passengers
21	5	60	Valid number of passengers
22	48	60	Valid number of passengers

22 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:35009411
SQL> --Student Name:Shuyang Yan
SQL>
SQL> /* Comments for your marker:
SQL>In question d, assuming that a driver cannot skip a trip booking among all bookings allocated to him.
SQL>And he must complete the bookings sequentially.
SQL>For example, if a driver has not completed a booking at 10AM, he cannot start any booking after 10AM.
SQL>And also a driver cannot be booked during another booking. He can only be assigned after actually arriving at a drop place.
SQL>
SQL>
SQL>*/
SQL>
SQL> /*(a)*/
SQL> DROP SEQUENCE OFF_ID_SEQ;
```

```
Error starting at line : 17 File @ Shuyang Yan_2701096_assignsubmission_file/T3-pat-dml.sql
In command -
DROP SEQUENCE OFF_ID_SEQ
Error report -
ORA-02289: sequence does not exist
```

[https://docs.oracle.com/error-help/db/ora-02289/02289.000000 - \"sequence does not exist\"](https://docs.oracle.com/error-help/db/ora-02289/02289.000000 - \)  
\*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> DROP SEQUENCE TRIP_ID_SEQ;
```

```
Error starting at line : 19 File @ Shuyang Yan_2701096_assignsubmission_file/T3-pat-dml.sql
In command -
DROP SEQUENCE TRIP_ID_SEQ
Error report -
ORA-02289: sequence does not exist
```

[https://docs.oracle.com/error-help/db/ora-02289/02289.000000 - \"sequence does not exist\"](https://docs.oracle.com/error-help/db/ora-02289/02289.000000 - \)  
\*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 OFF_ID_SEQ START WITH 100 INCREMENT BY 10;
```

Sequence OFF\_ID\_SEQ created ✓

```
SQL>
SQL> CREATE SEQUENCE TRIP_ID_SEQ START WITH 100 INCREMENT BY 10;
```

Sequence TRIP\_ID\_SEQ created. ✓

## Assignment 2 Feedback

```
SQL>
SQL> /*(b)*/
SQL> INSERT INTO OFFICIAL VALUES (
2     OFF_ID_SEQ.NEXTVAL,
3     'Franklin',
4     'Gateau',
5     ( SELECT CR_IOC_CODE FROM COUNTRY_REGION WHERE UPPER(CR_NAME) = UPPER('St Vincent and the Grenadines') ),
6     NULL
7 );

1 row inserted.

SQL>
SQL> INSERT INTO VEHICLE VALUES (
2     '1C4SDHCT9FC614231',
3     'ZZZZZZZ',
4     TO_DATE('2022', 'YYYY'),
5     11111,
6     6,
7     ( SELECT VM_MODEL_ID FROM VEHICLE_MODEL WHERE UPPER(VM_MODEL) = UPPER('ALPHARD') AND MAN_ID = ( SELECT MAN_ID FROM MANUFACTURER WHERE UPPER(MAN_NAME) = UPPER('TOYOTA') ) )
8 );

1 row inserted.

SQL>
SQL> COMMIT;

Commit complete.

SQL>
SQL> /*(c)*/
SQL> INSERT INTO TRIP VALUES (
2     TRIP_ID_SEQ.NEXTVAL,
3     6,
4     TO_DATE('30/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
5     TO_DATE('30/07/2024 12:30', 'dd/mm/yyyy hh24:mi'),
6     TO_DATE('30/07/2024 12:30', 'dd/mm/yyyy hh24:mi') + 1/24 + 30/(24*60),
7     TO_DATE('30/07/2024 12:30', 'dd/mm/yyyy hh24:mi') + 1/24 + 30/(24*60),
8     '1C4SDHCT9FC614231',
9     ( SELECT DRIVER_ID FROM DRIVER WHERE UPPER(DRIVER_LICENCE) = UPPER('55052a543210') ),
10    ( SELECT LOCN_ID FROM LOCATION WHERE UPPER(LOCN_NAME) = UPPER('Olympic and Paralympic Village') ),
11    ( SELECT LOCN_ID FROM LOCATION WHERE UPPER(LOCN_NAME) = UPPER('Porte de la Chapelle Arena') ),
12    ( SELECT LANG_ISO_CODE FROM LANGUAGE WHERE UPPER(LANG_NAME) = UPPER('English') ),
13    OFF_ID_SEQ.CURRVAL
14 );

1 row inserted.

SQL>
SQL> INSERT INTO TRIP VALUES (
2     TRIP_ID_SEQ.NEXTVAL,
3     6,
4     TO_DATE('30/07/2024 20:00', 'dd/mm/yyyy hh24:mi'),
5     TO_DATE('30/07/2024 20:00', 'dd/mm/yyyy hh24:mi'),
6     TO_DATE('30/07/2024 20:00', 'dd/mm/yyyy hh24:mi') + 1/24 + 15/(24*60),
```

## Assignment 2 Feedback

```
7      TO_DATE('30/07/2024 20:00', 'dd/mm/yyyy hh24:mi') + 1/24 + 15/(24*60),
8      '1C4SDHCT9FC614231',
9      ( SELECT DRIVER_ID FROM DRIVER WHERE UPPER(DRIVER_LICENCE) = UPPER('55052a543210') ),
10     ( SELECT LOCN_ID FROM LOCATION WHERE UPPER(LOCN_NAME) = UPPER('Porte de la Chapelle Arena') ),
11     ( SELECT LOCN_ID FROM LOCATION WHERE UPPER(LOCN_NAME) = UPPER('Olympic and Paralympic Village') ),
12     ( SELECT LANG_ISO_CODE FROM LANGUAGE WHERE UPPER(LANG_NAME) = UPPER('English') ),
13     OFF_ID_SEQ.CURRVAL
14 );
```

1 row inserted.

SQL>

SQL> COMMIT;

Commit complete.

SQL>

SQL> /\*(d)\*/

SQL> UPDATE TRIP

```
2  SET
3      TRIP_ACT_PICKUPDT = TO_DATE(
4          '30/07/2024 12:30',
5          'dd/mm/yyyy hh24:mi'
6      ),
7      TRIP_ACT_DROPOFFDT = TO_DATE(
8          '30/07/2024 12:30',
9          'dd/mm/yyyy hh24:mi'
10     ) + 1/24 + 45/(
11         24*60
12     )
13 WHERE
14     TO_CHAR(TRIP_INT_PICKUPDT, 'dd/mm/yyyy hh24:mi') = '30/07/2024 12:30'
15     AND TO_CHAR(TRIP_INT_DROPOFFDT - 1/24 - 30/(24*60), 'dd/mm/yyyy hh24:mi') = '30/07/2024 12:30'
16     AND VEH_VIN = '1C4SDHCT9FC614231'
17     AND DRIVER_ID = (
18         SELECT
19             DRIVER_ID
20         FROM
21             DRIVER
22         WHERE
23             UPPER(DRIVER_LICENCE) = UPPER('55052a543210')
24     );
```

1 row updated.

SQL>

SQL> UPDATE TRIP

```
2  SET
3      TRIP_ACT_PICKUPDT = NULL,
4      TRIP_ACT_DROPOFFDT = NULL
5  WHERE
6      TO_CHAR(TRIP_INT_PICKUPDT, 'dd/mm/yyyy hh24:mi') = '30/07/2024 20:00'
7      AND TO_CHAR(TRIP_INT_DROPOFFDT - 1/24 - 15/1440, 'dd/mm/yyyy hh24:mi') = '30/07/2024 20:00'
8      AND VEH_VIN = '1C4SDHCT9FC614231'
9      AND DRIVER_ID = (
10         SELECT
```

## Assignment 2 Feedback

```
11         DRIVER_ID
12     FROM
13     DRIVER
14     WHERE
15         UPPER(DRIVER_LICENCE) = UPPER('55052a543210')
16     );
```

1 row updated.

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

Commit complete.

