Information and Database Management Systems I

(CIS 4301 UF Online)

Fall 2024

Instructor: Alexander Webber

TA: Kyuseo Park

Homework 2

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Instructions: Please provide your answers to the questions of the following pages in Word or handwritten on separate sheets of paper. Mark clearly to which question each answer belongs. Then convert or scan your work into PDF (the latter by using either a scanner or a suitable scanner app on your smartphone). Note that *only the PDF format* is allowed and that your submission must be a *zipped* along with your source code and work for Question 5. In order to enable the graders to fast find the solutions to your questions, it is important that you correctly specify the location of your answer for each question.

Note: All homework assignments are designed for a period of two, three, or even four weeks (see course deadline sheet). This means they cannot be solved in two or three hours but require a considerable amount of time and effort. Therefore, the first recommendation is to start with them as soon as they are posted. The second recommendation is to distribute the work on a homework assignment over the entire available period. The third recommendation is to submit the homework solutions *on time before the deadline*.

Pledge (Must be signed[1] according to the UF Honor Code):

On my honor, I have neither given nor received unauthorized aid in doing this assignment.

Student signature

[1]Each student is obliged to print out this page, fill in the requested information in a handwritten and readable manner, make the *handwritten* signature, scan this page into PDF, and put this page as the first page of the PDF submission.

1)

A) $\rho_{E1}(\pi_{PatientID,DepartmentID}(PatientTreatments \bowtie Physicians))$
$\rho_{E2}(\pi_{PatientID,DepartmentID}(PatientTreatments \bowtie Nurses))$
$\pi_{FirstName,LastName,DepartmentID}(Patients \bowtie E1 \bowtie E2)$

B) $\rho_{E1}(\pi_{PatientID}(\sigma_{FirstName="PatientA"}(Patients)) \cup \pi_{PatientID}(\sigma_{FirstName="PatientB"}(Patients)))$
$\rho_{E2}(\pi_{PhysicianI\ ,PatientID}(\sigma_{date\ \ "Nov\ 11"}(Appointments)))$
$\rho_{E3}(\pi_{PhysicianID}(E1 \bowtie E2))$
$\pi_{FirstName,LastName}(Physicians \bowtie E3)$

C) $\rho_{E1}(\pi_{PhysicianI\ \ }(\sigma_{Name=Gene\ \ \ \ Sugery}(Departments \bowtie Physicians)))$
$\rho_{E2}(\pi_{PhysicianI\ \ }(\sigma_{FirstName="NurseA}(Nurses \bowtie PatientTreatments \bowtie E1)))$
$\pi_{FirstName,LastName}(E2 \bowtie Physicians)$

D) $\rho_{E1}(\pi_{PatientID}(\sigma_{Physicians.FirstName="PhysicianA"}(Patients \bowtie Physicians \bowtie Appointments)))$
$\rho_{E1}(\pi_{PatientID}(PatientTreatments)$
$\pi_{FirstName,LastName}(E1 - E2)$

E) $\rho_{E1}(\pi_{PatientID,,Cost}(PatientTreatments \bowtie Patients \bowtie Treatments))$
$\rho_{E4}(\pi_{PatientID}(\pi_{PatientID}(E1) - \pi_{PatientID}(\sigma_{E2.Cost>E3.Cost}(\rho_{E2}(E1)X\ \rho_{E3}(E1)))))$
$\pi_{FirstName,LastName,Cost}(E1 \bowtie E4)$

2)

A) $\pi_{Date,Location,Description}(\sigma_{Name="pilotA"}(Accidents \bowtie FlightPilotAssignments \bowtie Pilots))$

B) $\rho_{E1}(CrewMembers \div \pi_{CrewID}(\sigma_{Name="PilotA"}(FlightCrewAssignments \bowtie FlightPulotAssignments \bowtie Pilots)))$
$\pi_{FirstName,LastName}(CrewMembers \bowtie E1)$

C) $\rho_{E1}(\pi_{AircraftID}(Accidents \bowtie Flights))$
$\pi_{ModelName,Manufacturer}(Aircraft - E1)$

D) $\rho_{E1}(\pi_{CrewID}(\sigma_{YearsOfExper\ \ \ \ \ \ \ \ }(CrewMembers)))$
$\rho_{E2}(\pi_{CrewID}(FlightCrewAssignments \bowtie FlightPilotAssignments \bowtie \sigma_{Name\ \ "pilotA"}(Pilots)))$
$\pi_{FirstName,LastName}(CrewMembers \bowtie (E1 \cap E2))$

E) $\rho_{E1}(\pi_{FlightID}(\sigma_{Origin="New\ York"\ \wedge Destination\ \ "London"\wedge Date="December\ 25}(Flights)))$
$\pi_{\ FirstName,LastName}(E1 \bowtie Tickets \bowtie Passengers)$

3)

A) $\sigma_{F1\ \wedge\ F2\ \wedge\ F3\ \wedge\ F4(R)}$
This expression runs in O(r), evaluating each tuple in R only once. It is optimal as each tuple in a select operation needs to be read, evaluated, and possibly written at least once, and this query evaluate each of the 4 filter functions on the same tuple without needs to iterate through the data more than once.

