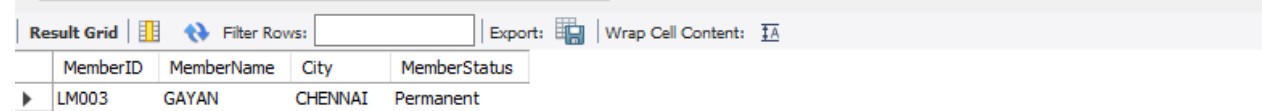


Simple Questions:

Problem # 1: Write a query to display the member id, member name, city and membership status who are all having life time membership. Hint: Life time membership status is "Permanent"

```
418 • select MemberID,MemberName,City,MemberStatus from lms_members WHERE MemberStatus = 'Permanent' ;
419
```

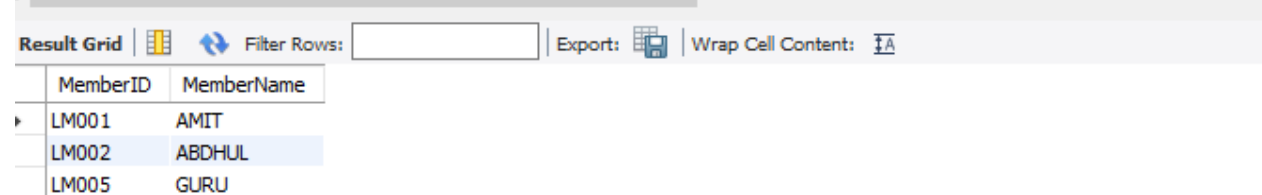


Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

MemberID	MemberName	City	MemberStatus
LM003	GAYAN	CHENNAI	Permanent

Problem # 2: Write a query to display the member id, member name who have not returned the books. Hint: Book return status is book_issue_status = 'Y' or 'N'.

```
420
421 • select i.MemberID,m.MemberName from lms_book_issue i inner join lms_members m on
422     i.MemberID = m.MemberID WHERE i.BookIssueStatus = 'N' ;
423
```

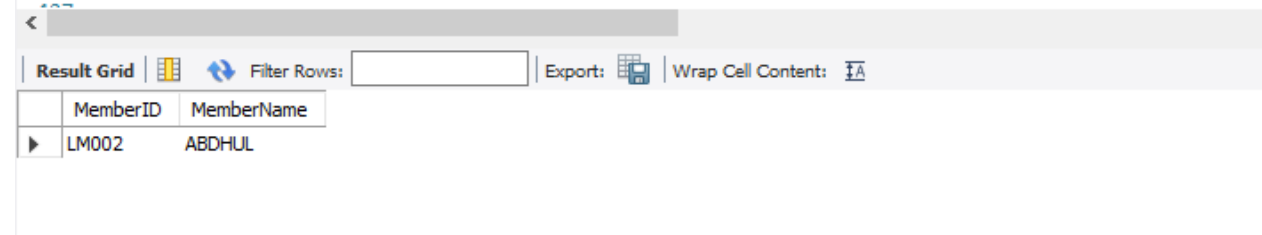


Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

MemberID	MemberName
LM001	AMIT
LM002	ABDHUL
LM005	GURU

Problem # 3: Write a query to display the member id, member name who have taken the book with book code 'BL000002'.

```
424 • select i.MemberID,m.MemberName from lms_book_issue i inner join lms_members m on
425     i.MemberID = m.MemberID WHERE i.BookCode = 'BL000002' ;
426
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

MemberID	MemberName
LM002	ABDHUL

Problem # 4: Write a query to display the book code, book title and author of the books whose author name begins with 'P'.

```

426
427 • select b.BookCode,b.BookTitle,b.Author from lms_book_details b WHERE b.Author like 'P%' ;
428

```

Result Grid

	BookCode	BookTitle	Author
▶	BL000001	Java How To Do Program	Paul J. Deitel
	BL000003	Java How To Do Program	Paul J. Deitel
	BL000005	Java How To Do Program	Paul J. Deitel
*	NULL	NULL	NULL

Problem # 5: Write a query to display the total number of Java books available in library with alias name 'NO_OF_BOOKS'

```

429 • select COUNT(b.BookCode) AS NO_OF_BOOKS from lms_book_details b
430 WHERE b.Category = 'JAVA';
431
432

```

Result Grid

	NO_OF_BOOKS
▶	6

Problem # 6: Write a query to list the category and number of books in each category with alias name 'NO_OF_BOOKS'.

