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Project Title:	RDBMS usingSQL
S/w Used:	SQL Workbench
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#### **Abstract:**

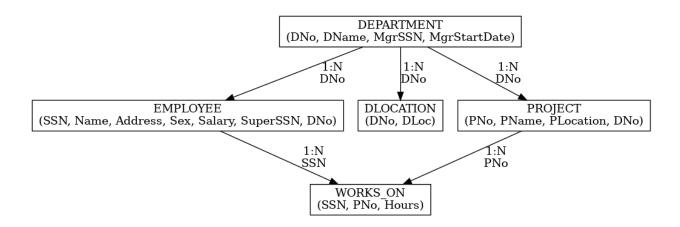
This project involves the design, implementation, and optimization of SQL queries for multiple database systems, including Company, Library, Movie, Order, and College databases. The objective is to demonstrate proficiency in database management and SQL operations by solving real-world problems related to employee management, academic performance tracking, library book lending, movie production, and sales order processing. The project encompasses the creation of relational database structures, the manipulation and retrieval of data using advanced SQL queries, and the application of techniques such as aggregation, subqueries, joins, and views. Through tasks such as updating employee salaries, managing library inventories, calculating student performance, and handling sales transactions, the project showcases the use of SQL in effectively managing and analyzing large datasets. The knowledge and skills gained from this project emphasize the practical applications of SQL in diverse business and academic environments, laying a strong foundation for database management roles in the industry.

#### **Introduction to the Project:**

The aim of this project is to develop and implement SQL-based solutions for various real-world scenarios by designing and managing databases in multiple domains, including company management, library systems, movie production, order processing, and academic performance tracking. This project focuses on creating relational databases and applying advanced SQL operations to retrieve, manipulate, and analyze data efficiently. Through the use of SQL queries, the project addresses key business needs such as employee management, inventory control, academic performance evaluation, and sales order processing. The scope of the project covers defining database schemas, creating tables, inserting data, and performing complex queries, which include aggregations, subqueries, joins, and other advanced SQL techniques. By building databases for these diverse systems, this project not only enhances the practical understanding of database management but also prepares the groundwork for real-world applications, making it suitable for roles in database administration, business intelligence, and data analytics.

**Project 1: Company Database Management System** 

#### ER Diagram:



The ER diagram for the **Company Database** provides a clear and organized representation of the database structure, highlighting the entities, their attributes, and the relationships between them. The diagram includes five primary entities: **EMPLOYEE**, **DEPARTMENT**, **DLOCATION**, **PROJECT**, and **WORKS\_ON**. Each table is uniquely identified by a primary key, ensuring data integrity, and foreign keys are used to establish relationships between the tables. For example, the **EMPLOYEE** table references the **DEPARTMENT** table through the DNo attribute, linking employees to their respective departments. Similarly, the **PROJECT** table is associated with the **DEPARTMENT** table through DNo, indicating which department controls a specific project. The **WORKS\_ON** table serves as a junction table, connecting employees to the projects they work on, and includes a composite primary key (SSN, PNo) to ensure uniqueness.

# **Table Descriptions and Dataset**

#### 1. EMPLOYEE

#### **Columns:**

- SSN (Primary Key)
- Ename
- Address
- Sex
- Salary
- SuperSSN (Foreign Key)
- DNo (Foreign Key)

# **Employee's Sample Data:**

SSN	Ename	Address	Sex	Salary	SuperSSN	DNo
111111111	Mike Scott	123A	M	700000.00		1
22222222	Jane Doe	BT	F	650000.00	111111111	2

#### 2. DEPARTMENT

#### **Columns:**

- DNo (Primary Key)
- DName
- MgrSSN (Foreign Key)
- MgrStartDate

# **DEPARTMENT'S Sample Data:**

DNo	DName	MgrSSN	MgrStartDate
1	Account	111111111	2024-09-25
2	HR	22222222	2019-03-01