B) $L1 \subseteq\ L2 \subseteq\ L3$

This condition ensures that subsequent project operations do not attempt to store previously eliminated attributes. The expression could be optimized by eliminating the L2 and L3 projections, as either way, we still will only end up with the L1 projection.

C) Possibly but not always. In order for $\sigma_F(\pi_A)$ to be equivalent to $\pi_F(\sigma_A)$, all of the attributes that are being used in F must be present in A. This is not the case for $\pi_F(\sigma_A)$.

D) This is not a valid operation. For difference operations, R1 and R2 must be schema compliant.

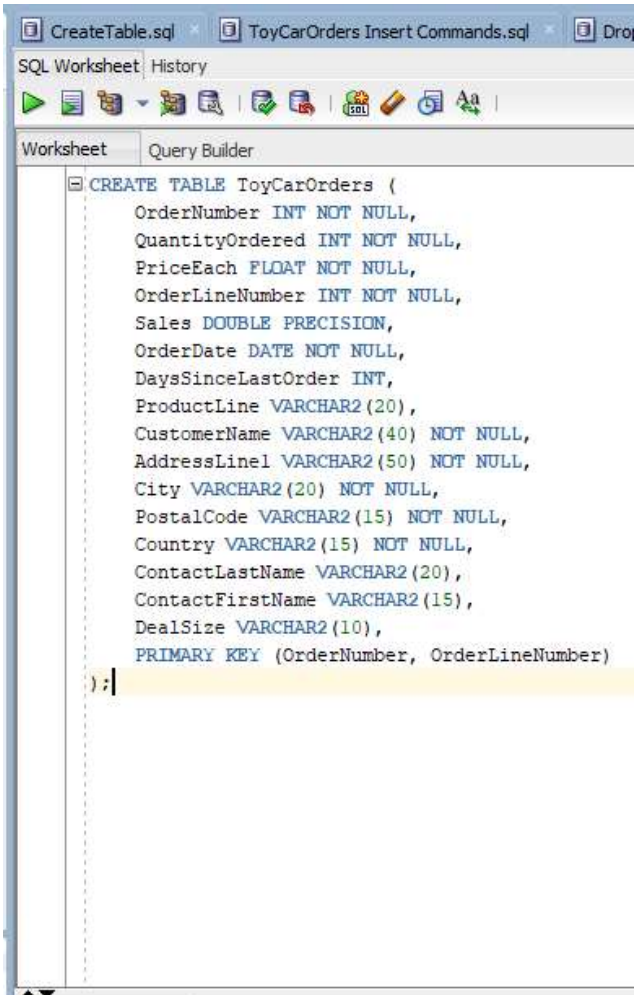
4)
A) Minimum 0, occurs where no tuples are similar between R and T (R intersect T yields null set). Maximum is the smaller of r and t (min(r, t)), occurs when one (or both) of r or t is a subset of the other.

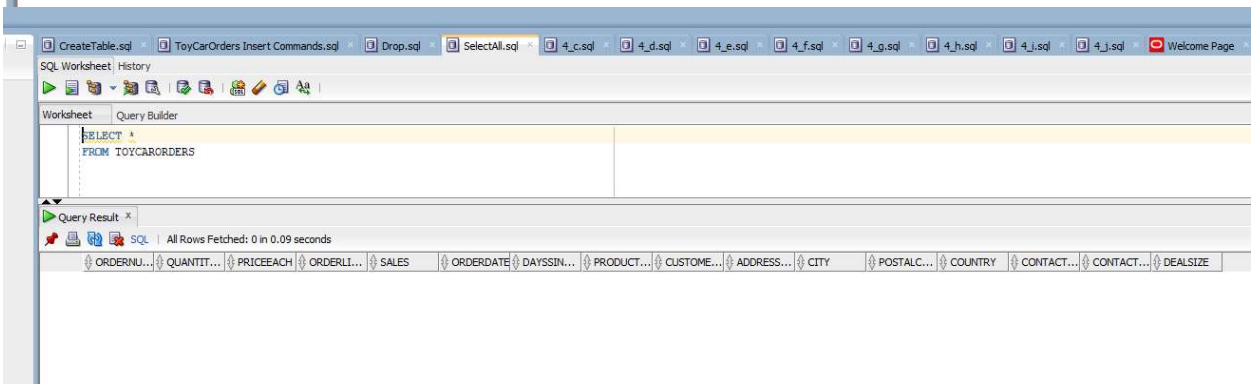
B) Minimum 0, occurs where no tuples are similar between R and T (R intersect T yields null set). Maximum is the smaller of r and t (min(r, t)), occurs when one (or both) of r or t is a subset of the other.