```

432 • select Category AS BookCategory,COUNT(BookCode) As NO_OF_BOOKS from lms_book_details GROUP BY Category;


```

Result Grid

	BookCategory	NO_OF_BOOKS
▶	JAVA	6
	C	2

Problem # 7: Write a query to display the number of books published by "Prentice Hall" with the alias name "NO_OF_BOOKS".

```
434 • select COUNT(b.BookCode) from lms_book_details b
435     WHERE b.Publication = 'Prentice Hall';
436
```

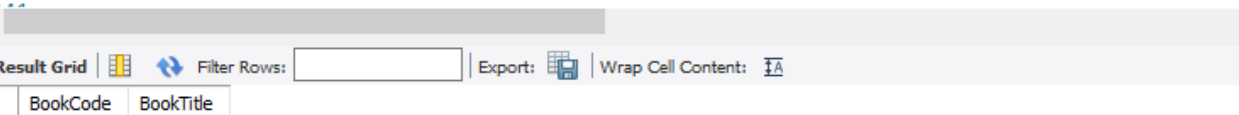


The screenshot shows a database interface with a query editor and a result grid. The query is: `select COUNT(b.BookCode) from lms_book_details b WHERE b.Publication = 'Prentice Hall';`. The result grid displays a single row with the value 3.

COUNT(b.BookCode)
3

Problem # 8: Write a query to display the book code, book title of the books which are issued on the date "1 st April 2012"

```
437 • select i.BookCode,b.BookTitle from lms_book_issue i inner join lms_book_details b
438     ON i.BookCode = b.BookCode
439     WHERE i.DateIssue = '2012/04/01'
440
```

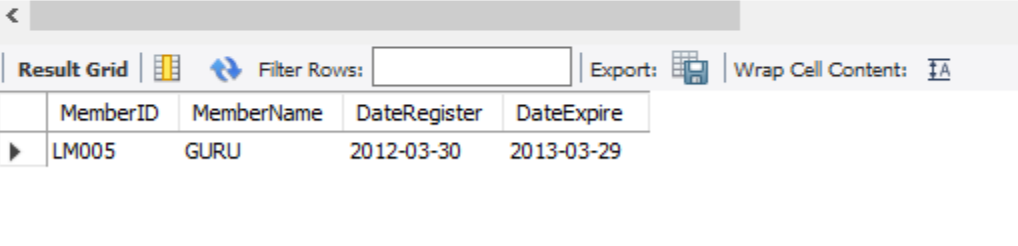


The screenshot shows a database interface with a query editor and a result grid. The query is: `select i.BookCode,b.BookTitle from lms_book_issue i inner join lms_book_details b ON i.BookCode = b.BookCode WHERE i.DateIssue = '2012/04/01'`. The result grid displays a table with columns BookCode and BookTitle.

BookCode	BookTitle
----------	-----------

Problem # 9: Write a query to display the member id, member name, date of registration and expiry date of the members whose membership expiry date is before APR 2013.

```
441 • SELECT MemberID,MemberName,DateRegister,DateExpire
442     FROM lms_members
443     WHERE DateExpire < '2013-04-01';
444
```



The screenshot shows a database interface with a query editor and a result grid. The query is: `SELECT MemberID,MemberName,DateRegister,DateExpire FROM lms_members WHERE DateExpire < '2013-04-01';`. The result grid displays a table with columns MemberID, MemberName, DateRegister, and DateExpire.

MemberID	MemberName	DateRegister	DateExpire
LM005	GURU	2012-03-30	2013-03-29

Problem # 10: write a query to display the member id, member name, date of registration, membership status of the members who registered before "March 2012" and membership status is "Temporary"