```
SQL>
SQL> DELETE FROM TRIP
2  WHERE
3      DRIVER_ID = (
4          SELECT
5              DRIVER_ID
6          FROM
7              DRIVER
8          WHERE
9              UPPER(DRIVER_LICENCE) = UPPER('55052a543210')
10     )
11     AND TRIP_INT_PICKUPDT > TO_DATE('30/07/2024 17:00', 'dd/mm/yyyy hh24:mi')
12     AND TRIP_INT_PICKUPDT < TO_DATE('31/07/2024 00:00', 'dd/mm/yyyy hh24:mi');
```

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	ZZZZZZZ	2022	11111	6	7

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

Assignment 2 Feedback

100		6	30/07/2024	12:30	30/07/2024	12:30	30/07/2024	14:00	30/07/2024	14:15	1C4SDHCT9FC614231
2014	113			111 en		100					
7		10	30/07/2024	16:45	30/07/2024	16:45	30/07/2024	18:00			4T1BK3DB2BU891397
2014	120			114 en		5					

## **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:35009411
SQL> --Student Name:Shuyang Yan
SQL>
SQL>
SQL> /* Comments for your marker:
SQL>In question a, I assume that the rule, 'The Chef de Mission of each country must be assigned an Administrator role',
SQL>also works when inserting new cdms into the table.
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> /*(a)*/
SQL> ALTER TABLE OFFICIAL
2      ADD (
3          OFF_ROLE CHAR(1),
4          CONSTRAINT CHK_OFF_ROLE CHECK (
5              (OFF_CDM IS NOT NULL AND OFF_ROLE IN ('G', 'A', 'H', 'C', 'P'))
6              OR (OFF_CDM IS NULL AND OFF_ROLE = 'A')
7          )
8      );
```

Table OFFICIAL altered.

```
SQL>
SQL> COMMENT ON COLUMN official.off_role IS
2      'Role of an official. G for General. A for Administrator. H for Head Coach. C for Coach. P for Phisician';
```

Comment created.

```
SQL>
SQL> UPDATE OFFICIAL
2      SET
3          OFF_ROLE = 'G'
4      WHERE
5          OFF_CDM IS NOT NULL;
```

3 rows updated.

```
SQL>
SQL> UPDATE OFFICIAL
2      SET
3          OFF_ROLE = 'A'
4      WHERE
5          OFF_CDM IS NULL;
```

13 rows updated.

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



## Assignment 2 Feedback

Commit complete.

```
SQL>
SQL> ALTER TABLE OFFICIAL MODIFY OFF_ROLE DEFAULT 'G' NOT NULL;
```

Table OFFICIAL altered.

```
SQL>
SQL> SELECT
  2     OFF_CDM,
  3     OFF_ROLE
  4 FROM
  5     OFFICIAL;
```

	OFF_CDM	OFF_ROLE
		A
1	G	A
3	G	A
		A
		A
		A
		A
		A
		A
		A
		A
14	G	A

16 rows selected.

```
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)

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

Error starting at line : 54 File @ Shuyang Yan\_2701096\_assignsubmission\_file/T4-pat-mods.sql  
In command -  
DROP TABLE COMPLAINT CASCADE CONSTRAINTS PURGE  
Error report -  
ORA-00942: table or view does not exist

## Assignment 2 Feedback

<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\_CATEGORY CASCADE CONSTRAINTS PURGE;

Error starting at line : 56 File @ Shuyang Yan\_2701096\_assignsubmission\_file/T4-pat-mods.sql  
In command -  
DROP TABLE COMPLAINT\_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> CREATE TABLE COMPLAINT (  
2 CPLT\_ID NUMBER(6) NOT NULL,  
3 TRIP\_ID NUMBER(4) NOT NULL,  
4 CPLT\_DATE DATE NOT NULL,  
5 CPLT\_CTG\_ID NUMBER(2) NOT NULL,  
6 CPLT\_COMMENT VARCHAR2(150) NOT NULL,  
7 CPLT\_FLAG CHAR(1)  
8 );

Table COMPLAINT created.

SQL>

SQL> COMMENT ON COLUMN COMPLAINT.CPLT\_ID IS  
2 'Identifier for a complaint.';

Comment created.

SQL>

SQL> COMMENT ON COLUMN COMPLAINT.TRIP\_ID IS  
2 'Identifier for a trip.';

## Assignment 2 Feedback

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN COMPLAINT.CPLT_DATE IS
2      'Date and time for the complaint.';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN COMPLAINT.CPLT_CTG_ID IS
2      'Identifier for a category of a complaint.';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN COMPLAINT.CPLT_COMMENT IS
2      'Detailed comment for a complaint.';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN COMPLAINT.CPLT_FLAG IS
2      'Flag for whether a complaint is valid or not. V for valid and I for invalid.';
```

Comment created.

```
SQL>
SQL> ALTER TABLE COMPLAINT
2      ADD (
3          CONSTRAINT COMPLAINT_PK PRIMARY KEY ( CPLT_ID ),
4          CONSTRAINT COMPLAINT_UQ UNIQUE ( TRIP_ID, CPLT_DATE ),
5          CONSTRAINT CHK_CPLT_FLAG CHECK ( CPLT_FLAG IN ('V', 'I'))
6      );
```

Table COMPLAINT altered.

```
SQL>
SQL> CREATE TABLE COMPLAINT_CATEGORY (
2      CPLT_CTG_ID NUMBER(2) NOT NULL,
3      CPLT_CTG_NAME VARCHAR2(30) NOT NULL,
4      CPLT_CTG_DM_POINT NUMBER(2) NOT NULL
5  );
```

Table COMPLAINT\_CATEGORY created.

```
SQL>
SQL> COMMENT ON COLUMN COMPLAINT_CATEGORY.CPLT_CTG_ID IS
2      'Identifier for a category of a complaint.';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN COMPLAINT_CATEGORY.CPLT_CTG_NAME IS
2      'Name for a category of a complaint.';
```

## Assignment 2 Feedback

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN COMPLAINT_CATEGORY.CPLT_CTG_DM_POINT IS
  2      'Demerit point for a category of a complaint.';
```

Comment created.