C) The minimum is max(r,s), occurs when one of R or S is a subset of the other. The maximum is r + s, occurs when R and S are disjoint (R union S yields null set).

D) Minimum 0, occurs where no tuples are similar between R and T (R intersect T yields null set). Maximum r, occurs when all tuples in R have a match in T.

5)
Task 1


CreateTable.sql
ToyCarOrders Insert Commands.sql
SQL Worksheet
History
Worksheet
Query Builder
CREATE TABLE ToyCarOrders (
OrderNumber INT NOT NULL,
QuantityOrdered INT NOT NULL,
PriceEach FLOAT NOT NULL,
OrderLineNumber INT NOT NULL,
Sales DOUBLE PRECISION,
OrderDate DATE NOT NULL,
DaysSinceLastOrder INT,
ProductLine VARCHAR2(20),
CustomerName VARCHAR2(40) NOT NULL,
AddressLine1 VARCHAR2(50) NOT NULL,
City VARCHAR2(20) NOT NULL,
PostalCode VARCHAR2(15) NOT NULL,
Country VARCHAR2(15) NOT NULL,
ContactLastName VARCHAR2(20),
ContactFirstName VARCHAR2(15),
DealSize VARCHAR2(10),
PRIMARY KEY (OrderNumber, OrderLineNumber)
);
Script Output
Task completed in 0.119 seconds
Table TOYCARORDERS created.


CreateTable.sql
ToyCarOrders Insert Commands.sql
Drop.sql
SelectAll.sql
Welcome Page
SQL Worksheet
History
Worksheet
Query Builder
SELECT *
FROM TOYCARORDERS
Query Result
All Rows Fetched: 0 in 0.09 seconds
ORDERNU...
QUANTIT...
PRICEEACH
ORDERLI...
SALES
ORDERDATE
DAYSSIN...
PRODUCT...
CUSTOME...
ADDRESS...
CITY
POSTALC...
COUNTRY
CONTACT...
CONTACT...
DEALSIZE

Task 3

I utilized a python script to transform the data as specified. Code is shown here:

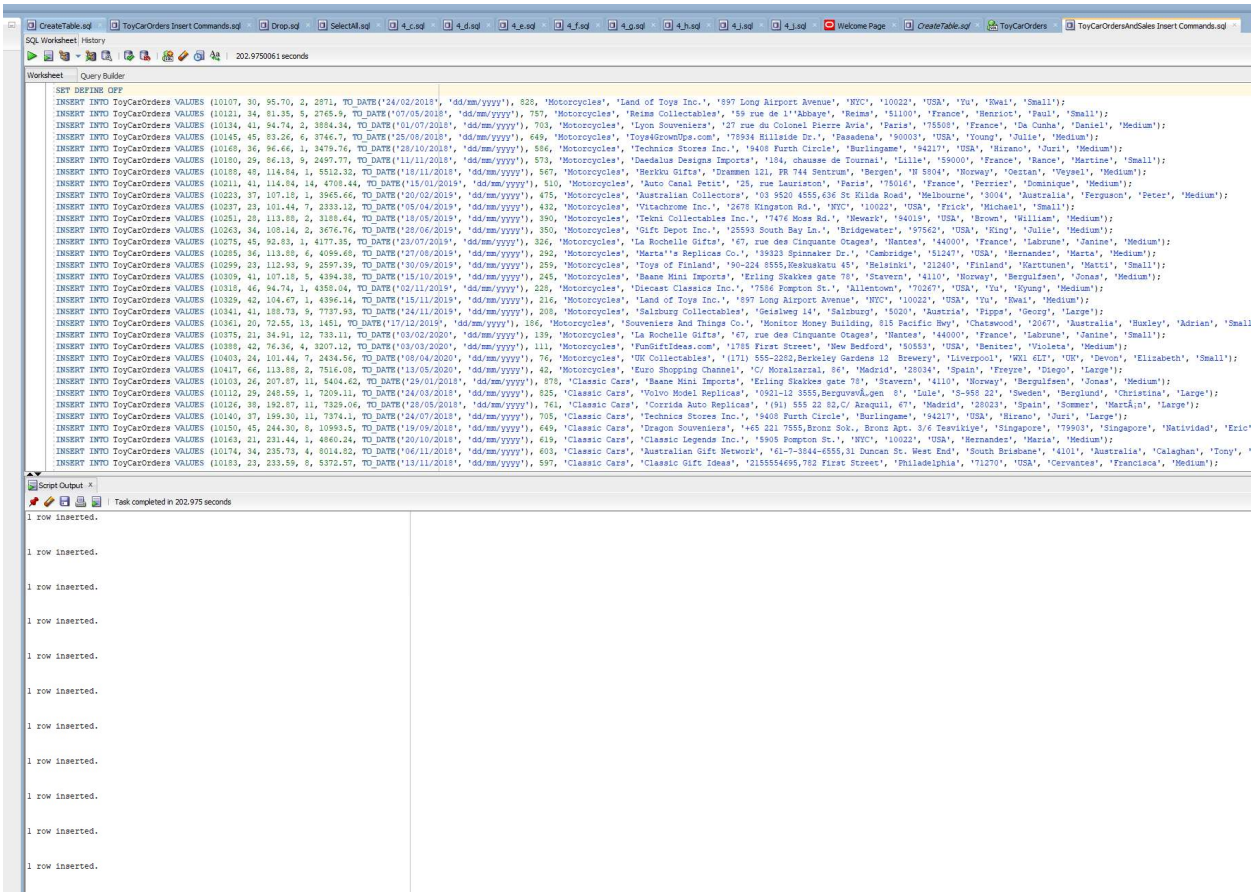
```
from operator import itemgetter

USECOLS = [0, 1, 2, 3, 4, 5, 6, 8, 11, 13, -6, -5, -4, -3, -2, -1]

with open("UF\CIS4301\m4\ToyCarOrdersAndSales Insert Commands.sql", "w") as write_file:
    # Ignore '&'
    write_file.write("SET DEFINE OFF\n")
    with open("UF\CIS4301\m4\Auto Sales data.csv", "r") as read_file:
        for line in read_file.readlines()[1:]:
            # Split data, remove random "'s, escape single '
            data = line.replace('"', "").replace("'", "''").strip().split(",")
            # Check if adress got split
            if len(data) > 20:
                data[13] = ",".join(data[13 : 13 + len(data) - 19])
            # Get needed columns, swap to list to allow edit to date column
            data = list(itemgetter(*USECOLS)(data))
            # Add "TO_DATE" to date data
            data[5] = f"TO_DATE('{data[5]}', 'dd/mm/yyyy')"
            # Add ' to str columns
            for col in range(7, len(data)):
                data[col] = f"'{data[col]}'"
            # Assemble line for file
            line_data = ", ".join(data)
            write_str = f"INSERT INTO ToyCarOrders VALUES ({line_data});"
            # Write to file
            write_file.write(write_str + "\n")
```

Starting from the top, I first open the write file, and before anything else, add the command “SET DEFINE OFF”. This command prevents SQL Developer from asking for an input variable whenever a “&” is discovered in a string. Next the read file is opened. Starting from the first line of data, each line is read, any random quotation marks are removed, single quotes are escaped with double single quotes (to prevent the program from thinking the string has ended prematurely), ‘\n’’s are stripped from the end of the line, and finally split into a list by commas. Then the script checks whether the address block had any commas which caused an undesired split, and if this occurred, reconsolidates the address data. Then, the data from non-desired columns is eliminated. After that, the date is converted to the desired SQL format using f-strings and single quotes are added around the remaining string data. Finally, the list of data is recombined with commas, wrapped with the necessary SQL INSERT commands, and written into the desired file.

