Homework 2

Kaijun He

--Question 1

ALTER SESSION SET NLS_DATE_FORMAT = 'MM/DD/YY';

ALTER TABLE Shipments ADD ShipDate DATE;

ALTER TABLE Shipments ADD ArriveDate DATE;

--row 1

UPDATE Shipments

SET ShipDate = '1/5/18',

   ArriveDate = '1/25/18'

WHERE SupplierNo = 'S1' AND PartNo = 'P1' AND ProjectNo = 'J1';

--row 2

UPDATE Shipments

SET ShipDate = '2/1/18',

   ArriveDate = '2/4/18'

WHERE SupplierNo = 'S1' AND PartNo = 'P1' AND ProjectNo = 'J4';

--row 3

UPDATE Shipments

SET ShipDate = '12/15/17',

   ArriveDate = '1/8/18'

WHERE SupplierNo = 'S1' AND PartNo = 'P3' AND ProjectNo = 'J1';

--row 4

UPDATE Shipments

```sql
SET ShipDate = '11/2/17',

    ArriveDate = '11/18/17'

WHERE SupplierNo = 'S1' AND PartNo = 'P3' AND ProjectNo = 'J2';


--row 5

UPDATE Shipments

SET ShipDate = '8/5/17',

    ArriveDate = '9/1/17'

WHERE SupplierNo = 'S1' AND PartNo = 'P3' AND ProjectNo = 'J3';


--row 6

UPDATE Shipments

SET ShipDate = '8/5/17',

    ArriveDate = '8/9/17'

WHERE SupplierNo = 'S2' AND PartNo = 'P3' AND ProjectNo = 'J4';


--row 7

UPDATE Shipments

SET ShipDate = '7/3/17',

    ArriveDate = '7/29/17'

WHERE SupplierNo = 'S2' AND PartNo = 'P3' AND ProjectNo = 'J5';


--row 8

UPDATE Shipments

SET ShipDate = '9/3/17',

    ArriveDate = '9/10/17'

WHERE SupplierNo = 'S2' AND PartNo = 'P3' AND ProjectNo = 'J6';


--row 9
```

```sql
UPDATE Shipments

SET ShipDate = '2/5/18',

    ArriveDate = '2/15/18'

WHERE SupplierNo = 'S2' AND PartNo = 'P3' AND ProjectNo = 'J7';


--row 10

UPDATE Shipments

SET ShipDate = '1/6/18',

    ArriveDate = '1/14/18'

WHERE SupplierNo = 'S3' AND PartNo = 'P5' AND ProjectNo = 'J6';


--row 11

UPDATE Shipments

SET ShipDate = '3/5/18',

    ArriveDate = '3/15/18'

WHERE SupplierNo = 'S3' AND PartNo = 'P3' AND ProjectNo = 'J2';


--row 12

UPDATE Shipments

SET ShipDate = '2/27/18',

    ArriveDate = '3/6/18'

WHERE SupplierNo = 'S3' AND PartNo = 'P4' AND ProjectNo = 'J1';


--row 13

UPDATE Shipments

SET ShipDate = '6/15/17',

    ArriveDate = '6/27/17'

WHERE SupplierNo = 'S3' AND PartNo = 'P6' AND ProjectNo = 'J2';
```

```sql
--row 14
UPDATE Shipments
SET ShipDate = '6/17/17',
    ArriveDate = '6/30/17'
WHERE SupplierNo = 'S4' AND PartNo = 'P6' AND ProjectNo = 'J3';


--row 15
UPDATE Shipments
SET ShipDate = '5/2/17',
    ArriveDate = '6/2/17'
WHERE SupplierNo = 'S4' AND PartNo = 'P2' AND ProjectNo = 'J6';


--row 16
UPDATE Shipments
SET ShipDate = '5/5/17',
    ArriveDate = '5/10/17'
WHERE SupplierNo = 'S4' AND PartNo = 'P5' AND ProjectNo = 'J5';


--row 17
UPDATE Shipments
SET ShipDate = '9/5/17',
    ArriveDate = '10/1/17'
WHERE SupplierNo = 'S4' AND PartNo = 'P5' AND ProjectNo = 'J2';


--row 18
UPDATE Shipments
SET ShipDate = '10/2/17',
    ArriveDate = '10/23/17'
WHERE SupplierNo = 'S5' AND PartNo = 'P7' AND ProjectNo = 'J4';
```

--row 19

UPDATE Shipments

SET ShipDate = '11/5/17',

   ArriveDate = '11/17/17'

WHERE SupplierNo = 'S5' AND PartNo = 'P1' AND ProjectNo = 'J5';

--row 20

UPDATE Shipments

SET ShipDate = '12/12/17',

   ArriveDate = '1/4/18'

WHERE SupplierNo = 'S5' AND PartNo = 'P3' AND ProjectNo = 'J7';

--row 21

UPDATE Shipments

SET ShipDate = '12/22/17',

   ArriveDate = '1/16/18'

WHERE SupplierNo = 'S5' AND PartNo = 'P4' AND ProjectNo = 'J4';

--row 22

UPDATE Shipments

SET ShipDate = '5/7/18',

   ArriveDate = '6/1/18'

WHERE SupplierNo = 'S5' AND PartNo = 'P5' AND ProjectNo = 'J4';

--row 23

UPDATE Shipments

SET ShipDate = '4/23/18',

   ArriveDate = '5/2/18'

WHERE SupplierNo = 'S5' AND PartNo = 'P6' AND ProjectNo = 'J4';

--row 24

UPDATE Shipments

SET ShipDate = '4/20/18',

   ArriveDate = '5/2/18'

WHERE SupplierNo = 'S5' AND PartNo = 'P2' AND ProjectNo = 'J4';

-- question 2 With a single query, display the average number of days

--that each part spent in transit. Round the answers to a whole day.

SELECT Round(Sum((ArriveDate - ShipDate)*Quantity)/Sum(Quantity)) as AverageNumberPartInTransit

FROM Shipments;

-- question 3 With a single query, for each project,

--display the number of parts delivered in 2017.

select ProjectNo,Sum(Quantity) AS QuantityPerProjectIn2017

From Shipments

where extract(year from ShipDate) = 2017 OR extract(year from ArriveDate) = 2017

GROUP BY ProjectNo

order by ProjectNo;

Task completed in 0.059 seconds

```
AVERAGENUMBERPARTINTRANSIT
--------------------------
                        16
```

Task completed in 0.056 seconds

```
PROJECTNO                                           QUANTITYPERPROJECTIN2017
-------------------------------------------------- --------------------------
J1                                                                       450
J2                                                                      1036
J3                                                                      1014
J4                                                                      1130
J5                                                                      1048
J6                                                                       650
J7                                                                       874

7 rows selected.
```