```
SQL>
SQL> ALTER TABLE COMPLAINT_CATEGORY
  2      ADD (
  3          CONSTRAINT COMPLAINT_CATEGORY_PK PRIMARY KEY ( CPLT_CTG_ID ),
  4          CONSTRAINT COMPLAINT_CATEGORY_UQ UNIQUE ( CPLT_CTG_NAME )
  5      );
```

Table COMPLAINT\_CATEGORY altered.

```
SQL>
SQL>
SQL>
SQL> ALTER TABLE COMPLAINT
  2      ADD (
  3          CONSTRAINT TRIP_COMPLAINT_FK FOREIGN KEY ( TRIP_ID ) REFERENCES TRIP ( TRIP_ID ),
  4          CONSTRAINT COMPLAINT_CATEGORY_COMPLAINT_FK FOREIGN KEY ( CPLT_CTG_ID ) REFERENCES COMPLAINT_CATEGORY ( CPLT_CTG_ID )
  5      );
```

Table COMPLAINT altered.

```
SQL>
SQL>
SQL>
SQL>
SQL> INSERT INTO COMPLAINT_CATEGORY VALUES (
  2      1,
  3      'late arrival',
  4      1
  5  );
```

1 row inserted.

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

1 row inserted.

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

## Assignment 2 Feedback

1 row inserted.

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

1 row inserted.

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

Commit complete.

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

CPLT_CTG_ID	CPLT_CTG_NAME	CPLT_CTG_DM_POINT
1	late arrival	1
2	rude behaviour	2
3	poor driving	2
4	failing to assist	1

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

Name	Null?	Type
CPLT_ID	NOT NULL	NUMBER(6)
TRIP_ID	NOT NULL	NUMBER(4)
CPLT_DATE	NOT NULL	DATE
CPLT_CTG_ID	NOT NULL	NUMBER(2)
CPLT_COMMENT	NOT NULL	VARCHAR2(150)
CPLT_FLAG		CHAR(1)

```
SQL>
SQL> desc COMPLAINT_CATEGORY;
```

Name	Null?	Type
CPLT_CTG_ID	NOT NULL	NUMBER(2)
CPLT_CTG_NAME	NOT NULL	VARCHAR2(30)
CPLT_CTG_DM_POINT	NOT NULL	NUMBER(2)

```
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

## Assignment 2 Feedback

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.

T4.B MARKED

## **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:35009411
SQL> --Student Name:Shuyang Yan
SQL>
SQL>
SQL> /* Comments for your marker:
SQL>In question b, assuming that a trip must actually start and end within the same day.
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> SELECT
  2     L.LOCN_ID,
  3     LOCN_NAME,
  4     LOCN_ADDRESS,
  5     LOCNTYPE_DESCRIPTION,
  6     NVL(PICKUP_COUNT, 0) + NVL(DROPOFF_COUNT, 0) AS "PICKUP/DROPOFF_COUNT"
  7 FROM
  8     LOCATION      L
  9     NATURAL JOIN LOCATION_TYPE
 10     LEFT OUTER JOIN (
 11         SELECT
 12             PICKUP_LOCN_ID AS LOCN_ID,
 13             COUNT(*)       AS PICKUP_COUNT
 14         FROM
 15             TRIP
 16         WHERE
 17             TRIP_ACT_DROPOFFDT IS NOT NULL
 18         GROUP BY
 19             PICKUP_LOCN_ID
 20     ) P
 21     ON L.LOCN_ID = P.LOCN_ID
 22     LEFT OUTER JOIN (
 23         SELECT
 24             DROPOFF_LOCN_ID AS LOCN_ID,
 25             COUNT(*)       AS DROPOFF_COUNT
 26         FROM
 27             TRIP
 28         WHERE
 29             TRIP_ACT_DROPOFFDT IS NOT NULL
 30         GROUP BY
 31             DROPOFF_LOCN_ID
 32     ) D
 33     ON L.LOCN_ID = D.LOCN_ID
 34 ORDER BY
```





## Assignment 2 Feedback

```
35      "PICKUP/DROPOFF_COUNT" DESC,
36      LOCN_ID;
```

LOCN_ID	LOCN_NAME	PICKUP/DROPOFF_COUNT	LOCN_ADDRESS
LOCNTYPE_DESCRIPTION			
113 Olympic and Paralympic village	Village	9	D1, 93200 Saint-Denis, France
114 Champions Park	Tourist attraction	5	75116 Paris, France
110 Pierre Mauroy Stadium	Stadium	4	261 Bd de Tournai, 59650 Villeneuve-d'Ascq, France
117 Tuileries Garden	Tourist attraction	4	75001 Paris, France
120 The Basilica of the Sacred Heart of Paris	Tourist attraction	4	35 Rue du Chevalier de la Barre, 75018 Paris, France
115 Eiffel Tower	Tourist attraction	3	Av. Gustave Eiffel, 75007 Paris, France
105 South Paris Arena	Arena	2	1 Pl. de la Prte de Versailles, 75015 Paris, France
107 North Paris Arena	Arena	2	Hall 8, 82 Av. des Nations, 93420 Villepinte, France
111 Porte de La Chapelle Arena	Arena	2	56 Bd Ney, 75018 Paris, France
112 Roland Garros Stadium	Stadium	2	2 Av. Gordon Bennett, 75016 Paris, France
121 Saint-Quentin-en-Yvelines Velodrome	Stadium	2	1 Rue Laurent Fignon, Pl. de la Paix Celeste, 78180 Montigny-le-Bretonneux, France
102 Bercy Arena	Arena	1	8 Bd de Bercy, 75012 Paris, France
103 Champ de Mars Arena	Arena	1	2 Pl. Joffre, 75007 Paris, France
104 Eiffel Tower Stadium	Stadium	1	Pl. Jacques Rueff, 75007 Paris, France
109 Paris La Defense Arena	Arena	1	99 Jard. de l'Arche, 92000 Nanterre, France
116 Louvre Museum	Tourist attraction	1	75001 Paris, France
118 Sainte-Chapelle	Tourist attraction	1	10 Bd du Palais, 75001 Paris, France
119 Arc de Triomphe	Tourist attraction	1	Pl. Charles de Gaulle, 75008 Paris, France
101 Bordeaux Stadium	Stadium	0	Cr Jules Ladoumegue, 33300 Bordeaux, France
106 La Beaujoire Stadium	Stadium	0	333 Rte de Saint-Joseph, 44300 Nantes, France
108 Parc des Princes	Stadium	0	24 Rue du Commandant Guilbaud, 75016 Paris, France

21 rows selected.