Task 4



```
SET DEFINE OFF
INSERT INTO ToyCarOrders VALUES (10107, 30, 95.70, 2, 2871, TO_DATE('24/02/2018', 'dd/mm/yyyy'), 828, 'Motorcycles', 'Land of Toys Inc.', '897 Long Airport Avenue', 'NYC', '10022', 'USA', 'Yu', 'Kwai', 'Small');
INSERT INTO ToyCarOrders VALUES (10121, 34, 81.35, 5, 2765.9, TO_DATE('07/05/2018', 'dd/mm/yyyy'), 757, 'Motorcycles', 'Reims Collectables', '59 rue de l''Abbaye', 'Reims', '51100', 'France', 'Henriot', 'Paul', 'Small');
INSERT INTO ToyCarOrders VALUES (10134, 41, 94.74, 2, 3884.34, TO_DATE('01/07/2018', 'dd/mm/yyyy'), 703, 'Motorcycles', 'Lyon Souveniers', '27 rue du Colonel Pierre Avia', 'Paris', '75508', 'France', 'Da Cunha', 'Daniel', 'Medium');
INSERT INTO ToyCarOrders VALUES (10145, 45, 83.26, 6, 3746.7, TO_DATE('25/08/2018', 'dd/mm/yyyy'), 649, 'Motorcycles', 'Toys4GrownUps.com', '78934 Hillside Dr.', 'Pasadena', '90003', 'USA', 'Young', 'Julie', 'Medium');
INSERT INTO ToyCarOrders VALUES (10168, 36, 96.66, 1, 3479.76, TO_DATE('28/10/2018', 'dd/mm/yyyy'), 586, 'Motorcycles', 'Technics Stores Inc.', '9408 Furth Circle', 'Burlingame', '94217', 'USA', 'Hirano', 'Juri', 'Medium');
INSERT INTO ToyCarOrders VALUES (10180, 29, 86.13, 9, 2497.77, TO_DATE('11/11/2018', 'dd/mm/yyyy'), 573, 'Motorcycles', 'Daedalus Designs Imports', '184, chausse de Tournai', 'Lille', '59000', 'France', 'Rance', 'Martine', 'Small');
INSERT INTO ToyCarOrders VALUES (10188, 48, 114.84, 1, 5512.32, TO_DATE('18/11/2018', 'dd/mm/yyyy'), 567, 'Motorcycles', 'Herkku Gifts', 'Drammen 121, PR 744 Sentrum', 'Bergen', 'N 5804', 'Norway', 'Oeztan', 'Veysel', 'Medium');
INSERT INTO ToyCarOrders VALUES (10211, 41, 114.84, 14, 4708.44, TO_DATE('15/01/2019', 'dd/mm/yyyy'), 510, 'Motorcycles', 'Auto Canal Petit', '25, rue Lauriston', 'Paris', '75016', 'France', 'Perrier', 'Dominique', 'Medium');
INSERT INTO ToyCarOrders VALUES (10223, 37, 107.18, 1, 3965.66, TO_DATE('20/02/2019', 'dd/mm/yyyy'), 475, 'Motorcycles', 'Australian Collectors', '03 9520 4555,636 St Kilda Road', 'Melbourne', '3004', 'Australia', 'Ferguson', 'Peter', 'Medium');
INSERT INTO ToyCarOrders VALUES (10237, 23, 101.44, 7, 2333.12, TO_DATE('05/04/2019', 'dd/mm/yyyy'), 432, 'Motorcycles', 'Vitachrome Inc.', '2678 Kingston Rd.', 'NYC', '10022', 'USA', 'Frick', 'Michael', 'Small');
INSERT INTO ToyCarOrders VALUES (10251, 28, 113.88, 2, 3188.64, TO_DATE('18/05/2019', 'dd/mm/yyyy'), 390, 'Motorcycles', 'Tekni Collectables Inc.', '7476 Moss Rd.', 'Newark', '94019', 'USA', 'Brown', 'William', 'Medium');
INSERT INTO ToyCarOrders VALUES (10263, 34, 108.14, 2, 3676.76, TO_DATE('28/06/2019', 'dd/mm/yyyy'), 350, 'Motorcycles', 'Gift Depot Inc.', '25593 South Bay Ln.', 'Bridgewater', '97562', 'USA', 'King', 'Julie', 'Medium');
INSERT INTO ToyCarOrders VALUES (10275, 45, 92.83, 1, 4177.35, TO_DATE('23/07/2019', 'dd/mm/yyyy'), 326, 'Motorcycles', 'La Rochelle Gifts', '67, rue des Cinquante Otages', 'Nantes', '44000', 'France', 'Labrune', 'Janine', 'Medium');
INSERT INTO ToyCarOrders VALUES (10285, 36, 113.88, 6, 4099.68, TO_DATE('27/08/2019', 'dd/mm/yyyy'), 292, 'Motorcycles', 'Marta''s Replicas Co.', '39323 Spinnaker Dr.', 'Cambridge', '51247', 'USA', 'Hernandez', 'Marta', 'Medium');
INSERT INTO ToyCarOrders VALUES (10299, 23, 112.93, 9, 2597.39, TO_DATE('30/09/2019', 'dd/mm/yyyy'), 259, 'Motorcycles', 'Toys of Finland', '90-224 8555,Keskuskatu 45', 'Helsinki', '21240', 'Finland', 'Karttunen', 'Matti', 'Small');
INSERT INTO ToyCarOrders VALUES (10309, 41, 107.18, 5, 4394.38, TO_DATE('15/10/2019', 'dd/mm/yyyy'), 245, 'Motorcycles', 'Baane Mini Imports', 'Erling Skakkes gate 78', 'Stavern', '4110', 'Norway', 'Bergulfsen', 'Jonas', 'Medium');