```
446 • SELECT MemberID,MemberName,DateRegister,DateExpire,MemberStatus
447 FROM lms_members
448 WHERE DateRegister < '2013-03-01' AND MemberStatus = 'Temporary' ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	MemberID	MemberName	DateRegister	DateExpire	MemberStatus
▶	LM001	AMIT	2012-02-20	2013-11-02	Temporary
	LM002	ABDHUL	2012-04-10	2013-04-09	Temporary
	LM004	RADHA	2012-04-22	2013-04-21	Temporary
	LM005	GURU	2012-03-30	2013-03-29	Temporary
	LM006	MOHAN	2012-04-12	2013-04-12	Temporary

Problem #11: Write a query to display the member id, member name who's City is CHENNAI or DELHI. Hint: Display the member name in title case with alias name 'Name'

```
449
450 • select MemberID,MemberName AS Name from lms_members WHERE City IN ('Chennai','Delhi');
451
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	MemberID	Name
▶	LM001	AMIT
	LM002	ABDHUL
	LM003	GAYAN
	LM004	RADHA
	LM006	MOHAN

Problem #12: Write a query to concatenate book title, author and display in the following format. Book_Title_is_written_by_Author Example: Let Us C_is_written_by_Yashavant Kanetkar Hint: display unique books. Use "BOOK_WRITTEN_BY" as alias name.

```
452 • select Concat(booktitle,'_is_written_by_',Author) AS BOOK_WRITTEN_BY from lms_book_details
```

```
453
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

BOOK_WRITTEN_BY
Java How To Do Program_is_written_by_Paul J. Deitel
Java: The Complete Reference _is_written_by_Herbert Schildt
Java How To Do Program_is_written_by_Paul J. Deitel
Java: The Complete Reference _is_written_by_Herbert Schildt
Java How To Do Program_is_written_by_Paul J. Deitel
Java: The Complete Reference _is_written_by_Herbert Schildt
Let Us C_is_written_by_Yashavant Kanetkar
Let Us C_is_written_by_Yashavant Kanetkar

Problem #13: Write a query to display the average price of books which is belonging to 'JAVA' category with alias name "AVERAGEPRICE".

```
455 • select AVG(Price) AS AVERAGEPRICE from lms_book_details WHERE Category = 'JAVA'
```

```
456
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

AVERAGEPRICE
675.0000

Problem #14: Write a query to display the supplier id, supplier name and email of the suppliers who are all having gmail account.

```
457 • select SupplierID,SupplierName,Email from lms_suppliers_details WHERE Email is not NULL;
```

```
458
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

SupplierID	SupplierName	Email
S06	AKBAR STORE	akbakst@aol.com
S01	SINGAPORE SHOPPEE	sing@gmail.com
S02	JK Stores	jks@yahoo.com
S03	ROSE BOOK STORE	rose@gmail.com
S04	KAVARI STORE	kavi@redif.com
S05	EINSTEN BOOK GALLERY	eingal@aol.com

lms_suppliers_details 36 x

Problem#15: Write a query to display the supplier id, supplier name and contact details. Contact details can be either phone number or email or address with alias name "CONTACTDETAILS". If phone number is null then display email, even if email also null then display the address of the supplier. Hint: Use Coalesce function.

```
459 • select SupplierID,SupplierName,Coalesce(Contact,Email,Address) AS CONTACTDETAILS
460 from lms_suppliers_details;
```

SupplierID	SupplierName	CONTACTDETAILS
S06	AKBAR STORE	785562310
S01	SINGAPORE SHOPPEE	989412355
S02	JK Stores	994012345
S03	ROSE BOOK STORE	944441122
S04	KAVARI STORE	863000145
S05	EINSTEN BOOK GALLERY	954200001

Problem#16: Write a query to display the supplier id, supplier name and contact. If phone number is null then display 'No' else display 'Yes' with alias name "PHONENUMAVAILABLE". Hint: Use NVL2.

```
462 • select SupplierID,SupplierName ,
463 CASE WHEN Contact is NULL THEN 'NO'
464 ELSE 'YES' END AS PHONENUMAVAILABLE
465 from lms_suppliers_details;
466
```