```
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
```

## Assignment 2 Feedback

SQL> -- (;) at the end of this answer

```
SQL> SELECT
  2     DRIVER_ID,
  3     TRIM(DRIVER_GIVEN
  4         || ' '
  5         || DRIVER_FAMILY) AS FULLNAME,
  6     NVL(LPAD(TO_CHAR(SUM(PAYMENT_A_TRIP), '$9990.99'), 20, ' '), 'No Trips') AS TOTAL_PERIOD_PAYMENT
  7 FROM
  8     DRIVER
  9     LEFT OUTER JOIN (
 10         SELECT
 11             DRIVER_ID,
 12             (TRIP_ACT_DROPOFFDT - TRIP_ACT_PICKUPDT) * 24 * 45.42 AS PAYMENT_A_TRIP
 13         FROM
 14             TRIP
 15         WHERE
 16             TRIP_ACT_DROPOFFDT BETWEEN TO_DATE('01/08/2024', 'dd/mm/yyyy') AND TO_DATE('07/08/2024', 'dd/mm/yyyy')
 17     )
 18     USING (DRIVER_ID)
 19 GROUP BY
 20     DRIVER_ID,
 21     DRIVER_GIVEN
 22     || ' '
 23     || DRIVER_FAMILY
 24 ORDER BY
 25     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	No Trips
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:35009411
SQL> --Student Name:Shuyang Yan
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> SELECT
  2     JSON_OBJECT(
  3         'id' VALUE DRIVER_ID,
  4         'name' VALUE TRIM(DRIVER_GIVEN
  5                             || ' ' || DRIVER_FAMILY),
  6         'licence_num' VALUE DRIVER_LICENCE,
  7         'no_of_trips' VALUE COUNT(T.TRIp_ACT_DROPOFFDT),
  8         'suspended' VALUE DRIVER_SUSPENDED,
  9         'trips_info' VALUE JSON_ARRAYAGG(
10             JSON_OBJECT(
11                 'trip_id' VALUE T.TRIp_ID,
12                 'veh_vin' VALUE VEH_VIN,
13                 'pick-up' VALUE
14                     JSON_OBJECT(
15                         'location_id' VALUE T.PICKUP_LOCN_ID,
16                         'location_name' VALUE L1.LOCN_NAME,
17                         'intended_datetime' VALUE TO_CHAR(T.TRIp_INT_PICKUPDT, 'dd/mm/yyyy hh24:mi'),
18                         'actual_datetime' VALUE TO_CHAR(T.TRIp_ACT_PICKUPDT, 'dd/mm/yyyy hh24:mi')
19                     ),
20                 'drop off' VALUE
21                     JSON_OBJECT(
22                         'location_id' VALUE T.DROPOFF_LOCN_ID,
23                         'location_name' VALUE L2.LOCN_NAME,
24                         'intended_datetime' VALUE TO_CHAR(T.TRIp_INT_DROPOFFDT, 'dd/mm/yyyy hh24:mi'),
25                         'actual_datetime' VALUE TO_CHAR(T.TRIp_ACT_DROPOFFDT, 'dd/mm/yyyy hh24:mi')
26                     )
27             )
28         )
29     )
30     FORMAT JSON)
31     || ','
32 FROM
33     DRIVER
34     NATURAL JOIN TRIp
35     JOIN LOCATION L1 ON T.PICKUP_LOCN_ID = L1.LOCN_ID
36     JOIN LOCATION L2 ON T.DROPOFF_LOCN_ID = L2.LOCN_ID
```

## Assignment 2 Feedback

```
37 WHERE
38     DRIVER_ID IN (
39         SELECT
40             DRIVER_ID
41         FROM
42             TRIP
43         WHERE
44             TRIP_ACT_DROPOFFDT IS NOT NULL ✗
45     )
46 GROUP BY
47     DRIVER_ID,
48     DRIVER_GIVEN
49     || ' ' ||
50     || DRIVER_FAMILY, ✓
51     DRIVER_LICENCE,
52     DRIVER_SUSPENDED
53 ORDER BY
54     DRIVER_ID;
```

```
JSON_OBJECT(' _ID' VALUEDRIVER_ID, 'NAME' VALUETRIM(DRIVER_GIVEN || ' ' || DRIVER_FAMILY), 'LICENCE_NUM' VALUEDRIVER_LICENCE, 'NO_OF_TRIPS' VALUECOUNT(T.
TRIP_ACT_DROPOFFDT), 'SUSPENDED' VALUEDRIVER_SUSPENDED, 'TRIPS_INFO' VALUEJSON_ARRAYAGG(JSON_OBJECT('TRIP_ID' VALUET
```

```
{"_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":"
```

## Assignment 2 Feedback

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":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":7,"veh_vin":"4T1BK3DB2BU891397","pick-up":{"location_id":120,"location_name":"The Basilica of the Sacred Heart of Paris","intended_datetime":"30/07/2024 16:45","actual_datetime":"30/07/2024 16:45"},"drop off":{"location_id":114,"location_name":"Champions Park","intended_datetime":"30/07/2024 18:00","actual_datetime":null}},{"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:35009411
// Student Name:Shuyang Yan

//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("syan0170");

// (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": 3,
    "suspended": "N",
    "trips_info": [
      {
        "trip_id": 1,
        "veh_vin": "qwhgjnsutvdjnf1",
        "pick-up": {
          "location_id": 101,
          "location_name": "Bordeaux Stadium",
          "intended_datetime": "21/07/2024 09:00",
          "actual_datetime": "21/07/2024 09:00"
        },
        "drop off": {
          "location_id": 102,
          "location_name": "Bercy Arena",
          "intended_datetime": "21/07/2024 10:00",
          "actual_datetime": "21/07/2024 10:00"
        }
      }
    ]
  },
  {
    "trip_id": 18,
    "veh_vin": "hhhhhhhhhhhhhhhh10",
    "pick-up": {

```

## Task 6 MongoDB

```
{
  "location_id": 109,
  "location_name": "Paris La Defense Arena",
  "intended_datetime": "23/07/2024 14:00",
  "actual_datetime": "23/07/2024 14:00"
},
{
  "drop off": {
    "location_id": 110,
    "location_name": "Pierre Mauroy Stadium",
    "intended_datetime": "23/07/2024 15:00",
    "actual_datetime": "23/07/2024 15:00"
  }
},
{
  "trip_id": 20,
  "veh_vin": "hhhhhhhhhhhhhhhh10",
  "pick-up": {
    "location_id": 101,
    "location_name": "Bordeaux Stadium",
    "intended_datetime": "22/07/2024 09:00",
    "actual_datetime": "22/07/2024 08:30"
  },
  "drop off": {
    "location_id": 103,
    "location_name": "Champ de Mars Arena",
    "intended_datetime": "22/07/2024 10:00",
    "actual_datetime": "22/07/2024 09:30"
  }
}
]
},
{
  "_id": 2002,
  "name": "Marie Dupont",
  "licence_num": "34082A789012",
  "no_of_trips": 2,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 17,
      "veh_vin": "gggggggggggggggg9",
      "pick-up": {
        "location_id": 101,
        "location_name": "Bordeaux Stadium",
        "intended_datetime": "22/07/2024 09:00",
        "actual_datetime": "22/07/2024 09:30"
      },
      "drop off": {
        "location_id": 103,
        "location_name": "Champ de Mars Arena",
        "intended_datetime": "22/07/2024 10:00",
        "actual_datetime": "22/07/2024 10:00"
      }
    },
    {
      "trip_id": 2,
      "veh_vin": "qwhgjnsutvdjnfrul",
    }
  ]
}
```