INSERT INTO ToyCarOrders VALUES (10318, 46, 94.74, 1, 4358.04, TO_DATE('02/11/2019', 'dd/mm/yyyy'), 228, 'Motorcycles', 'Diecast Classics Inc.', '7586 Pompton St.', 'Allentown', '70267', 'USA', 'Yu', 'Kyung', 'Medium');
INSERT INTO ToyCarOrders VALUES (10329, 42, 104.67, 1, 4396.14, TO_DATE('15/11/2019', 'dd/mm/yyyy'), 216, 'Motorcycles', 'Land of Toys Inc.', '897 Long Airport Avenue', 'NYC', '10022', 'USA', 'Yu', 'Kwai', 'Medium');
INSERT INTO ToyCarOrders VALUES (10341, 41, 188.73, 9, 7737.93, TO_DATE('24/11/2019', 'dd/mm/yyyy'), 208, 'Motorcycles', 'Salzburg Collectables', 'Geislweg 14', 'Salzburg', '5020', 'Austria', 'Pipps', 'Georg', 'Large');
INSERT INTO ToyCarOrders VALUES (10361, 20, 72.55, 13, 1451, TO_DATE('17/12/2019', 'dd/mm/yyyy'), 186, 'Motorcycles', 'Souveniers And Things Co.', 'Monitor Money Building, 815 Pacific Hwy', 'Chatswood', '2067', 'Australia', 'Huxley', 'Adrian', 'Small
INSERT INTO ToyCarOrders VALUES (10375, 21, 34.91, 12, 733.11, TO_DATE('03/02/2020', 'dd/mm/yyyy'), 139, 'Motorcycles', 'La Rochelle Gifts', '67, rue des Cinquante Otages', 'Nantes', '44000', 'France', 'Labrune', 'Janine', 'Small');
INSERT INTO ToyCarOrders VALUES (10388, 42, 76.36, 4, 3207.12, TO_DATE('03/03/2020', 'dd/mm/yyyy'), 111, 'Motorcycles', 'FunGiftIdeas.com', '1785 First Street', 'New Bedford', '50553', 'USA', 'Benitez', 'Violeta', 'Medium');
INSERT INTO ToyCarOrders VALUES (10403, 24, 101.44, 7, 2434.56, TO_DATE('08/04/2020', 'dd/mm/yyyy'), 76, 'Motorcycles', 'UK Collectables', '(171) 555-2282,Berkeley Gardens 12  Brewery', 'Liverpool', 'WX1 6LT', 'UK', 'Devon', 'Elizabeth', 'Small');
INSERT INTO ToyCarOrders VALUES (10417, 66, 113.88, 2, 7516.08, TO_DATE('13/05/2020', 'dd/mm/yyyy'), 42, 'Motorcycles', 'Euro Shopping Channel', 'C/ Moralzarzal, 86', 'Madrid', '28034', 'Spain', 'Freyre', 'Diego', 'Large');
INSERT INTO ToyCarOrders VALUES (10103, 26, 207.87, 11, 5404.62, TO_DATE('29/01/2018', 'dd/mm/yyyy'), 878, 'Classic Cars', 'Baane Mini Imports', 'Erling Skakkes gate 78', 'Stavern', '4110', 'Norway', 'Bergulfsen', 'Jonas', 'Medium');
INSERT INTO ToyCarOrders VALUES (10112, 29, 248.59, 1, 7209.11, TO_DATE('24/03/2018', 'dd/mm/yyyy'), 825, 'Classic Cars', 'Volvo Model Replicas', '0921-12 3555,Berguvsvï¿½gen  8', 'Lule', 'S-958 22', 'Sweden', 'Berglund', 'Christina', 'Large');
INSERT INTO ToyCarOrders VALUES (10126, 38, 192.87, 11, 7329.06, TO_DATE('28/05/2018', 'dd/mm/yyyy'), 761, 'Classic Cars', 'Corrida Auto Replicas', '(91) 555 22 82,C/ Araquil, 67', 'Madrid', '28023', 'Spain', 'Sommer', 'Martï¿½n', 'Large');
INSERT INTO ToyCarOrders VALUES (10140, 37, 199.30, 11, 7374.1, TO_DATE('24/07/2018', 'dd/mm/yyyy'), 705, 'Classic Cars', 'Technics Stores Inc.', '9408 Furth Circle', 'Burlingame', '94217', 'USA', 'Hirano', 'Juri', 'Large');
INSERT INTO ToyCarOrders VALUES (10150, 45, 244.30, 8, 10993.5, TO_DATE('19/09/2018', 'dd/mm/yyyy'), 649, 'Classic Cars', 'Dragon Souveniers', '+65 221 7555,Bronz Sok., Bronz Apt. 3/6 Tesvikiye', 'Singapore', '79903', 'Singapore', 'Natividad', 'Eric'
INSERT INTO ToyCarOrders VALUES (10163, 21, 231.44, 1, 4860.24, TO_DATE('20/10/2018', 'dd/mm/yyyy'), 619, 'Classic Cars', 'Classic Legends Inc.', '5905 Pompton St.', 'NYC', '10022', 'USA', 'Hernandez', 'Maria', 'Medium');
INSERT INTO ToyCarOrders VALUES (10174, 34, 235.73, 4, 8014.82, TO_DATE('06/11/2018', 'dd/mm/yyyy'), 603, 'Classic Cars', 'Australian Gift Network', '61-7-3844-6555,31 Duncan St. West End', 'South Brisbane', '4101', 'Australia', 'Calaghan', 'Tony', '
INSERT INTO ToyCarOrders VALUES (10183, 23, 233.59, 8, 5372.57, TO_DATE('13/11/2018', 'dd/mm/yyyy'), 597, 'Classic Cars', 'Classic Gift Ideas', '2155554695,782 First Street', 'Philadelphia', '71270', 'USA', 'Cervantes', 'Francisca', 'Medium');
```

