

## Documentation queries with outputs

-- Task 3: Writing Basic SELECT Queries

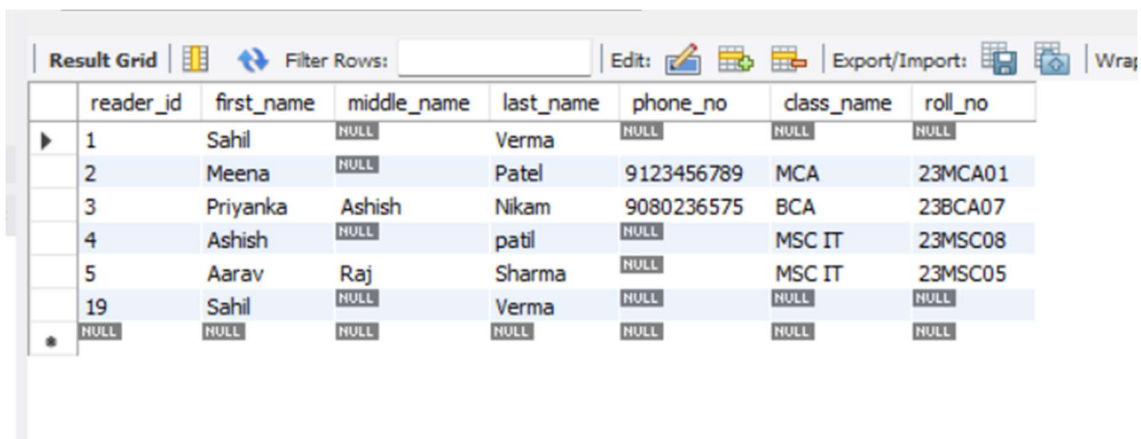
-- Database: library\_management\_system

USE library\_management\_system;

-- 1. SELECT \* from a table

SELECT \* FROM Readers;

Output:-



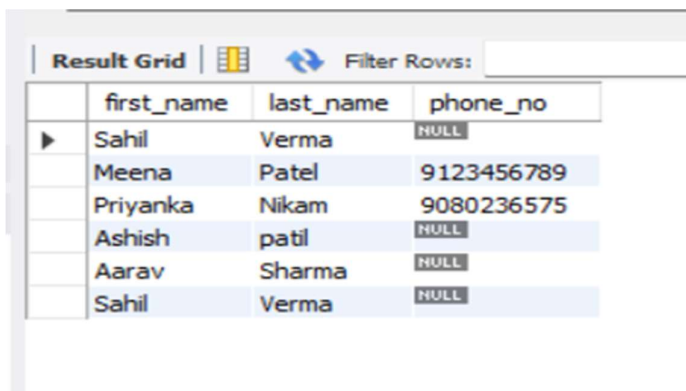
The screenshot shows a database result grid with a toolbar at the top containing icons for 'Result Grid', 'Filter Rows', 'Edit', and 'Export/Import'. The grid displays the following data:

	reader_id	first_name	middle_name	last_name	phone_no	class_name	roll_no
▶	1	Sahil	NULL	Verma	NULL	NULL	NULL
	2	Meena	NULL	Patel	9123456789	MCA	23MCA01
	3	Priyanka	Ashish	Nikam	9080236575	BCA	23BCA07
	4	Ashish	NULL	patil	NULL	MSC IT	23MSC08
	5	Aarav	Raj	Sharma	NULL	MSC IT	23MSC05
	19	Sahil	NULL	Verma	NULL	NULL	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- 2. SELECT specific columns

SELECT first\_name, last\_name, phone\_no FROM Readers;

Output:-



The screenshot shows a database result grid with a toolbar at the top containing icons for 'Result Grid', 'Filter Rows', and 'Edit'. The grid displays the following data:

	first_name	last_name	phone_no
▶	Sahil	Verma	NULL
	Meena	Patel	9123456789
	Priyanka	Nikam	9080236575
	Ashish	patil	NULL
	Aarav	Sharma	NULL
	Sahil	Verma	NULL

## Documentation queries with outputs

-- 3. WHERE condition

```
SELECT * FROM Books WHERE category = 'Programming';
```

Output:-

[illegible]

#### -- 4. WHERE with AND

```
SELECT * FROM Readers WHERE class_name = 'MCA' AND phone_no IS NOT NULL;
```

Output:-

[illegible]

## -- 5. WHERE with OR

```
SELECT * FROM Readers WHERE class_name = 'BCA' OR class_name = 'MSC IT';
```

Output:-

[illegible]

## Documentation queries with outputs

## -- 6. LIKE operator

```
SELECT * FROM Readers WHERE first_name LIKE 'A%';
```

Output:-

<b>Result Grid</b>			Filter Rows:	<input type="text"/>	Edit:				Export/Import:		
	reader_id	first_name	middle_name	last_name	phone_no	class_name	roll_no				
	4	Ashish	NULL	patil	NULL	MSC IT	23MSC08				
	5	Aarav	Raj	Sharma	NULL	MSC IT	23MSC05				
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL				

-- 7. BETWEEN

```
SELECT * FROM Books WHERE price BETWEEN 200 AND 400;
```

Output:-

[illegible]

-- 8. ORDER BY ascending

```
SELECT * FROM Books ORDER BY price ASC;
```

Output:-

[illegible]

## Documentation queries with outputs

-- 9. ORDER BY descending

```
SELECT * FROM Books ORDER BY price DESC;
```

Output:-

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap C

	isbn	title	author	sr_no	publisher	price	category
▶	ISBN12346	Python Made Easy	Ramesh N.	SR 103	NULL	399.00	Education
	ISBN12345	Let Us C	Yashwant Kanetkar	SR 101	BPB	299.50	Programming
	ISBN12387	java	Dr.Kumar	SR 102	BPB	NULL	Programing
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- 10. LIMIT output rows

```
SELECT * FROM Readers LIMIT 3;
```