## Task 6 MongoDB

```
{
  "pick-up": {
    "location_id": 111,
    "location_name": "Porte de La Chapelle Arena",
    "intended_datetime": "21/07/2024 13:00",
    "actual_datetime": "21/07/2024 13:00"
  },
  "drop off": {
    "location_id": 113,
    "location_name": "Olympic and Paralympic village",
    "intended_datetime": "21/07/2024 14:30",
    "actual_datetime": "21/07/2024 14:30"
  }
},
{
  "_id": 2003,
  "name": "Louis Dubois",
  "licence_num": "45112B654321",
  "no_of_trips": 2,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 3,
      "veh_vin": "ashgntjfugnvdhfl2",
      "pick-up": {
        "location_id": 101,
        "location_name": "Bordeaux Stadium",
        "intended_datetime": "21/07/2024 09:00",
        "actual_datetime": "21/07/2024 09:00"
      },
      "drop off": {
        "location_id": 102,
        "location_name": "Bercy Arena",
        "intended_datetime": "21/07/2024 10:00",
        "actual_datetime": "21/07/2024 10:00"
      }
    },
    {
      "trip_id": 14,
      "veh_vin": "eeeeeeeeeeeeeeee7",
      "pick-up": {
        "location_id": 113,
        "location_name": "Olympic and Paralympic village",
        "intended_datetime": "22/07/2024 09:00",
        "actual_datetime": "22/07/2024 09:30"
      },
      "drop off": {
        "location_id": 105,
        "location_name": "South Paris Arena",
        "intended_datetime": "22/07/2024 11:00",
        "actual_datetime": "22/07/2024 11:00"
      }
    }
  ]
},
]
```

## Task 6 MongoDB

```
{
  "_id": 2004,
  "name": "Antoine Lefevre",
  "licence_num": "670495098765",
  "no_of_trips": 2,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 10,
      "veh_vin": "ccccccccccccccc5",
      "pick-up": {
        "location_id": 102,
        "location_name": "Bercy Arena",
        "intended_datetime": "25/07/2024 14:00",
        "actual_datetime": "25/07/2024 14:00"
      },
      "drop off": {
        "location_id": 103,
        "location_name": "Champ de Mars Arena",
        "intended_datetime": "25/07/2024 15:00",
        "actual_datetime": "25/07/2024 15:30"
      }
    },
    {
      "trip_id": 4,
      "veh_vin": "ashgntjfugnvdhfl2",
      "pick-up": {
        "location_id": 109,
        "location_name": "Paris La Defense Arena",
        "intended_datetime": "24/07/2024 12:00",
        "actual_datetime": "24/07/2024 12:30"
      },
      "drop off": {
        "location_id": 115,
        "location_name": "Eiffel Tower",
        "intended_datetime": "24/07/2024 13:00",
        "actual_datetime": "24/07/2024 13:00"
      }
    }
  ]
},
{
  "_id": 2005,
  "name": "Sophie Bernard",
  "licence_num": "89122a345678",
  "no_of_trips": 3,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 8,
      "veh_vin": "bbbbbbbbbbbbbbbbb4",
      "pick-up": {
        "location_id": 108,
        "location_name": "Parc des Princes",
        "intended_datetime": "29/07/2024 11:00",
        "actual_datetime": "29/07/2024 11:00"
      }
    }
  ]
}
```

## Task 6 MongoDB

```

    },
    "drop off": {
      "location_id": 106,
      "location_name": "La Beaujoire Stadium",
      "intended_datetime": "29/07/2024 12:30",
      "actual_datetime": "29/07/2024 13:00"
    }
  },
  {
    "trip_id": 9,
    "veh_vin": "bbbbbbbbbbbbbbbb4",
    "pick-up": {
      "location_id": 104,
      "location_name": "Eiffel Tower Stadium",
      "intended_datetime": "28/07/2024 10:30",
      "actual_datetime": "28/07/2024 10:30"
    },
    "drop off": {
      "location_id": 117,
      "location_name": "Tuileries Garden",
      "intended_datetime": "28/07/2024 11:30",
      "actual_datetime": "28/07/2024 11:30"
    }
  },
  {
    "trip_id": 19,
    "veh_vin": "hhhhhhhhhhhhhh10",
    "pick-up": {
      "location_id": 111,
      "location_name": "Porte de La Chapelle Arena",
      "intended_datetime": "24/07/2024 12:30",
      "actual_datetime": "24/07/2024 12:30"
    },
    "drop off": {
      "location_id": 116,
      "location_name": "Louvre Museum",
      "intended_datetime": "24/07/2024 14:00",
      "actual_datetime": "24/07/2024 14:30"
    }
  }
]
},
{
  "_id": 2006,
  "name": "Arman",
  "licence_num": "23072b567890",
  "no_of_trips": 2,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 6,
      "veh_vin": "nsjfwdbfuydbwsh3",
      "pick-up": {
        "location_id": 104,
        "location_name": "Eiffel Tower Stadium",
        "intended_datetime": "27/07/2024 11:00",

```

## Task 6 MongoDB

```
    "actual_datetime": "27/07/2024 11:00"
  },
  "drop off": {
    "location_id": 106,
    "location_name": "La Beaujoire Stadium",
    "intended_datetime": "27/07/2024 12:00",
    "actual_datetime": "27/07/2024 12:00"
  }
},
{
  "trip_id": 5,
  "veh_vin": "nsjfwbdbfuydbwsh3",
  "pick-up": {
    "location_id": 104,
    "location_name": "Eiffel Tower Stadium",
    "intended_datetime": "26/07/2024 12:00",
    "actual_datetime": "26/07/2024 12:00"
  },
  "drop off": {
    "location_id": 106,
    "location_name": "La Beaujoire Stadium",
    "intended_datetime": "26/07/2024 13:00",
    "actual_datetime": "26/07/2024 13:10"
  }
}
]
},
{
  "_id": 2007,
  "name": "Jean Moreau",
  "licence_num": "560903234567",
  "no_of_trips": 2,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 7,
      "veh_vin": "bbbbbbbbbbbbbbbb4",
      "pick-up": {
        "location_id": 114,
        "location_name": "Champions Park",
        "intended_datetime": "30/07/2024 11:30",
        "actual_datetime": "30/07/2024 11:30"
      },
      "drop off": {
        "location_id": 101,
        "location_name": "Bordeaux Stadium",
        "intended_datetime": "30/07/2024 12:30",
        "actual_datetime": "30/07/2024 12:30"
      }
    }
  ]
},
{
  "trip_id": 16,
  "veh_vin": "fffffffffffffffff8",
  "pick-up": {
    "location_id": 107,
    "location_name": "North Paris Arena",
```

