Sr, NO	SQl Querry	Output

1	Creating table for all the entity book , student, library
	
	CREATE TABLE Library(
	
	  Lib_ID int UNIQUE PRIMARY KEY NOT NULL,
	
	  Lib_name varchar(50) NOT NULL UNIQUE,
	
	  Qualification varchar(50) NOT NULL CHECK(Qualification >=12),
	
	  Ph_No bigint UNIQUE NOT NULL CHECK(Ph_No = 10)
	
	  );
		Library
		
		| Lib_ID
			lib_name	qualification	contact_no

---	---	---	---
empty				

	CREATE TABLE Book(
	    Book_ID int PRIMARY KEY UNIQUE NOT NULL,
	    Book_Name varchar(50) UNIQUE NOT NULL,
	    Author varchar(50) NOT NULL,
	    Publisher varchar(50) NOT NULL
	);
		Book
		
		| Book_ID
			book_name	author	publisher

---	---	---	---
empty				

	CREATE TABLE Student(
	    Student_ID int UNIQUE NOT NULL PRIMARY KEY,
	    S_name varchar(50) NOT NULL,
	    Roll_no int UNIQUE NOT NULL,
	    Branch varchar(50) NOT NULL DEFAULT ECE
	
	);
		Student
		
		| Student_ID
			s_name	roll_no	Branch

---	---	---	---
empty				

Sr, NO	SQl Querry	Output

1	-- Inserting data into tables
	
	 INSERT INTO Library(Lib_ID, Lib_name,Qualification, Ph_No) values
	    (1, 'Central Library','B.Tech','8080623200'),
	    (2,'Dr.Abdul Kalam Library','Diploma','8757347979'),
	    (3,'Mit Library','M.Tech','9355687090') ;
		Library
		
		| Lib_ID
			Lib_name	Qualification	Ph_No

---	---	---	---
1	Central Library	B.Tech	8080623200
2	Dr.Abdul Kalam Library	Diploma	8757347979
3	Mit Library	M.Tech	9355687090	

	INSERT INTO Book(Book_ID,Book_Name,Author,Publisher) values
	    (1, 'Wings Of Fire','Arun Tiwari','Universities Press'),
	    (2,'Atomic Habits','James Clear','Pearson'),
	    (3,'The Great Getsby','F. Scott Fitzgerald','Charles Shribners') ;
		Book
		
		| Book_ID
			Book_Name	Author	Publisher

---	---	---	---
1	Wings Of Fire	Arun Tiwari	Universities Press
2	Atomic Habits	James Clear	Pearson
3	The Great Getsby	F. Scott Fitzgerald	Charles Shribners	

	INSERT INTO Student (Student_ID, S_name, Roll_no) VALUES
	    (1, 'Akshay Kale', 38),
	    (2, 'Bhairu Salunke', 6),
	    (3, 'Anjali Dombe', 21),
	    (4, 'Raj Narwade', 12, 'ME'),
	    (5, 'Sakshi Kharpe', 16, 'IT'),
	    (6, 'Yogesh Salunke', 7, 'EE');
		Student
		
		| Student_ID
			S_name	Roll_no	Branch

---	---	---	---
1	Akshay Kale	38	ECE
2	Bhairu Salunke	6	ECE
3	Anjali Dombe	21	ECE
4	Raj Narwade	12	ME
5	Sakshi Kharpe	16	IT
6	Yogesh Salunke	7	EE	

Sr, NO	SQl Querry	Output
	WHERE clause SELECT * FROM Student WHERE Roll_no < 22;	<table><tr><th>Student_ID</th><th>S_name</th><th>Roll_no</th><th>Branch</th></tr><tr><td>2</td><td>Bhairu Salunke</td><td>6</td><td>ECE</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr></table>
	GROUP BY Clause SELECT Branch, COUNT(*) AS Total_Students FROM Student GROUP BY Branch;	<table><tr><th>Branch</th><th>Total_Students</th></tr><tr><td>ECE</td><td>3</td></tr><tr><td>EE</td><td>1</td></tr><tr><td>IT</td><td>1</td></tr><tr><td>ME</td><td>1</td></tr></table>