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1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

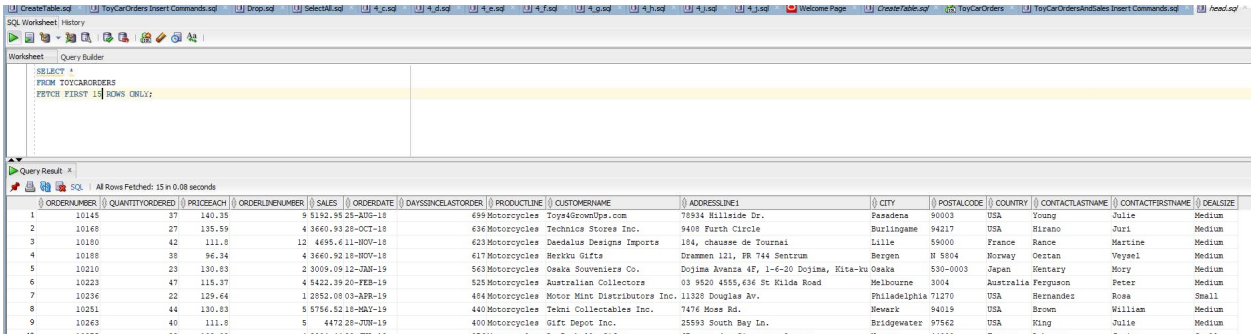
1 row inserted.

1 row inserted.

1 row inserted.