## Task 6 MongoDB

```
    "intended_datetime": "23/07/2024 13:30",
    "actual_datetime": "23/07/2024 13:30"
  },
  "drop off": {
    "location_id": 108,
    "location_name": "Parc des Princes",
    "intended_datetime": "23/07/2024 15:00",
    "actual_datetime": "23/07/2024 14:30"
  }
}
]
},
{
  "_id": 2011,
  "name": "Mathieu Girard",
  "licence_num": "22102A456789",
  "no_of_trips": 1,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 11,
      "veh_vin": "ccccccccccccccc5",
      "pick-up": {
        "location_id": 105,
        "location_name": "South Paris Arena",
        "intended_datetime": "25/07/2024 10:00",
        "actual_datetime": "25/07/2024 10:15"
      },
      "drop off": {
        "location_id": 102,
        "location_name": "Bercy Arena",
        "intended_datetime": "25/07/2024 12:00",
        "actual_datetime": "25/07/2024 12:00"
      }
    }
  ]
},
{
  "_id": 2013,
  "name": "Lei Xiong",
  "licence_num": "441270890123",
  "no_of_trips": 2,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 22,
      "veh_vin": "ddddddddddddddd6",
      "pick-up": {
        "location_id": 118,
        "location_name": "Sainte-Chapelle",
        "intended_datetime": "06/08/2024 12:00",
        "actual_datetime": "06/08/2024 12:00"
      },
      "drop off": {
        "location_id": 116,
        "location_name": "Louvre Museum",
```



## Task 6 MongoDB

```
    "intended_datetime": "06/08/2024 13:00",
    "actual_datetime": "06/08/2024 13:00"
  }
},
{
  "trip_id": 12,
  "veh_vin": "ccccccccccccccc5",
  "pick-up": {
    "location_id": 106,
    "location_name": "La Beaujoire Stadium",
    "intended_datetime": "26/07/2024 11:00",
    "actual_datetime": "26/07/2024 11:00"
  },
  "drop off": {
    "location_id": 112,
    "location_name": "Roland Garros Stadium",
    "intended_datetime": "26/07/2024 12:30",
    "actual_datetime": "26/07/2024 12:30"
  }
}
]
},
{
  "_id": 2014,
  "name": "Claire Robert",
  "licence_num": "55052a543210",
  "no_of_trips": 2,
  "suspended": "N",
  "trips_info": [
    {
      "trip_id": 15,
      "veh_vin": "eeeeeeeeeeeeeee7",
      "pick-up": {
        "location_id": 114,
        "location_name": "Champions Park",
        "intended_datetime": "24/07/2024 14:00",
        "actual_datetime": "24/07/2024 14:00"
      },
      "drop off": {
        "location_id": 106,
        "location_name": "La Beaujoire Stadium",
        "intended_datetime": "24/07/2024 17:00",
        "actual_datetime": "24/07/2024 17:00"
      }
    },
    {
      "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,
```

## Task 6 MongoDB

```
        "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": 2,
    "suspended": "N",
    "trips_info": [
        {
            "trip_id": 21,
            "veh_vin": "ddddddddddddddd6",
            "pick-up": {
                "location_id": 115,
                "location_name": "Eiffel Tower",
                "intended_datetime": "05/08/2024 11:00",
                "actual_datetime": "05/08/2024 11:00"
            },
            "drop off": {
                "location_id": 116,
                "location_name": "Louvre Museum",
                "intended_datetime": "05/08/2024 12:00",
                "actual_datetime": "05/08/2024 12:00"
            }
        },
        {
            "trip_id": 13,
            "veh_vin": "ddddddddddddddd6",
            "pick-up": {
                "location_id": 112,
                "location_name": "Roland Garros Stadium",
                "intended_datetime": "01/08/2024 13:00",
                "actual_datetime": "01/08/2024 13:00"
            },
            "drop off": {
                "location_id": 105,
                "location_name": "South Paris Arena",
                "intended_datetime": "01/08/2024 14:30",
                "actual_datetime": "01/08/2024 15:00"
            }
        }
    ]
}
]
}
});

// 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
```

## Task 6 MongoDB

```
// (i) at the end of this answer
db.driver.find(
{
  $and: [
    { "trips_info.drop off.actual_datetime": { "$ne": null } },
    { "trips_info.drop off.location_name": {
      "$in": ["Champions Park", "Porte de La Chapelle Arena"]
    }
  }
]
},
{ "name": 1, "licence_num": 1 }
);

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

// Show document before the new trip is added and the driver is suspended
db.driver.find({ "_id": 2004 });
// Add new trip and set the driver to suspended
db.driver.updateOne(
{ "_id": 2004 },
{
  $push: {
    "trips_info": {
      "trip_id": 30,
      "veh_vin": "bbbbbbbbbbbbbbbb4",
      "pick-up": {
        "location_id": 117,
        "location_name": "Tuileries Garden",
        "intended_datetime": "10/08/2024 15:00",
        "actual_datetime": "10/08/2024 15:00"
      },
      "drop off": {
        "location_id": 118,
        "location_name": "Sainte-Chapelle",
        "intended_datetime": "10/08/2024 16:00",
        "actual_datetime": "10/08/2024 16:00"
      }
    }
  }
}
);

db.driver.updateOne({ "_id": 2004 }, { "$set": { "suspended": "Y" } });
db.driver.updateOne({ "_id": 2004 }, { "$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:35009411
// Student Name:Shuyang Yan
>> 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': 2011,
    '8': 2013,
    '9': 2014,
    '10': 2015
  }
}
>> List all documents you added
[
  {
    _id: 2001,
    name: 'Pierre Martin',
    licence_num: '120501123456',
    no_of_trips: 3,
    suspended: 'N',
    trips_info: [
      {
        trip_id: 1,
        veh_vin: 'qwhgjnsutvdjnfrul',
        'pick-up': {
          location_id: 101,
          location_name: 'Bordeaux Stadium',
          intended_datetime: '21/07/2024 09:00',
          actual_datetime: '21/07/2024 09:00'
        },
        'drop off': {
          location_id: 102,
          location_name: 'Bercy Arena',
          intended_datetime: '21/07/2024 10:00',
          actual_datetime: '21/07/2024 10:00'
        }
      },
      {
        trip_id: 18,
        veh_vin: 'hhhhhhhhhhhhhhhh10',
        'pick-up': {
          location_id: 109,
          location_name: 'Paris La Defense Arena',
          intended_datetime: '23/07/2024 14:00',
          actual_datetime: '23/07/2024 14:00'
        }
      }
    ]
  }
]
```

## Task 6 MongoDB

```
{
  'drop off': {
    location_id: 110,
    location_name: 'Pierre Mauroy Stadium',
    intended_datetime: '23/07/2024 15:00',
    actual_datetime: '23/07/2024 15:00'
  }
},
{
  trip_id: 20,
  veh_vin: 'hhhhhhhhhhhhhh10',
  'pick-up': {
    location_id: 101,
    location_name: 'Bordeaux Stadium',
    intended_datetime: '22/07/2024 09:00',
    actual_datetime: '22/07/2024 08:30'
  },
  'drop off': {
    location_id: 103,
    location_name: 'Champ de Mars Arena',
    intended_datetime: '22/07/2024 10:00',
    actual_datetime: '22/07/2024 09:30'
  }
}
]
},
{
  _id: 2002,
  name: 'Marie Dupont',
  licence_num: '34082A789012',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 17,
      veh_vin: 'gggggggggggggggg9',
      'pick-up': {
        location_id: 101,
        location_name: 'Bordeaux Stadium',
        intended_datetime: '22/07/2024 09:00',
        actual_datetime: '22/07/2024 09:30'
      },
      'drop off': {
        location_id: 103,
        location_name: 'Champ de Mars Arena',
        intended_datetime: '22/07/2024 10:00',
        actual_datetime: '22/07/2024 10:00'
      }
    },
    {
      trip_id: 2,
      veh_vin: 'qwhgjnsutvdjnfrul',
      'pick-up': {
        location_id: 111,
        location_name: 'Porte de La Chapelle Arena',
        intended_datetime: '21/07/2024 13:00',
```

