Kaijun he
Homework 3

--QUESTION 1

DECLARE

  CURSOR s_shipments IS

    SELECT s.SupplierNo, s.PartNo, s.ProjectNo, s.Quantity, s.ShipDate, s.ArriveDate

    FROM Shipments s

    ORDER BY ProjectNo;

  r1 s_shipments%ROWTYPE;

  al Shipments.Quantity%TYPE;

BEGIN

    DBMS_OUTPUT.PUT_LINE('Question 1');

  open s_shipments;

 fetch s_shipments INTO r1;

  while (s_shipments%FOUND) LOOP

  select AVG(Shipments.Quantity)

  into al

  FROM Shipments

  WHERE r1.ProjectNo = Shipments.ProjectNo

  Group by Shipments.ProjectNo;

  IF (r1.Quantity > al) THEN

   DBMS_OUTPUT.PUT_LINE('SUPPLIERNO:'|| r1.SupplierNo|| '   PARTNO: '||r1.PartNo||' PROJECTNO: '||r1.ProjectNo|| ' QUANTITY: '||r1.Quantity||' SHIPDATE: '||r1.ShipDate||' ARRIVEDATE: '||r1.ArriveDate);

   END IF;

   fetch s_shipments INTO r1;

  END LOOP;

  close s_shipments;

END;

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--QUESTION 2


```
DECLARE

  CURSOR s_shipments IS

    SELECT s.SupplierNo, s.PartNo, s.ProjectNo, s.Quantity, s.ShipDate, s.ArriveDate

    FROM Shipments s

    ORDER BY ProjectNo;

  al Shipments.Quantity%TYPE;

BEGIN

    DBMS_OUTPUT.PUT_LINE('Question 2');

    FOR r1 in s_shipments LOOP

    select AVG(Shipments.Quantity)

    into al

    FROM Shipments

    WHERE r1.ProjectNo = Shipments.ProjectNo

    Group by Shipments.ProjectNo;

    IF (r1.Quantity > al) THEN

     DBMS_OUTPUT.PUT_LINE('SUPPLIERNO:'|| r1.SupplierNo|| '   PARTNO: '||r1.PartNo||'
PROJECTNO: '||r1.ProjectNo|| '  QUANTITY: '||r1.Quantity||' SHIPDATE: '||r1.ShipDate||'
ARRIVEDATE: '||r1.ArriveDate);

     END IF;

  END LOOP;

END;
```

Dbms Output

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Question 1
SUPPLIERNO:S3    PARTNO: P4    PROJECTNO: J1    QUANTITY: 512    SHIPDATE: 02/27/18    ARRIVEDATE: 03/06/18
SUPPLIERNO:S1    PARTNO: P3    PROJECTNO: J1    QUANTITY: 450    SHIPDATE: 12/15/17    ARRIVEDATE: 01/08/18
SUPPLIERNO:S4    PARTNO: P5    PROJECTNO: J2    QUANTITY: 513    SHIPDATE: 09/05/17    ARRIVEDATE: 10/01/17
SUPPLIERNO:S1    PARTNO: P3    PROJECTNO: J3    QUANTITY: 700    SHIPDATE: 08/05/17    ARRIVEDATE: 09/01/17
SUPPLIERNO:S2    PARTNO: P3    PROJECTNO: J4    QUANTITY: 509    SHIPDATE: 08/05/17    ARRIVEDATE: 08/09/17
SUPPLIERNO:S5    PARTNO: P2    PROJECTNO: J4    QUANTITY: 619    SHIPDATE: 04/20/18    ARRIVEDATE: 05/02/18
SUPPLIERNO:S1    PARTNO: P1    PROJECTNO: J4    QUANTITY: 700    SHIPDATE: 02/01/18    ARRIVEDATE: 02/04/18
SUPPLIERNO:S5    PARTNO: P5    PROJECTNO: J4    QUANTITY: 529    SHIPDATE: 05/07/18    ARRIVEDATE: 06/01/18
SUPPLIERNO:S5    PARTNO: P4    PROJECTNO: J4    QUANTITY: 476    SHIPDATE: 12/22/17    ARRIVEDATE: 01/16/18
SUPPLIERNO:S2    PARTNO: P3    PROJECTNO: J5    QUANTITY: 600    SHIPDATE: 07/03/17    ARRIVEDATE: 07/29/17
SUPPLIERNO:S3    PARTNO: P5    PROJECTNO: J6    QUANTITY: 750    SHIPDATE: 01/06/18    ARRIVEDATE: 01/14/18
SUPPLIERNO:S5    PARTNO: P3    PROJECTNO: J7    QUANTITY: 874    SHIPDATE: 12/12/17    ARRIVEDATE: 01/04/18
```

Dbms Output

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Question 2
SUPPLIERNO:S3    PARTNO: P4    PROJECTNO: J1    QUANTITY: 512    SHIPDATE: 02/27/18    ARRIVEDATE: 03/06/18
SUPPLIERNO:S1    PARTNO: P3    PROJECTNO: J1    QUANTITY: 450    SHIPDATE: 12/15/17    ARRIVEDATE: 01/08/18
SUPPLIERNO:S4    PARTNO: P5    PROJECTNO: J2    QUANTITY: 513    SHIPDATE: 09/05/17    ARRIVEDATE: 10/01/17
SUPPLIERNO:S1    PARTNO: P3    PROJECTNO: J3    QUANTITY: 700    SHIPDATE: 08/05/17    ARRIVEDATE: 09/01/17
SUPPLIERNO:S2    PARTNO: P3    PROJECTNO: J4    QUANTITY: 509    SHIPDATE: 08/05/17    ARRIVEDATE: 08/09/17
SUPPLIERNO:S5    PARTNO: P2    PROJECTNO: J4    QUANTITY: 619    SHIPDATE: 04/20/18    ARRIVEDATE: 05/02/18
SUPPLIERNO:S1    PARTNO: P1    PROJECTNO: J4    QUANTITY: 700    SHIPDATE: 02/01/18    ARRIVEDATE: 02/04/18
SUPPLIERNO:S5    PARTNO: P5    PROJECTNO: J4    QUANTITY: 529    SHIPDATE: 05/07/18    ARRIVEDATE: 06/01/18
SUPPLIERNO:S5    PARTNO: P4    PROJECTNO: J4    QUANTITY: 476    SHIPDATE: 12/22/17    ARRIVEDATE: 01/16/18
SUPPLIERNO:S2    PARTNO: P3    PROJECTNO: J5    QUANTITY: 600    SHIPDATE: 07/03/17    ARRIVEDATE: 07/29/17
SUPPLIERNO:S3    PARTNO: P5    PROJECTNO: J6    QUANTITY: 750    SHIPDATE: 01/06/18    ARRIVEDATE: 01/14/18
SUPPLIERNO:S5    PARTNO: P3    PROJECTNO: J7    QUANTITY: 874    SHIPDATE: 12/12/17    ARRIVEDATE: 01/04/18
```