

Assignment 3

Subject: COMP122
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ID: 301065539

Q1: Use Just Lee Book store database Determine the average profit generated by orders in the ORDERS table in Just Lee Book database.

Note: The total profit by Order must be calculated before finding the average profit...

Hint: First find for each order# and their total profit $\text{SUM}((\text{ord.paideach-b.cost}) * \text{ord.quantity})$ And then use Nested Function as AVG of all of these grouped order# results.

Answer must be \$31.943

```
SELECT AVG(SUM((ord.paideach-b.cost)*ord.quantity))
FROM orders o JOIN orderitems ord USING (order#)
JOIN books b USING (isbn)
GROUP BY b.cost
```

The screenshot shows the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (active), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a yellow banner for an 'Outage Sunday, 3/29'. Below the banner is a SQL editor with line numbers 600 to 620. The SQL code includes several INSERT statements into a table named BOOKS_2, followed by a SELECT statement that calculates the average profit. The result of the query is displayed in a table below the editor, showing a single value: 60.9836363636363636363636363636363636. A 'Download CSV' link is visible at the bottom of the result table.

```
600 ;
601
602 /*
603 INSERT INTO BOOKS_2
604 VALUES ('8843172113', 'DATABASE IMPLEMENTATION', TO_DATE('04-JUN-05', 'DD-MON-YY'), 55.95, 'COMPUTER');
605 INSERT INTO BOOKS_2
606 VALUES ('3437212490', 'COOKING WITH MUSHROOMS', TO_DATE('28-FEB-06', 'DD-MON-YY'), 29.95, 'COOKING');
607 INSERT INTO BOOKS_2
608 VALUES ('3957136468', 'HOLY GRAIL OF ORACLE', TO_DATE('31-DEC-05', 'DD-MON-YY'), 75.95, 'COMPUTER');
609 INSERT INTO BOOKS_2
610 VALUES ('1915762492', 'HANDCRANKED COMPUTERS', TO_DATE('21-JAN-05', 'DD-MON-YY'), 25.00, 'COMPUTER');
611 INSERT INTO BOOKS_2
612 VALUES ('0299282519', 'THE WOK WAY TO COOK', TO_DATE('11-SEP-00', 'DD-MON-YY'), 28.75, 'COOKING');
613 COMMIT;
614
615 */
616
617 SELECT AVG(SUM((ord.paideach-b.cost)*ord.quantity))
618 FROM orders o JOIN orderitems ord USING (order#)
619 JOIN books b USING (isbn)
620 GROUP BY b.cost
```

AVG(SUM((ORD.PAIDEACH-B.COST)*ORD.QUANTITY))
60.9836363636363636363636363636363636

[Download CSV](#)

Q2. Determine the total profit generated by sales to Customer# 1017.

Note : Quantity should be reflected in the total profit calculation.

Hint: Use Just Lee Book store database

```
SELECT o.customer#, ord.quantity, b.cost, ord.quantity*b.cost
FROM orders o, orderitems ord, books b
WHERE o.customer# = 1017
```

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```
604 VALUES ('8843172113','DATABASE IMPLEMENTATION',TO_DATE('04-JUN-05','DD-MON-YY'),55.95, 'COMPUTER');
605 INSERT INTO BOOKS_2
606 VALUES ('3437212490','COOKING WITH MUSHROOMS',TO_DATE('28-FEB-06','DD-MON-YY'),29.95, 'COOKING');
607 INSERT INTO BOOKS_2
608 VALUES ('3957136468','HOLY GRAIL OF ORACLE',TO_DATE('31-DEC-05','DD-MON-YY'),75.95, 'COMPUTER');
609 INSERT INTO BOOKS_2
610 VALUES ('1915762492','HANDCRANKED COMPUTERS',TO_DATE('21-JAN-05','DD-MON-YY'),25.00, 'COMPUTER');
611 INSERT INTO BOOKS_2
612 VALUES ('0299282519','THE WOK WAY TO COOK',TO_DATE('11-SEP-00','DD-MON-YY'),28.75, 'COOKING');
613 COMMIT;
614
615 */
616
617 SELECT AVG((ord.paideach-b.cost)*ord.quantity)
618 FROM orders o JOIN orderitems ord USING (order#)
619 JOIN books b USING (isbn)
620 GROUP BY b.cost
621
622 SELECT o.customer#, ord.quantity, b.cost, ord.quantity*b.cost
623 FROM orders o, orderitems ord, books b
624 WHERE o.customer# = 1017
```

CUSTOMER#	QUANTITY	COST	ORD.QUANTITY*B.COST
1017	1	18.75	18.75
1017	1	18.75	18.75

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Live SQL 19.4.2, running Oracle Database 19c Enterprise Edition - 19.5.0.0.0

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Q3: List the retail price of the least expensive book in the Computer Category