## Task 6 MongoDB

```
    actual_datetime: '21/07/2024 13:00'
  },
  'drop off': {
    location_id: 113,
    location_name: 'Olympic and Paralympic village',
    intended_datetime: '21/07/2024 14:30',
    actual_datetime: '21/07/2024 14:30'
  }
}
]
},
{
  _id: 2003,
  name: 'Louis Dubois',
  licence_num: '45112B654321',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 3,
      veh_vin: 'ashgntjfugnvdhfl2',
      'pick-up': {
        location_id: 101,
        location_name: 'Bordeaux Stadium',
        intended_datetime: '21/07/2024 09:00',
        actual_datetime: '21/07/2024 09:00'
      },
      'drop off': {
        location_id: 102,
        location_name: 'Bercy Arena',
        intended_datetime: '21/07/2024 10:00',
        actual_datetime: '21/07/2024 10:00'
      }
    },
    {
      trip_id: 14,
      veh_vin: 'eeeeeeeeeeeeeeee7',
      'pick-up': {
        location_id: 113,
        location_name: 'Olympic and Paralympic village',
        intended_datetime: '22/07/2024 09:00',
        actual_datetime: '22/07/2024 09:30'
      },
      'drop off': {
        location_id: 105,
        location_name: 'South Paris Arena',
        intended_datetime: '22/07/2024 11:00',
        actual_datetime: '22/07/2024 11:00'
      }
    }
  ]
},
{
  _id: 2004,
  name: 'Antoine Lefevre',
  licence_num: '670495098765',
```

## Task 6 MongoDB

```
no_of_trips: 2,
suspended: 'N',
trips_info: [
  {
    trip_id: 10,
    veh_vin: 'cccccccccccccccc5',
    'pick-up': {
      location_id: 102,
      location_name: 'Bercy Arena',
      intended_datetime: '25/07/2024 14:00',
      actual_datetime: '25/07/2024 14:00'
    },
    'drop off': {
      location_id: 103,
      location_name: 'Champ de Mars Arena',
      intended_datetime: '25/07/2024 15:00',
      actual_datetime: '25/07/2024 15:30'
    }
  },
  {
    trip_id: 4,
    veh_vin: 'ashgntjfugnvdhfl2',
    'pick-up': {
      location_id: 109,
      location_name: 'Paris La Defense Arena',
      intended_datetime: '24/07/2024 12:00',
      actual_datetime: '24/07/2024 12:30'
    },
    'drop off': {
      location_id: 115,
      location_name: 'Eiffel Tower',
      intended_datetime: '24/07/2024 13:00',
      actual_datetime: '24/07/2024 13:00'
    }
  }
],
_id: 2005,
name: 'Sophie Bernard',
licence_num: '89122a345678',
no_of_trips: 3,
suspended: 'N',
trips_info: [
  {
    trip_id: 8,
    veh_vin: 'bbbbbbbbbbbbbbbb4',
    'pick-up': {
      location_id: 108,
      location_name: 'Parc des Princes',
      intended_datetime: '29/07/2024 11:00',
      actual_datetime: '29/07/2024 11:00'
    },
    'drop off': {
      location_id: 106,
      location_name: 'La Beaujoire Stadium',
```

## Task 6 MongoDB

```
    intended_datetime: '29/07/2024 12:30',
    actual_datetime: '29/07/2024 13:00'
  },
  {
    trip_id: 9,
    veh_vin: 'bbbbbbbbbbbbbbbb4',
    'pick-up': {
      location_id: 104,
      location_name: 'Eiffel Tower Stadium',
      intended_datetime: '28/07/2024 10:30',
      actual_datetime: '28/07/2024 10:30'
    },
    'drop off': {
      location_id: 117,
      location_name: 'Tuileries Garden',
      intended_datetime: '28/07/2024 11:30',
      actual_datetime: '28/07/2024 11:30'
    }
  },
  {
    trip_id: 19,
    veh_vin: 'hhhhhhhhhhhhhh10',
    'pick-up': {
      location_id: 111,
      location_name: 'Porte de La Chapelle Arena',
      intended_datetime: '24/07/2024 12:30',
      actual_datetime: '24/07/2024 12:30'
    },
    'drop off': {
      location_id: 116,
      location_name: 'Louvre Museum',
      intended_datetime: '24/07/2024 14:00',
      actual_datetime: '24/07/2024 14:30'
    }
  }
]
},
{
  _id: 2006,
  name: 'Arman',
  licence_num: '23072b567890',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 6,
      veh_vin: 'nsjfwbdbfuydbwsh3',
      'pick-up': {
        location_id: 104,
        location_name: 'Eiffel Tower Stadium',
        intended_datetime: '27/07/2024 11:00',
        actual_datetime: '27/07/2024 11:00'
      },
      'drop off': {
        location_id: 106,
```



## Task 6 MongoDB

```
    location_name: 'La Beaujoire Stadium',
    intended_datetime: '27/07/2024 12:00',
    actual_datetime: '27/07/2024 12:00'
  },
  {
    trip_id: 5,
    veh_vin: 'nsjfwhdbfuydbwsh3',
    'pick-up': {
      location_id: 104,
      location_name: 'Eiffel Tower Stadium',
      intended_datetime: '26/07/2024 12:00',
      actual_datetime: '26/07/2024 12:00'
    },
    'drop off': {
      location_id: 106,
      location_name: 'La Beaujoire Stadium',
      intended_datetime: '26/07/2024 13:00',
      actual_datetime: '26/07/2024 13:10'
    }
  }
]
},
{
  _id: 2007,
  name: 'Jean Moreau',
  licence_num: '560903234567',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 7,
      veh_vin: 'bbbbbbbbbbbbbbbb4',
      'pick-up': {
        location_id: 114,
        location_name: 'Champions Park',
        intended_datetime: '30/07/2024 11:30',
        actual_datetime: '30/07/2024 11:30'
      },
      'drop off': {
        location_id: 101,
        location_name: 'Bordeaux Stadium',
        intended_datetime: '30/07/2024 12:30',
        actual_datetime: '30/07/2024 12:30'
      }
    },
    {
      trip_id: 16,
      veh_vin: 'fffffffffffffffff8',
      'pick-up': {
        location_id: 107,
        location_name: 'North Paris Arena',
        intended_datetime: '23/07/2024 13:30',
        actual_datetime: '23/07/2024 13:30'
      },
      'drop off': {
```