SupplierID	SupplierName	PHONENUMAVAILABLE
S06	AKBAR STORE	YES
S01	SINGAPORE SHOPPEE	YES
S02	JK Stores	YES
S03	ROSE BOOK STORE	YES
S04	KAVARI STORE	YES
S05	EINSTEN BOOK GALLERY	YES

Average Questions:

Problem # 1: Write a query to display the member id, member name of the members, book code and book title of the books taken by them.

```
467 • select m.MemberID,m.MemberName,b.BookCode,b.BookTitle
468   from lms_members m inner join lms_book_issue i
469   on m.MemberID = i.MemberID INNER JOIN lms_book_details b on
470   i.BookCode = b.BookCode Group BY m.MemberID,m.MemberName,b.BookCode,b.BookTitle;
471
472
```

MemberID	MemberName	BookCode	BookTitle
LM001	AMIT	BL000001	Java How To Do Program
LM002	ABDHUL	BL000002	Java: The Complete Reference
LM003	GAYAN	BL000007	Let Us C
LM004	RADHA	BL000005	Java How To Do Program
LM005	GURU	BL000008	Let Us C

Problem # 2: Write a query to display the total number of books available in the library with alias name "NO_OF_BOOKS_AVAILABLE" (Which is not issued). Hint: The issued books details are available in the LMS_BOOK_ISSUE table.

```
471
472 • select Count(BookCode) NO_OF_BOOKS_AVAILABLE from lms_book_details where BookCode NOT IN
473   (select BookCode from lms_book_issue)
474
```

NO_OF_BOOKS_AVAILABLE
3

Problem # 3: Write a query to display the member id, member name, fine range and fine amount of the members whose fine amount is less than 100.

```

475 • select m.MemberID,m.MemberName,f.FineRange,f.FineAmount from lms_book_issue i
476 INNER JOIN lms_fine_Details f ON
477 i.FineRange = f.FineRange AND f.FineAmount < 100 INNER JOIN
478 lms_members m on i.MemberID = m.MemberID
479

```

Result Grid				
Filter Rows: <input type="text"/>				
Export:				
Wrap Cell Content:				
MemberID	MemberName	FineRange	FineAmount	
LM001	AMIT	R1	20	
LM002	ABDHUL	R2	50	
LM003	GAYAN	R1	20	
LM004	RADHA	R1	20	
LM005	GURU	R2	50	

Problem # 4: Write a query to display the book code, book title and availability status of the 'JAVA' books whose edition is "6". Show the availability status with alias name "AVAILABILITYSTATUS". Hint: Book availability status can be fetched from "BOOK_ISSUE_STATUS" column of LMS_BOOK_ISSUE table.

```

480 • select b.bookCode,b.booktitle ,
481 CASE WHEN i.BookIssueStatus = 'N' THEN 'No'
482 ELSE 'Yes' END AS AVAILABILITYSTATUS
483 from lms_book_details b
484 inner join lms_book_issue i on b.bookcode = i.bookcode
485 WHERE b.BookEdition = 6 AND b.Category = 'JAVA'

```

Result Grid			
Filter Rows: <input type="text"/>			
Export:			
Wrap Cell Content:			
bookCode	booktitle	AVAILABILITYSTATUS	
BL000001	Java How To Do Program	No	
BL000005	Java How To Do Program	Yes	

Problem # 5: Write a query to display the book code, book title and rack number of the books which are placed in rack 'A1' and sort by book title in ascending order.

```
487 • select BookCode,BookTitle,RackNum from lms_book_details where RackNum = 'A1'
488     ORDER BY BookTitle;
489
490
```

Result Grid

BookCode	BookTitle	RackNum
BL000001	Java How To Do Program	A1
BL000003	Java How To Do Program	A1
BL000005	Java How To Do Program	A1
BL000002	Java: The Complete Reference	A1
BL000004	Java: The Complete Reference	A1
BL000006	Java: The Complete Reference	A1
NULL	NULL	NULL

lms_book_details 45 x

Problem # 6: Write a query to display the member id, member name, due date and date returned of the members who has returned the books after the due date. Hint: Date_return is due date and Date_returned is actual book return date.

```
490 • select m.MemberID,m.MemberName from lms_members m inner join lms_book_issue i ON
491     m.MemberID = i.MemberID WHERE i.DateReturned > i.DateReturn;
```