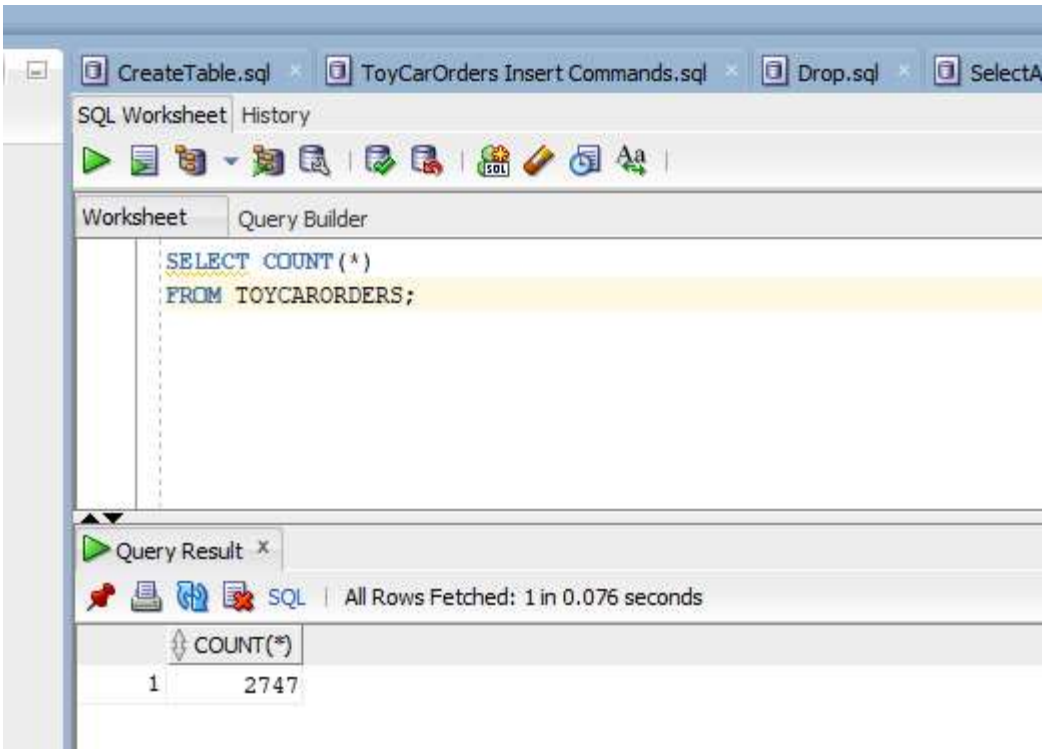
1 row inserted.
```

Task 5



```
SELECT *
FROM TOYCARORDERS
FETCH FIRST 15 ROWS ONLY;
```

	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE	DAYSSINCELASTORDER	PRODUCTLINE	CUSTOMERNAME	ADDRESSLINE1	CITY	POSTALCODE	COUNTRY	CONTACTLASTNAME	CONTACTFIRSTNAME	DEALSIZE
1	10145	37	140.35	9	5192.95	25-AUG-18	699	Motorcycles	Toys4GrownUps.com	78934 Hillside Dr.	Pasadena	90003	USA	Young	Julie	Medium
2	10168	27	135.59	4	3660.93	28-OCT-18	636	Motorcycles	Technics Stores Inc.	9408 Furth Circle	Burlingame	94217	USA	Hirano	Juri	Medium
3	10180	42	111.8	12	4695.6	11-NOV-18	623	Motorcycles	Daedalus Designs Imports	184, chausse de Tournai	Lille	59000	France	Rance	Martine	Medium
4	10188	38	96.34	4	3660.92	18-NOV-18	617	Motorcycles	Herkku Gifts	Drammen 121, PR 744 Sentrum	Bergen	N 5804	Norway	Oeztan	Veysel	Medium
5	10210	23	130.83	2	3009.09	12-JAN-19	563	Motorcycles	Osaka Souveniers Co.	Dojima Avanza 4F, 1-6-20 Dojima, Kita-ku	Osaka	530-0003	Japan	Kentary	Mory	Medium
6	10223	47	115.37	4	5422.39	20-FEB-19	525	Motorcycles	Australian Collectors	03 9520 4555,636 St Kilda Road	Melbourne	3004	Australia	Ferguson	Peter	Medium
7	10236	22	129.64	1	2852.08	03-APR-19	484	Motorcycles	Motor Mint Distributors Inc.	11328 Douglas Av.	Philadelphia	71270	USA	Hernandez	Rosa	Small
8	10251	44	130.83	5	5756.52	18-MAY-19	440	Motorcycles	Tekni Collectables Inc.	7476 Moss Rd.	Newark	94019	USA	Brown	William	Medium
9	10263	40	111.8	5	4472.28	JUN-19	400	Motorcycles	Gift Depot Inc.	25593 South Bay Ln.	Bridgewater	97562	USA	King	Julie	Medium
10	10275	22	132.02	4	2904.44	23-JUL-19	376	Motorcycles	La Rochelle Gifts	67, rue des Cinquante Otages	Nantes	44000	France	Labrune	Janine	Small
11	10285	47	137.97	9	6484.59	27-AUG-19	342	Motorcycles	Marta's Replicas Co.	39323 Spinnaker Dr.	Cambridge	51247	USA	Hernandez	Marta	Medium
12	10298	39	96.34	1	3757.26	27-SEP-19	312	Motorcycles	Atelier graphique	54, rue Royale	Nantes	44000	France	Schmitt	Carine	Medium
13	10308	34	118.94	2	4043.96	15-OCT-19	295	Motorcycles	Mini Classics	3758 North Pendale Street	White Plains	24067	USA	Frick	Steve	Medium
14	10318	45	123.7	4	5566.5	02-NOV-19	278	Motorcycles	Diecast Classics Inc.	7586 Pompton St.	Allentown	70267	USA	Yu	Kyung	Medium
15	10329	20	158.8	2	3176	15-NOV-19	266	Motorcycles	Land of Toys Inc.	897 Long Airport Avenue	NYC	10022	USA	Yu	Kwai	Medium


CreateTable.sql
ToyCarOrders Insert Commands.sql
Drop.sql
SelectA
SQL Worksheet
History
Worksheet
Query Builder
SELECT COUNT(*)
FROM TOYCARORDERS;
Query Result
SQL
All Rows Fetched: 1 in 0.076 seconds
COUNT(*)
1
2747