#### **3.DLOCATION**

#### **Columns:**

- DNo
- DLOC

# **DLOCATION'S Sample Data:**

DNo	DLoc
1	NewYork
2	ScotLand

#### **4.PROJECT**

#### **Columns:**

- PNo(primary key)
- PName
- PLocation
- DNo(Foreign key)

# **Project's Sample Data:**

PNo	PName	PLocation	DNo
101	ЮТ	London	5
102	Cloud Migration	San Francisco	3

#### **5.WORKS ON**

#### **Columns:**

- SSN(ForeignKey)
- PNo(Foreign Key)
- Hours

# **Works On Sample Data:**

SSN	PNo	Hours
111111111	101	20:00
22222222	102	15:00

Query1. Make a list of all project numbers for projects that involve an employee whose last name is 'Scott', either as a worker or as a manager of the department that controls the project.

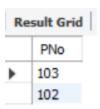
SELECT DISTINCT P.PNo

FROM PROJECT P

JOIN DEPARTMENT D ON P.DNo = D.DNo

LEFT JOIN EMPLOYEE E ON E.DNo = P.DNo OR E.SSN = P.PNo

WHERE (E.Ename LIKE '%Scott%' OR D.MgrSSN = E.SSN);



Query2. Show the resulting salaries if every employee working on the 'IoT' project is given a 10 percent raise.

SELECT E.Ename, E.Salary, E.Salary \* 1.10 AS NewSalary

FROM EMPLOYEE E

JOIN WORKS ON W ON E.SSN = W.SSN

JOIN PROJECT P ON W.PNo = P.PNo

WHERE P.PName = 'IoT'';

	Ename	Salary	NewSalary	
•	Mike Scott	700000.00	770000.0000	
	Trixie Scott	500000.00	550000.0000	
	Tim Lee	550000.00	605000.0000	

Query3. Find the sum of the salaries of all employees of the 'Accounts' department, as well as the maximum salary, the minimum salary, and the average salary in this department.

**SELECT** 

SUM(E.Salary) AS TotalSalaries,

MAX(E.Salary) AS MaxSalary,

MIN(E.Salary) AS MinSalary,

AVG(E.Salary) AS AvgSalary

FROM EMPLOYEE E

JOIN DEPARTMENT D ON E.DNo = D.DNo

WHERE D.DName = 'Accounts';

	TotalSalaries	MaxSalary	MinSalary	AvgSalary
•	1200000.00	700000.00	500000.00	600000.000000

Query4. Retrieve the name of each employee who works on all the projects controlled by department number 4 (use NOT EXISTS operator). For each department that has more than five employees, retrieve the department number and the number of its employees who are making more than Rs. 6,00,000.

```
SELECT E.Ename

FROM EMPLOYEE E

WHERE NOT EXISTS (
SELECT P.PNo

FROM PROJECT P

WHERE P.DNo = 4

AND NOT EXISTS (
SELECT W.SSN

FROM WORKS_ON W

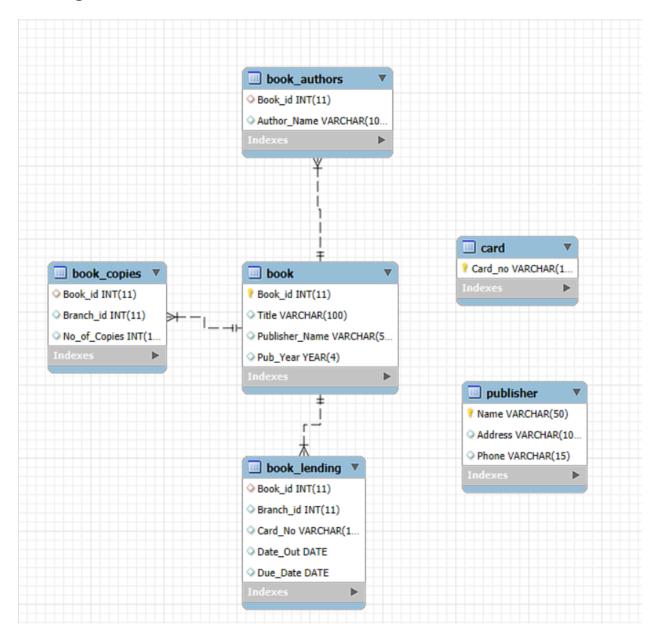
WHERE W.PNo = P.PNo

AND W.SSN = E.SSN
)
)
);
```

	Ename
•	Mike Scott
	Jane Doe
	Robert Smith
	Trixie Scott
	Michael Jackson
	Tim Lee

## **Project 2: Library Database Management System**

# **ER Diagram:**



## **Table Descriptions and Dataset**

#### **BOOK**

#### Columns::

- Book\_id (Primary Key):
- Title:
- Publisher Name:
- Pub Year:

# Book's sample data:

BOOK_ID	Title	Publisher_name	Pub_Year
1	Indian Culture	Publisher A	2016
2	Modern India	Publisher B	2017

# **BOOK\_AUTHORS Table**

### **Columns:**

- Book\_id (Foreign Key):
- Author Name:

# **Book\_Author's sample data:**

Book_ID	Author_Name
1	Ravi Sharma
2	Anil Gupta

12

#### **Publisher Table**

#### **Columns:**

- Name (Primary Key)
- Address
- Phone

### Publisher's sample data:

Name	Address	Phone
Publisher A	Mumbai, India	9876543210
Publisher B	Delhi, India	9876543211

### **BOOK\_COPIES**

#### **Columns:**

- Book\_id (Foreign Key)
- Branch\_id
- No\_of\_Copies
- Composite Primary Key: Book\_id and Branch\_id.

# **Book\_Copies sample data:**

Book_id	Branch_id	Card_No
1	1	10
1	2	15

#### **BOOK LENDING TABLE**

#### **Columns:**

- Book\_id (Foreign Key)
- Branch\_id (Foreign Key):
- Card No
- Date Out
- Due Date
- Composite Primary Key: Book\_id and Branch\_id.

# **Book Lending sample data**:

Book_id	Branch_id	Card_No	Date_Out	Due_Date
1	1	C007	2017-01-10	2017-01-20
1	2	C006	2017-05-05	2017-05-15

#### LIBRARY BRANCH TABLE

#### **Columns:**

- Branch\_id (Primary Key)
- Branch\_Name
- Address

Branch_id	Branch_Name	Address
1	Mumbai Branch	Mumbai,India
2	Delhi Branch	Delhi,India

#### **CARD TABLE**

#### **Columns:**

• Card\_No(Primary Key)

### Card\_No Sample Data:

Card_No	
C001	
C002	
C003	

# Query 1. Retrieve details of all books in the library – id, title, name of publisher, authors, number of copies in each branch, etc.

 $SELECT\ B.Book\_id,\ B.Title,\ B.Publisher\_Name,\ B.Pub\_Year,\ A.Author\_Name,$ 

BC.Branch\_id, BC.No\_of\_Copies

FROM BOOK B

JOIN BOOK\_AUTHORS A ON B.Book\_id = A.Book\_id

JOIN BOOK\_COPIES BC ON B.Book\_id = BC.Book\_id;

	Book_id	Title	Publisher_Name	Pub_Year	Author_Name	Branch_id	No_of_Copies
•	1	Indian Culture	Publisher A	2016	Ravi Sharma	1	10
	1	Indian Culture	Publisher A	2016	Ravi Sharma	2	15
	2	Modern India	Publisher B	2017	Anil Gupta	1	5
	3	History of India	Publisher A	2015	Kiran Mehta	2	7
	4	Indian Architecture	Publisher C	2018	Sunita Desai	1	12
	5	Indian Festivals	Publisher A	2019	Rajesh Kumar	2	8

# Query 2. Get the particulars of borrowers who have borrowed more than 3 books, but from Jan 2017 to Jun 2017

SELECT BL.Card\_No, COUNT(\*) AS Total\_Books\_Borrowed
FROM BOOK\_LENDING BL
WHERE BL.Date\_Out BETWEEN '2017-01-01' AND '2017-06-30'
GROUP BY BL.Card\_No

Card\_No Total\_Books\_Borrowed

C001 5

HAVING COUNT(\*) > 3;

# Query 3. Delete a book in the BOOK table. Update the contents of other tables to reflect this data manipulation operation.

DELETE FROM BOOK\_LENDING WHERE Book\_id = 1;

DELETE FROM BOOK\_COPIES WHERE Book\_id = 1;

DELETE FROM BOOK\_AUTHORS WHERE Book\_id = 1;

DELETE FROM BOOK WHERE Book\_id = 1;

# Query 4. Partition the BOOK table based on year of publication. Demonstrate its working with a simple query.

CREATE VIEW available\_books AS

SELECT B.Book\_id, B.Title, B.Publisher\_Name, BC.Branch\_id, BC.No\_of\_Copies

FROM BOOK B

JOIN BOOK\_COPIES BC ON B.Book\_id = BC.Book\_id

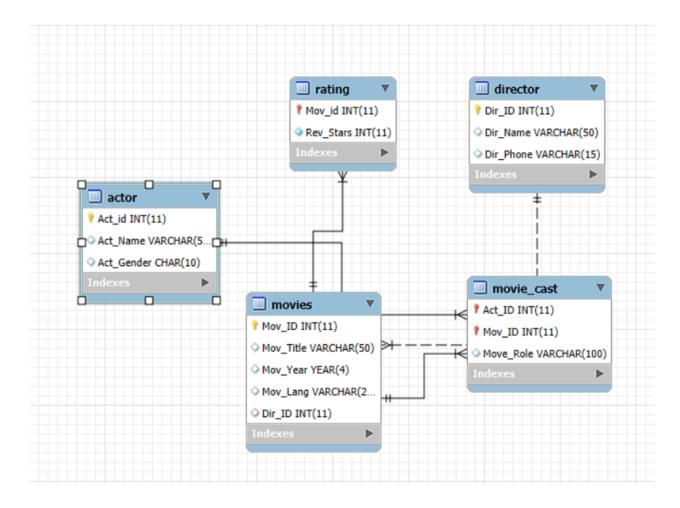
WHERE BC.No\_of\_Copies > 0;

select\*from available\_books;

	Book_id	Title	Publisher_Name	Branch_id	No_of_Copies
•	1	Indian Culture	Publisher A	1	10
	1	Indian Culture	Publisher A	2	15
	2	Modern India	Publisher B	1	5
	3	History of India	Publisher A	2	7
	4	Indian Architecture	Publisher C	1	12
	5	Indian Festivals	Publisher A	2	8

### **Project 3: Movie Database Management System**

### ER Diagram:



# **Table Descriptions and Dataset**

#### **ACTOR**

- Act\_id (INT, Primary Key)
- Act\_Name (VARCHAR(50))
- Act\_Gender (CHAR(10)).

### **Actor Sample Data:**

Act_id	Act_Name	Act_Gender
1	Tom Hanks	Male
2	Leonardo DiCaprio	Male

#### **DIRECTOR**

- Dir\_id (INT, Primary Key)
- Dir\_Name (VARCHAR(50))
- Dir\_Phone (VARCHAR(15))

•

# **Director's Sample Data:**

Dir_ID	Dir_Name	Dir_Phone
1	Hitchcock	1234567890
2	Steven Spielberg	0987654321

#### **MOVIES**

- Mov\_id (INT, Primary Key):
- Mov\_Title (VARCHAR(50)):
- Mov\_Year (YEAR):
- Mov\_Lang (VARCHAR(20)):
- Dir\_id (INT, Foreign Key):

### **Movies Sample Data:**

Mov_ID	Mov_Title	Mov_year	Mov_Lang	Dir_ID
101	Psycho	1960	English	1
102	Vertigo	1958	English	1

### MOVIE\_CAST

- Act\_id (INT, Foreign Key):
- Mov\_id (INT, Foreign Key):
- Role (VARCHAR(100)):
- Composite Primary Key: (Act\_id, Mov\_id).

#### Movie\_Cast Sample Data:

Act_ID	Mov_ID	Movie_Role
1	101	Protagonist
1	106	Lead

#### **RATING**

- Mov\_id (INT, Primary Key, Foreign Key)
- Rev\_Stars (INT, NOT NULL)

# **Rating Sample Data:**

Mov_ID	Rev_Stars
101	5
102	4

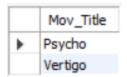
# Query 1. List the titles of all movies directed by 'Hitchcock'.

SELECT M.Mov Title

FROM MOVIES M

JOIN DIRECTOR D ON M.Dir\_ID = D.Dir\_ID

WHERE D.Dir\_Name = 'Hitchcock';



# Query 2. Find the movie names where one or more actors acted in two or more movies.

SELECT M.Mov\_Title

FROM MOVIES M

JOIN MOVIE\_CAST MC ON M.Mov\_ID = MC.Mov\_ID

GROUP BY M.Mov\_Title

HAVING COUNT(MC.Act ID)  $\geq 2$ ;



# Query 3. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

#Actors in movies before 2000:

SELECT A.Act\_Name, M.Mov\_Title, M.Mov\_Year

FROM ACTOR A

JOIN MOVIE\_CAST MC ON A.Act\_ID = MC.Act\_ID

JOIN MOVIES M ON MC.Mov\_ID = M.Mov\_ID

WHERE M.Mov\_Year < 2000;

#Actors in movies after 2015:

SELECT A.Act\_Name, M.Mov\_Title, M.Mov\_Year

FROM ACTOR A

JOIN MOVIE CAST MC ON A.Act ID = MC.Act ID

JOIN MOVIES M ON MC.Mov ID = M.Mov ID

WHERE M.Mov\_Year > 2015;

	Act_Name	Mov_Title	Mov_Year
•	Tom Hanks	Psycho	1960
•	Tom Hanks	Tenet	2020
	Scarlett Johansso	n Tenet	2020

Query 4. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.

SELECT M.Mov\_Title, R.Rev\_Stars

FROM MOVIES M

JOIN RATING R ON M.Mov ID = R.Mov ID

WHERE R.Rev Stars IS NOT NULL

GROUP BY M.Mov\_Title

ORDER BY M.Mov\_Title;

	Mov_Title	Rev_Stars
•	Inception	4
	Jaws	5
	Psycho	5
	Schindler's List	5
	Tenet	5
	Vertigo	4

## Query 5. Update rating of all movies directed by 'Steven Spielberg' to 5.

```
UPDATE RATING

SET Rev_Stars = 5

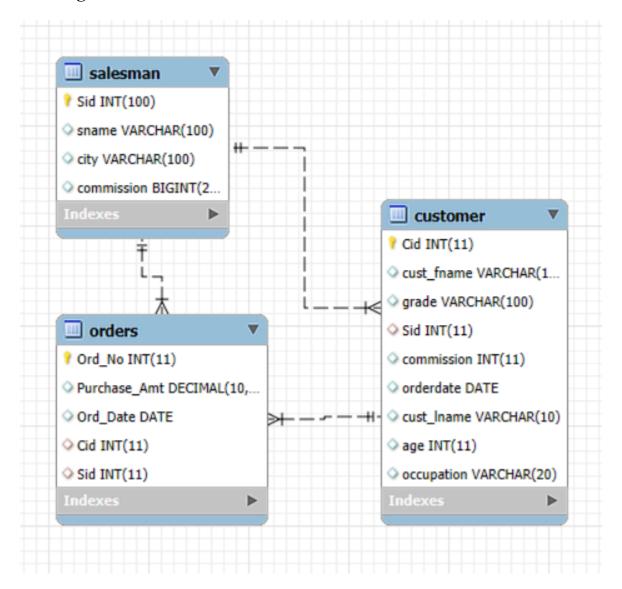
WHERE Mov_id IN (
    SELECT Mov_id
    FROM MOVIES

JOIN DIRECTOR ON MOVIES.Dir_id = DIRECTOR.Dir_id
    WHERE Dir_Name = 'Steven Spielberg'
);
select*from RATING;
```