Result Grid

MemberID	MemberName
LM002	ABDHUL
LM003	GAYAN
LM005	GURU

Problem # 7: Write a query to display the member id, member name and date of registration who have not taken any book.

```
492
493 • select m.MemberID,m.MemberName,m.DateRegister from lms_members m WHERE m.MemberID NOT IN
494 (select MemberID from lms_book_issue)
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

MemberID	MemberName	DateRegister
LM006	MOHAN	2012-04-12

Problem # 8: Write a Query to display the member id and member name of the members who has not paid any fine in the year 2012.

```
496 • select m.MemberID,m.MemberName from lms_members m INNER JOIN lms_book_issue i ON
497 m.MemberID = i.MemberID WHERE i.DateReturned < i.DateReturn AND YEAR(i.DateIssue) = 2012
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

MemberID	MemberName
----------	------------

Problem # 9: Write a query to display the date on which the maximum numbers of books were issued and the number of books issued with alias name "NOOFBOOKS"

```
500 • select DateIssue,COUNT(BookCode) NOOFBOOKS from lms_book_issue group by DateIssue;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

DateIssue	NOOFBOOKS
2012-05-01	2
2012-02-12	1
2012-04-19	1
2012-07-11	1

Problem # 10: Write a query to list the book title and supplier id for the books authored by "Herbert Schildt" and the book edition is 5 and supplied by supplier 'S01'

```
502 • select BookTitle,SupplierID from lms_book_details WHERE Author = 'Herbert Schildt'
503 AND BookEdition = 5 AND SupplierID = 'S01'
504
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
BookTitle	SupplierID			
Java: The Complete Reference	S01			

Problem # 11: Write a query to display the rack number and the number of books in each rack with alias name "NOOFBOOKS" and sort by rack number in ascending order.

```
504
505 • select RackNum,Count(BookCode) NOOFBOOKS from lms_book_details GROUP BY RackNum ORDER BY RackNum;
506
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
RackNum	NOOFBOOKS			
A1	6			
A3	2			

Problem # 12: Write a query to display book issue number, member name, date of registration, date of expiry, book title, category author, price, date of issue, date of return, actual returned date, issue status, fine amount.

```
507 • select i.BookIssueNo,m.MemberName,m.DateRegister,m.DateExpire,b.booktitle,
508 b.Category,b.Author,b.Price,i.DateIssue AS 'date of issue',i.DateReturn AS 'date of return',
509 i.DateReturned AS 'Actual Returned Date',i.BookIssueStatus AS 'IssueStatus',f.FineAmount
510 from lms_book_issue i inner join lms_members m on i.MemberID = m.MemberID
511 INNER JOIN lms_fine_details f on i.FineRange = f.FineRange
512 INNER JOIN lms_book_details b ON i.BookCode = b.BookCode;
```

<div><div>Result Grid</div><div><div><div></div></div><div>Filter Rows:</div><div></div></div><div><div>Export:</div><div><div></div></div></div><div>Wrap Cell Content: ↕</div></div>											
	BookIssueNo	MemberName	DateRegister	DateExpire	booktitle	Category	Author	Price	date of issue	date of return	
▶	4	RADHA	2012-04-22	2013-04-21	Java How To Do Program	JAVA	Paul J. Deitel	600	2012-05-01	2012-05-01	
	3	GAYAN	2013-05-12	2013-05-14	Let Us C	C	Yashavant Kanetkar	500	2012-04-19	2012-04-19	
	1	AMIT	2012-02-20	2013-11-02	Java How To Do Program	JAVA	Paul J. Deitel	600	2012-05-01	2012-05-01	
	5	GURU	2012-03-30	2013-03-29	Let Us C	C	Yashavant Kanetkar	500	2012-07-11	2012-07-11	
	2	ABDHUL	2012-04-10	2013-04-09	Java: The Complete Reference	JAVA	Herbert Schildt	750	2012-02-12	2012-02-12	

Problem # 13: Write a query to display the book code, title, publish date of the books which is been published in the month of December.