```
SELECT b.title, b.retail, b.category
FROM books b
WHERE category = 'COMPUTER'
ORDER BY b.retail
```

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```
609 INSERT INTO BOOKS_2
610 VALUES ('1915762492','HANDCRANKED COMPUTERS',TO_DATE('21-JAN-05','DD-MON-YY'),25.00, 'COMPUTER');
611 INSERT INTO BOOKS_2
612 VALUES ('0299282519','THE WOK WAY TO COOK',TO_DATE('11-SEP-00','DD-MON-YY'),28.75, 'COOKING');
613 COMMIT;
614
615 */
616
617 SELECT AVG((ord.paideach-b.cost)*ord.quantity)
618 FROM orders o JOIN orderitems ord USING (order#)
619 JOIN books b USING (isbn)
620 GROUP BY b.cost
621
622 SELECT o.customer#, ord.quantity, b.cost, ord.quantity*b.cost
623 FROM orders o, orderitems ord, books b
624 WHERE o.customer# = 1017
625
626 SELECT b.title, b.retail, b.category
627 FROM books b
628 WHERE category = 'COMPUTER'
629 ORDER BY b.retail
```

TITLE	RETAIL	CATEGORY
HANDCRANKED COMPUTERS	25	COMPUTER
E-BUSINESS THE EASY WAY	54.5	COMPUTER

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Q4: Display the oldest (earliest) publication date of all books sold by JustLee Book company

```
SELECT b.pubdate, b.title, ord.item#  
FROM books b JOIN orderitems ord USING(isbn)  
ORDER BY b.pubdate
```

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SELECT b.pubdate, b.title, ord.item#

FROM books b JOIN orderitems ord USING(isbn)

ORDER BY b.pubdate

PUBDATE	TITLE	ITEM#
09-MAY-03	HOW TO MANAGE THE MANAGER	1
04-JUN-03	DATABASE IMPLEMENTATION	4
04-JUN-03	DATABASE IMPLEMENTATION	1
04-JUN-03	DATABASE IMPLEMENTATION	2
04-JUN-03	DATABASE IMPLEMENTATION	1
04-JUN-03	DATABASE IMPLEMENTATION	1
04-JUN-03	DATABASE IMPLEMENTATION	1
28-FEB-04	COOKING WITH MUSHROOMS	3
28-FEB-04	COOKING WITH MUSHROOMS	1
28-FEB-04	COOKING WITH MUSHROOMS	1
28-FEB-04	COOKING WITH MUSHROOMS	1
28-FEB-04	COOKING WITH MUSHROOMS	1

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633

SELECT b.pubdate, b.title, ord.item#

FROM books b JOIN orderitems ord USING(isbn)

ORDER BY b.pubdate

21-JAN-05	HANDCRANKED COMPUTERS	2
01-MAY-05	SHORTEST POEMS	1
08-NOV-05	BIG BEAR AND LITTLE DOVE	3
08-NOV-05	BIG BEAR AND LITTLE DOVE	1
08-NOV-05	BIG BEAR AND LITTLE DOVE	1
14-DEC-05	REVENGE OF MICKEY	1
14-DEC-05	REVENGE OF MICKEY	4
14-DEC-05	REVENGE OF MICKEY	2
14-DEC-05	REVENGE OF MICKEY	1
31-DEC-05	HOLY GRAIL OF ORACLE	1
01-MAR-06	E-BUSINESS THE EASY WAY	2
01-MAR-06	E-BUSINESS THE EASY WAY	1

Download CSV

32 rows selected.

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