Sr, NO	SQl Querry	Output
	ORDER BY (Ascending) SELECT* FROM Student ORDER BY Roll_no;	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>2</td><td>Bhairu Salunke</td><td>6</td><td>ECE</td></tr><tr><td>6</td><td>Yogesh Salunke</td><td>7</td><td>EE</td></tr><tr><td>4</td><td>Raj Narwade</td><td>12</td><td>ME</td></tr><tr><td>5</td><td>Sakshi Kharpe</td><td>16</td><td>IT</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr><tr><td>1</td><td>Akshay Kale</td><td>38</td><td>ECE</td></tr></table>
	(Descending) SELECT * FROM Student ORDER BY Roll_no DESC;	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>1</td><td>Akshay Kale</td><td>38</td><td>ECE</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr><tr><td>5</td><td>Sakshi Kharpe</td><td>16</td><td>IT</td></tr><tr><td>4</td><td>Raj Narwade</td><td>12</td><td>ME</td></tr><tr><td>6</td><td>Yogesh Salunke</td><td>7</td><td>EE</td></tr><tr><td>2</td><td>Bhairu Salunke</td><td>6</td><td>ECE</td></tr></table>
	Equal to (=) Operator SELECT * FROM Student WHERE Roll_no = 6;	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>2</td><td>Bhairu Salunke</td><td>6</td><td>ECE</td></tr></table>
	Greater than Operator SELECT * FROM Student WHERE Roll_no > 10;	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>4</td><td>Raj Narwade</td><td>12</td><td>ME</td></tr><tr><td>5</td><td>Sakshi Kharpe</td><td>16</td><td>IT</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr><tr><td>1</td><td>Akshay Kale</td><td>38</td><td>ECE</td></tr></table>

Sr, NO	SQl Querry	Output
	Less than SELECT * FROM Student WHERE Roll_no < 40;	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>2</td><td>Bhairu Salunke</td><td>6</td><td>ECE</td></tr><tr><td>6</td><td>Yogesh Salunke</td><td>7</td><td>EE</td></tr><tr><td>4</td><td>Raj Narwade</td><td>12</td><td>ME</td></tr><tr><td>5</td><td>Sakshi Kharpe</td><td>16</td><td>IT</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr><tr><td>1</td><td>Akshay Kale</td><td>38</td><td>ECE</td></tr></table>
	Greater than or equal to SELECT * FROM Student WHERE Roll_no >= 15;	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>5</td><td>Sakshi Kharpe</td><td>16</td><td>IT</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr><tr><td>1</td><td>Akshay Kale</td><td>38</td><td>ECE</td></tr></table>
	BETWEEN Operator SELECT * FROM Student WHERE Roll_no BETWEEN 10 AND 30;	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>4</td><td>Raj Narwade</td><td>12</td><td>ME</td></tr><tr><td>5</td><td>Sakshi Kharpe</td><td>16</td><td>IT</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr></table>
	Like Operator SELECT * FROM Student WHERE Branch LIKE 'e%';	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>1</td><td>Akshay Kale</td><td>38</td><td>ECE</td></tr><tr><td>2</td><td>Bhairu Salunke</td><td>6</td><td>ECE</td></tr><tr><td>3</td><td>Anjali Dombe</td><td>21</td><td>ECE</td></tr><tr><td>6</td><td>Yogesh Salunke</td><td>7</td><td>EE</td></tr></table>
	IN Operator SELECT * FROM Student WHERE Roll_no IN (6, 12, 16);	<table><tr><td>Student_ID</td><td>S_name</td><td>Roll_no</td><td>Branch</td></tr><tr><td>2</td><td>Bhairu Salunke</td><td>6</td><td>ECE</td></tr><tr><td>4</td><td>Raj Narwade</td><td>12</td><td>ME</td></tr><tr><td>5</td><td>Sakshi Kharpe</td><td>16</td><td>IT</td></tr></table>