```
514 • select BookCode,BookTitle,PublishDate from lms_book_Details WHERE Month(PublishDate) = 12;
```

Result Grid			
Filter Rows: <input type="text"/>			
Edit: Export/Import: Wrap Cell Content:			
	BookCode	BookTitle	PublishDate
▶	BL000005	Java How To Do Program	1999-12-10
	BL000007	Let Us C	2010-12-11
	BL000008	Let Us C	2010-12-11
*	NULL	NULL	NULL

Problem # 14: Write a query to display the book code, book title and availability status of the 'JAVA' books whose edition is "5". Show the availability status with alias name "AVAILABILITYSTATUS". Hint: Book availability status can be fetched from "BOOK_ISSUE_STATUS" column of LMS_BOOK_ISSUE table.

```
516 • select b.BookCode,b.BookTitle,CASE WHEN i.BookIssueStatus = 'Y' THEN 'Yes'
517 WHEN i.BookIssueStatus = 'N' THEN 'No'
518 ELSE 'Yes' END AS AVAILABILITYSTATUS
519 from lms_book_details b left join lms_book_issue i on b.BookCode = i.BookCode
520 WHERE b.Category = 'JAVA' AND b.BookEdition = 5
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	BookCode	BookTitle	AVAILABILITYSTATUS
▶	BL000002	Java: The Complete Reference	No
	BL000004	Java: The Complete Reference	Yes
	BL000006	Java: The Complete Reference	Yes

Complex Questions: Problem # 1: Write a query to display the book code, book title and supplier name of the supplier who has supplied maximum number of books. For example, if “ABC Store” supplied 3 books, “LM Store” has supplied 2 books and “XYZ Store” has supplied 1 book. So “ABC Store” has supplied maximum number of books, hence display the details as mentioned below.

```
522 • select b.BookTitle,s.SupplierName from lms_Book_details b INNER JOIN lms_suppliers_details s
523   where s.SupplierID = (select SupplierID
524     from lms_Book_Details group by SupplierID ORDER BY Count(SupplierID) DESC LIMIT 1 OFFSET 0)
525   group by b.BookTitle,s.SupplierName;
526
```

Result Grid	
BookTitle	SupplierName
Java How To Do Program	SINGAPORE SHOPPEE
Java: The Complete Reference	SINGAPORE SHOPPEE
Let Us C	SINGAPORE SHOPPEE

Problem # 2: Write a query to display the member id, member name and number of remaining books he/she can take with “REMAININGBOOKS” as alias name. Hint: Assuming a member can take maximum 3 books. For example, Ramesh has already taken 2 books; he can take only one book now. Hence display the remaining books as 1 in below format.

```
527 • select m.MemberID,m.MemberName, 3 -
528   (select Count(b1.BookCode) from lms_book_issue b1 where b1.MemberID = m.MemberID
529     AND b1.BookIssueStatus = 'N')
530   AS REMAININGBOOKS from lms_members m LEFT join lms_book_issue i ON
531     m.MemberID = i.MemberID
532   group by m.MemberID,m.MemberName;
533
```

Result Grid			
MemberID	MemberName	REMAININGBOOKS	
LM001	AMIT	2	
LM002	ABDHUL	2	
LM003	GAYAN	3	
LM004	RADHA	3	
LM005	GURU	2	
LM006	MOHAN	3	

Problem # 3 Write a query to display the supplier id and supplier name of the supplier who has supplied minimum number of books. For example, if “ABC Store” supplied 3 books, “LM Store” has supplied 2 books and “XYZ Store” has supplied 1 book. So “XYZ Store” has supplied minimum number of books, hence display the details as mentioned below.

```
533
534 • select s.SupplierID,s.SupplierName from lms_suppliers_details s
535 where s.SupplierID = (select SupplierID
536 from lms_Book_Details group by SupplierID ORDER BY Count(SupplierID) LIMIT 1 OFFSET 0)
537 group by s.SupplierID,s.SupplierName;
538
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	SupplierID	SupplierName
►	S04	KAVARI STORE