## Task 6 MongoDB

```

location_id: 108,
location_name: 'Parc des Princes',
intended_datetime: '23/07/2024 15:00',
actual_datetime: '23/07/2024 14:30'
}
}
],
{
_id: 2011,
name: 'Mathieu Girard',
licence_num: '22102A456789',
no_of_trips: 1,
suspended: 'N',
trips_info: [
{
trip_id: 11,
veh_vin: 'cccccccccccccccc5',
'pick-up': {
location_id: 105,
location_name: 'South Paris Arena',
intended_datetime: '25/07/2024 10:00',
actual_datetime: '25/07/2024 10:15'
},
'drop off': {
location_id: 102,
location_name: 'Bercy Arena',
intended_datetime: '25/07/2024 12:00',
actual_datetime: '25/07/2024 12:00'
}
}
]
},
{
_id: 2013,
name: 'Lei Xiong',
licence_num: '441270890123',
no_of_trips: 2,
suspended: 'N',
trips_info: [
{
trip_id: 22,
veh_vin: 'dddddddddddddd6',
'pick-up': {
location_id: 118,
location_name: 'Sainte-Chapelle',
intended_datetime: '06/08/2024 12:00',
actual_datetime: '06/08/2024 12:00'
},
'drop off': {
location_id: 116,
location_name: 'Louvre Museum',
intended_datetime: '06/08/2024 13:00',
actual_datetime: '06/08/2024 13:00'
}
}
]
},
]
}

```

## Task 6 MongoDB

```
{
  trip_id: 12,
  veh_vin: 'ccccccccccccccc5',
  'pick-up': {
    location_id: 106,
    location_name: 'La Beaujoire Stadium',
    intended_datetime: '26/07/2024 11:00',
    actual_datetime: '26/07/2024 11:00'
  },
  'drop off': {
    location_id: 112,
    location_name: 'Roland Garros Stadium',
    intended_datetime: '26/07/2024 12:30',
    actual_datetime: '26/07/2024 12:30'
  }
},
]
},
{
  _id: 2014,
  name: 'Claire Robert',
  licence_num: '55052a543210',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 15,
      veh_vin: 'eeeeeeeeeeeeeee7',
      'pick-up': {
        location_id: 114,
        location_name: 'Champions Park',
        intended_datetime: '24/07/2024 14:00',
        actual_datetime: '24/07/2024 14:00'
      },
      'drop off': {
        location_id: 106,
        location_name: 'La Beaujoire Stadium',
        intended_datetime: '24/07/2024 17:00',
        actual_datetime: '24/07/2024 17:00'
      }
    },
    {
      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'
      }
    }
  ]
}
```

## Task 6 MongoDB

```
    }
  ]
},
{
  _id: 2015,
  name: 'Nathalie Renaud',
  licence_num: '660725432109',
  no_of_trips: 2,
  suspended: 'N',
  trips_info: [
    {
      trip_id: 21,
      veh_vin: 'ddddddddddddddd6',
      'pick-up': {
        location_id: 115,
        location_name: 'Eiffel Tower',
        intended_datetime: '05/08/2024 11:00',
        actual_datetime: '05/08/2024 11:00'
      },
      'drop off': {
        location_id: 116,
        location_name: 'Louvre Museum',
        intended_datetime: '05/08/2024 12:00',
        actual_datetime: '05/08/2024 12:00'
      }
    },
    {
      trip_id: 13,
      veh_vin: 'ddddddddddddddd6',
      'pick-up': {
        location_id: 112,
        location_name: 'Roland Garros Stadium',
        intended_datetime: '01/08/2024 13:00',
        actual_datetime: '01/08/2024 13:00'
      },
      'drop off': {
        location_id: 105,
        location_name: 'South Paris Arena',
        intended_datetime: '01/08/2024 14:30',
        actual_datetime: '01/08/2024 15:00'
      }
    }
  ]
}
]
}
]
>> Task (c) -----
Drop off (trips_info.drop off.location_name) matches in student documents: 1
[
  {
    _id: 2014,
    name: 'Claire Robert',
    licence_num: '55052a543210'
  }
]
>> Task (d) -----
Driver 2004 matches in student documents: 1
```

## Task 6 MongoDB

```
[
  {
    _id: 2004,
    name: 'Antoine Lefevre',
    licence_num: '670495098765',
    no_of_trips: 2,
    suspended: 'N',
    trips_info: [
      {
        trip_id: 10,
        veh_vin: 'cccccccccccccccc5',
        'pick-up': {
          location_id: 102,
          location_name: 'Bercy Arena',
          intended_datetime: '25/07/2024 14:00',
          actual_datetime: '25/07/2024 14:00'
        },
        'drop off': {
          location_id: 103,
          location_name: 'Champ de Mars Arena',
          intended_datetime: '25/07/2024 15:00',
          actual_datetime: '25/07/2024 15:30'
        }
      },
      {
        trip_id: 4,
        veh_vin: 'ashgntjfugnvdhfl2',
        'pick-up': {
          location_id: 109,
          location_name: 'Paris La Defense Arena',
          intended_datetime: '24/07/2024 12:00',
          actual_datetime: '24/07/2024 12:30'
        },
        'drop off': {
          location_id: 115,
          location_name: 'Eiffel Tower',
          intended_datetime: '24/07/2024 13:00',
          actual_datetime: '24/07/2024 13:00'
        }
      }
    ]
  }
]
]>> Add new trip and set the driver to suspended
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
```

## Task 6 MongoDB

```
    upsertedCount: 0
  }
  {
    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: 3,
    suspended: 'Y',
    trips_info: [
      {
        trip_id: 10,
        veh_vin: 'ccccccccccccccc5',
        'pick-up': {
          location_id: 102,
          location_name: 'Bercy Arena',
          intended_datetime: '25/07/2024 14:00',
          actual_datetime: '25/07/2024 14:00'
        },
        'drop off': {
          location_id: 103,
          location_name: 'Champ de Mars Arena',
          intended_datetime: '25/07/2024 15:00',
          actual_datetime: '25/07/2024 15:30'
        }
      },
      {
        trip_id: 4,
        veh_vin: 'ashgntjfugnvdhfl2',
        'pick-up': {
          location_id: 109,
          location_name: 'Paris La Defense Arena',
          intended_datetime: '24/07/2024 12:00',
          actual_datetime: '24/07/2024 12:30'
        },
        'drop off': {
          location_id: 115,
          location_name: 'Eiffel Tower',
          intended_datetime: '24/07/2024 13:00',
          actual_datetime: '24/07/2024 13:00'
        }
      }
    ]
  },
  {
    trip_id: 30,
    veh_vin: 'bbbbbbbbbbbbbbbbb4',
    'pick-up': {
      location_id: 117,
      location_name: 'Tuileries Garden',
```

## Task 6 MongoDB

```
intended_datetime: '10/08/2024 15:00',  
actual_datetime: '10/08/2024 15:00'  
},  
'drop off': {  
  location_id: 118,  
  location_name: 'Sainte-Chapelle',  
  intended_datetime: '10/08/2024 16:00',  
  actual_datetime: '10/08/2024 16:00'  
}  
}  
]  
}
```