	Mov_id	Rev_Stars
•	101	5
	102	4
	103	5
	104	5
	105	4
	106	5

#### **Project 4: Order Database Management System**

# ER Diagram:



# **Table Descriptions and Dataset**

#### **SALESMAN**

- Salesman\_id (INT, Primary Key)
- Name (VARCHAR(50))
- City (VARCHAR(50))
- Commission (DECIMAL(5, 2))

## Salesman Sample Data:

Sid	sname	city	commission
1	virat	Bihar	26
2	Suraj	Ranchi	

#### **CUSTOMER**

- Customer id (INT, Primary Key)
- Cust\_Name (VARCHAR(50))
- City (VARCHAR(50))
- Grade (INT)
- Salesman\_id (INT, Foreign Key)

# **Customer Sample Data:**

Cid	cust_fname	grade	Sid	commissi	orderdate	cust_lna me	age	occupation
1	ffjr	В	2	7	2024-07-13	sdhaks	20	actor
2	edheu	A	3	6	2024-04-12	dddjs	30	actor

#### **ORDERS**

- o Ord\_No (INT, Primary Key)
- Purchase Amt (DECIMAL(10, 2))
- o Ord Date (DATE)
- o Customer\_id (INT, Foreign Key)
- o Salesman\_id (INT, Foreign Key)

#### **Order's Sample Data:**

Ord_No	Purchase_Amt	Ord_Date	Cid	Sid
1	150.00	2024-07-13	1	2
2	200.00	2024-04-12	2	3

### Query 1. Count the customers with grades above 's average.

```
SELECT COUNT(*) AS Customers Above Average Grade
```

FROM CUSTOMER

#### **WHERE**

Grade > (SELECT AVG(

**CASE** 

WHEN Grade = 'A' THEN 3

WHEN Grade = 'B' THEN 2

WHEN Grade = 'C' THEN 1

ELSE 0

END) AS avg grade

FROM CUSTOMER);

# Query 2. Find the name and numbers of all salesmen who had more than one customer.

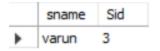
SELECT S.sname, S.Sid

FROM Salesman S

INNER JOIN CUSTOMER C ON S.Sid = C.Sid

GROUP BY S.sname, S.Sid

HAVING COUNT(C.Cid) > 1;



# Query 3. List all salesmen and indicate those who have and don't have customers in their cities

SELECT S.sname, S.Sid, 'Has Customers' AS Status

FROM Salesman S

INNER JOIN CUSTOMER C ON S.Sid = C.Sid

WHERE S.city = C.city

**UNION** 

SELECT S.sname, S.Sid, 'No Customers' AS Status

FROM Salesman S

LEFT JOIN CUSTOMER C ON S.Sid = C.Sid

WHERE C.Sid IS NULL OR S.city != C.city;

select\*from salesman;

select\*from customer;

select\*from orders;

	Ord_No	Purchase_Amt	Ord_Date	Cid	Sid
•	1	150.00	2024-07-13	1	2
	2	200.00	2024-04-12	2	3
	3	350.00	2023-04-12	3	3
	4	450.00	2024-12-24	4	4

# Query 4. Create a view that finds the salesman who has the customer with the highest order of a day.

CREATE OR REPLACE VIEW Top\_Salesman\_View AS

SELECT S.sname, S.Sid, C.cust\_fname, C.cust\_lname, O.Purchase\_Amt, O.Ord\_Date

FROM Salesman S

INNER JOIN ORDERS O ON S.Sid = O.Sid

INNER JOIN CUSTOMER C ON O.Cid = C.Cid

WHERE O.Purchase\_Amt = (SELECT MAX(Purchase\_Amt) FROM ORDERS WHERE Ord Date = O.Ord Date);

select\*from Top\_Salesman\_View;

	sname	Sid	cust_fname	cust_Iname	Purchase_Amt	Ord_Date
•	suraj	2	ffjr	sdhaks	150.00	2024-07-13
	varun	3	edheu	dddjs	200.00	2024-04-12
	varun	3	ekfhei	dddasj	350.00	2023-04-12
	kunal	4	jjfjfe	kaoops	450.00	2024-12-24

# Query 5. Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted.

DELETE FROM ORDERS

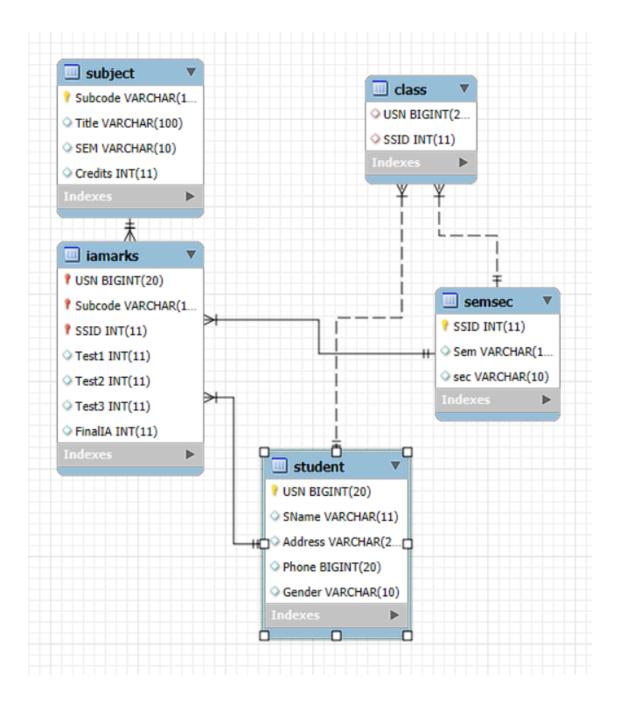
WHERE Sid = 101;

DELETE FROM Salesman

WHERE Sid = 101;

#### **Project 5: College Database Management System**

# ER Diagram:



# **Table Descriptions and Dataset**

#### **STUDENT**

- USN (BIGINT, Primary Key)
- SName (VARCHAR(11))
- Address (VARCHAR(20))
- Phone (BIGINT)
- Gender (VARCHAR(10))

# **Student Sample Data:**

USN	SName	Address	Phone	Gender
101	Alia	Bangalore	9876543210	F
102	Ranveer	Mysore	123456789	M

#### **SEMSEC**

- SSID (INT, Primary Key)
- Sem (VARCHAR(10))
- Sec (VARCHAR(10))

### **EMSEC Sample Data:**

SSID	Sem	Sec
1	4th	С
2	4th	A

#### **CLASS**

- USN (BIGINT, Foreign Key)
- SSID (INT, Foreign Key)

# **Class Sample Data:**

USN	SSID
101	5
102	1

#### **SUBJECT**

- Subcode (VARCHAR(10), Primary Key)
- Title (VARCHAR(100))
- Sem (VARCHAR(10))
- Credits (INT)

# **Subject Sample Data:**

Subcode	Title	Sem	Credits
CA401	Database Management	4th	4
CA402	Operating Systems	4th	3

#### **IAMARKS**

- USN (BIGINT, Foreign Key)
- Subcode (VARCHAR(10), Foreign Key)
- SSID (INT, Foreign Key)
- Test1 (INT)
- Test2 (INT)
- Test3 (INT)
- FinalIA (INT)

### **IAMarks Sample Data:**

USN	Subcode	SSID	Test1	Test2	Test3	FunalIA
101	CA401	5	12	14	10	26
102	CA402	1	15	18	20	38

# Query 1. List all the student details studying in the fourth semester 'C' section.

select \* from STUDENT S

inner join CLASS C on S.USN=C.USN

inner join SEMSEC SS on C.SSID =SS.SSID

where SS.Sem='4th'and SS.Sec='C';

	USN	SName	Address	Phone	Gender	USN	SSID	SSID	Sem	sec
Þ	102	Ranvir	Mysore	9876543211	М	102	1	1	4th	С

# Query 2. Compute the total number of male and female students in each semester and in each section.

SELECT SS.Sem, SS.Sec, S.Gender, S.USN, COUNT(\*) AS Total Students

FROM STUDENT S

INNER JOIN CLASS C ON S.USN = C.USN

INNER JOIN SEMSEC SS ON C.SSID = SS.SSID

GROUP BY SS.Sem, SS.Sec, S.Gender;

	Sem	Sec	Gender	USN	Total_Students
•	4th	Α	M	104	1
	4th	C	M	102	1
	6th	Α	F	101	1
	8th	В	F	105	1
	8th	C	F	103	1

# Query 3. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects.

CREATE OR REPLACE VIEW Test1\_Marks\_View AS

SELECT I.USN, I.Subcode, S.Title, I.Test1

FROM IAMARKS I

INNER JOIN SUBJECT S ON I.Subcode = S.Subcode

WHERE I.USN = 101;

SELECT \* FROM Test1 Marks View;

	USN	Subcode	Title	Test1
•	101	CA401	Database Management	12

# Query 4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students.

SET SQL\_SAFE\_UPDATES = 0;

UPDATE IAMARKS

SET FinalIA = ( (Test1 + Test2 + Test3) - LEAST(Test1, Test2, Test3) ) / 2;

SET SQL\_SAFE\_UPDATES = 1;

SELECT USN, Subcode, SSID, Test1, Test2, Test3, FinalIA FROM IAMARKS;

	USN	Subcode	SSID	Test1	Test2	Test3	FinalIA
•	101	CA401	5	12	14	10	26
	102	CA402	1	15	18	20	38
	103	CA403	4	18	17	16	35
	104	CA405	2	20	15	10	35
	105	CA406	3	10	11	10	21

## Query 5. Categorize students based on the following criterion:

If FinalIA = 17 to 20 then CAT = 'Outstanding'

If FinalIA = 12 to 16 then CAT = 'Average'

If FinalIA< 12 then CAT = 'Weak' Give these details only for 8th semester A, B, and C section students.

SELECT S.USN, S.SName, SS.Sem, SS.Sec, I.FinalIA,

**CASE** 

WHEN I.FinalIA BETWEEN 35 AND 40 THEN 'Outstanding'

WHEN I.FinalIA BETWEEN 25 AND 30 THEN 'Average'

WHEN I.FinalIA < 25 THEN 'Weak'

ELSE 'Uncategorized'

END AS CAT

FROM STUDENT S

INNER JOIN CLASS C ON S.USN = C.USN

INNER JOIN SEMSEC SS ON C.SSID = SS.SSID

INNER JOIN IAMARKS I ON S.USN = I.USN

WHERE SS.Sem = '8th' AND SS.Sec IN ('A', 'B', 'C');

	USN	SName	Sem	Sec	FinalIA	CAT
•	103	Deepika	8th	С	35	Outstanding
	105	Urvashi	8th	В	21	Weak