Output:-

Result Grid

Filter Rows:

Edit:

Export/Import:

	reader_id	first_name	middle_name	last_name	phone_no	class_name	roll_no
▶	1	Sahil	NULL	Verma	NULL	NULL	NULL
	2	Meena	NULL	Patel	9123456789	MCA	23MCA01
	3	Priyanka	Ashish	Nikam	9080236575	BCA	23BCA07
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- 11. = vs IN example (=)

```
SELECT * FROM Books WHERE category = 'Programming';
```

Output:-

Result Grid

Filter Rows:

Edit:

Export/Import:

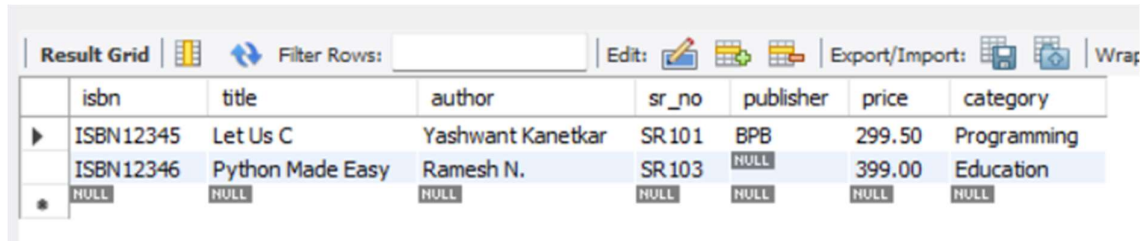
	isbn	title	author	sr_no	publisher	price	category
▶	ISBN12345	Let Us C	Yashwant Kanetkar	SR 101	BPB	299.50	Programming
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Documentation queries with outputs

-- 12. = vs IN example (IN)

```
SELECT * FROM Books WHERE category IN ('Programming', 'Education');
```

Output:-



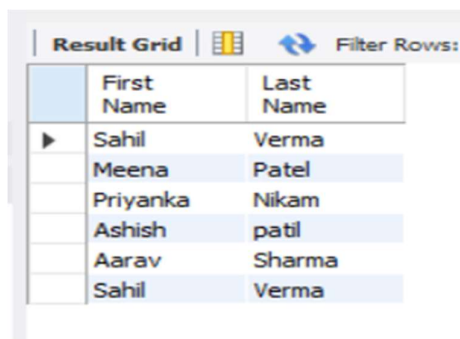
The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap'. The grid displays the results of the SQL query. It has 8 columns: isbn, title, author, sr\_no, publisher, price, and category. There are three rows of data. The first row has isbn 'ISBN12345', title 'Let Us C', author 'Yashwant Kanetkar', sr\_no 'SR 101', publisher 'BPB', price '299.50', and category 'Programming'. The second row has isbn 'ISBN12346', title 'Python Made Easy', author 'Ramesh N.', sr\_no 'SR 103', publisher 'NULL', price '399.00', and category 'Education'. The third row has all fields set to 'NULL'.

isbn	title	author	sr_no	publisher	price	category
ISBN12345	Let Us C	Yashwant Kanetkar	SR 101	BPB	299.50	Programming
ISBN12346	Python Made Easy	Ramesh N.	SR 103	NULL	399.00	Education
NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- 13. Aliasing

```
SELECT first_name AS 'First Name', last_name AS 'Last Name' FROM Readers;
```

Output:-



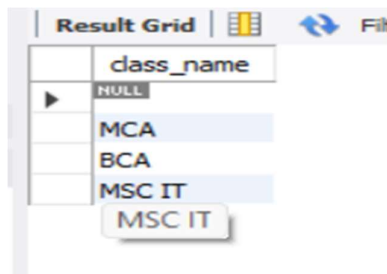
The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter Rows' and 'Filter'. The grid displays the results of the SQL query. It has 2 columns: 'First Name' and 'Last Name'. There are six rows of data. The first row has 'Sahil' and 'Verma'. The second row has 'Meena' and 'Patel'. The third row has 'Priyanka' and 'Nikam'. The fourth row has 'Ashish' and 'patil'. The fifth row has 'Aarav' and 'Sharma'. The sixth row has 'Sahil' and 'Verma'.

First Name	Last Name
Sahil	Verma
Meena	Patel
Priyanka	Nikam
Ashish	patil
Aarav	Sharma
Sahil	Verma

-- 14. DISTINCT

```
SELECT DISTINCT class_name FROM Readers;
```

Output:-



The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter' and 'Filter Rows'. The grid displays the results of the SQL query. It has 1 column: 'class\_name'. There are five rows of data. The first row is 'NULL'. The second row is 'MCA'. The third row is 'BCA'. The fourth row is 'MSC IT'. The fifth row is 'MSC IT'.

class_name
NULL
MCA
BCA
MSC IT
MSC IT

## Documentation queries with outputs

-- 15. Default sort order

```
SELECT * FROM Books ORDER BY title; -- default ASC
```

Output:-

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap C

	isbn	title	author	sr_no	publisher	price	category
▶	ISBN12387	java	Dr.Kumar	SR102	BPB	NULL	Programing
	ISBN12345	Let Us C	Yashwant Kanetkar	SR101	BPB	299.50	Programming
	ISBN12346	Python Made Easy	Ramesh N.	SR103	NULL	399.00	Education
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL