COURT CASES DATABASE

ER DIAGRAM:-
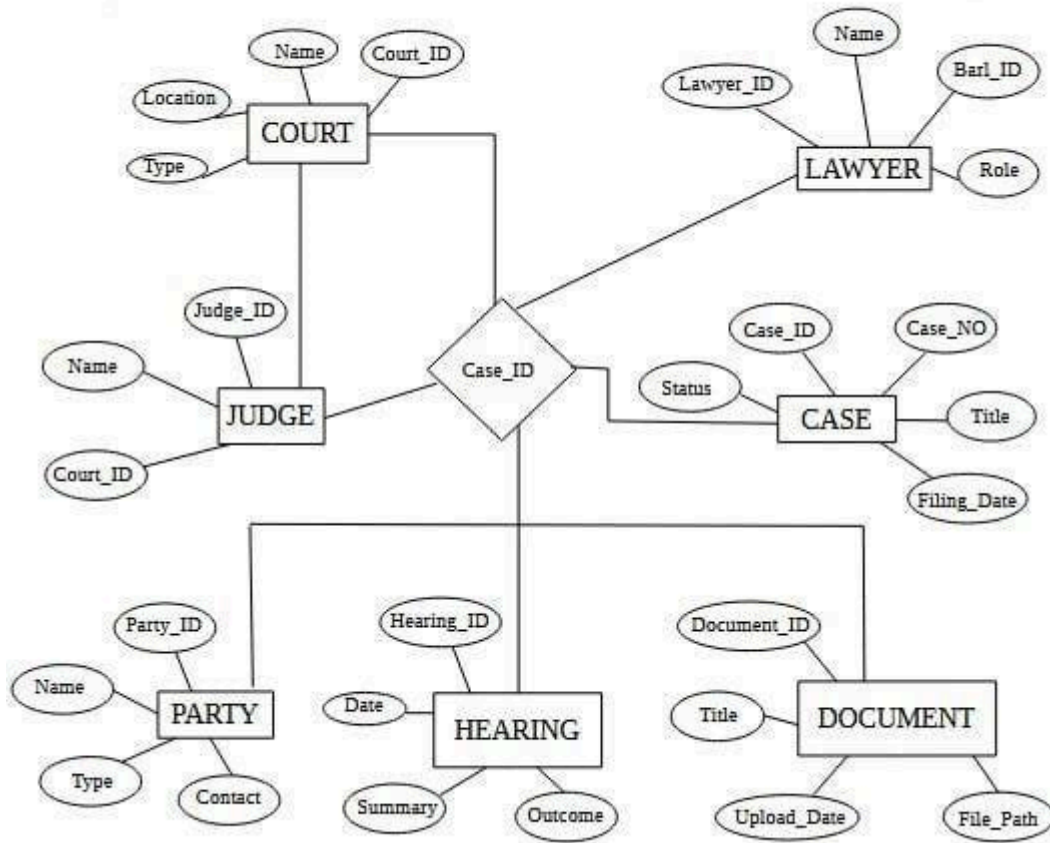

TABLE NAME:CASE

COLUMN NAME	DATA TYPE	INDEX	DESCRIPTION
CASE_ID	INT	PRIMARY KEY	Unique identifier for case
TITLE	VARCHAR		Case Title
CASE_TYPE	VARCHAR		Type of the case(Civil, Criminal, Family, etc.)
FILING_DATE	DATE		Date when the case was filed
COURT_ID	INT	FOREIGN KEY	References **Court(Court_ID)**
JUDGE_ID	INT	FOREIGN KEY	References **Judge(Judge_ID)**

TABLE NAME:COURT

COLUMN NAME	DATA TYPE	INDEX	DESCRIPTION
COURT_ID	INT	PRIMARY KEY	Unique identifier for each court
COURT_NAME	VARCHAR		Name of the court
LOCATION	VARCHAR		Location of the court
TYPE	VARCHAR		Type of the court
CASE_ID	INT	FOREIGN KEY	References **Case(Case_ID)**

TABLE NAME: JUDGE

COLUMN NAME	DATA TYPE	INDEX	DESCRIPTION
JUDGE_ID	INT	PRIMARY KEY	Unique identifier for each judge
JUDGE_NAME	VARCHAR		Name of the court
DESIGNATION	VARCHAR		Designation of judge
COURT_ID	INT	FOREIGN KEY	References **Judge(Judge_id)**
CASE_ID	INT	FOREIGN KEY	References **Case(Case_id)**

TABLE NAME: LAWYER

COLUMN NAME	DATA TYPE	INDEX	DESCRIPTION
LAWYER_ID	INT	PRIMARY KEY	Unique identifier for each lawyer
LAWYER_NAME	VARCHAR		Name of the lawyer
SPECIALIZATION	VARCHAR		Area of specialization (Criminal, Civil, etc.)
CONTACT_INFO	VARCHAR		Email/phone contact
CASE_ID	INT	FOREIGN KEY	References **Case(Case_ID)**

TABLE NAME:PARTY

COLUMN NAME	DATA TYPE	INDEX	DESCRIPTION
PARTY_ID	INT	PRIMARY KEY	Unique identifier for each party
PARTY_NAME	VARCHAR		Name of the party
ROLE	VARCHAR		Role of the party in the case
LAWYER_ID	INT	FOREIGN KEY	References **Lawyer(Lawyer_ID)**
CASE_ID	INT	FOREIGN KEY	References **Case(Case_ID)**

TABLE NAME : HEARING;

COLUMN NAME	DATA TYPE	INDEX	DESCRIPTION
HEARING_ID	INT	PRIMARY KEY	Unique identifier for each hearing
HEARING_DATE	DATE		Date of hearing
DESCRIPTION	VARCHER		Detailed description of proceedings during the hearing
OUTCOME	VARCHER		Result/decision of the hearing (e.g., Adjourned, Evidence Accepted, Judgment Reserved)
CASE_ID	INT	FOREIGN KEY	References Case(Case_ID)

TABLE NAME: DOCUMENT

COLUMN NAME	DATA TYPE	INDEX	DESCRIPTION
DOCUMENT_ID	INT	PRIMARY KEY	Unique identifier for each document
DOCUMENT_NAME	VARCHAR		Name of the document
DOCUMENT_TYPE	VARCHAR		Type of document (FIR, Petition, Evidence, etc.)
SUBMISSION_DATE	DATE		Date document was submitted
CASE_ID	INT	FOREIGN KEY	References Case(Case_ID)

Table Creation and Insertion:-

```sql
CREATE TABLE Case ( Case_ID INT PRIMARY KEY, Title VARCHAR(200), Case_Type
VARCHAR(50), Filing_Date DATE, Court_ID INT, Judge_ID INT);
```

Table created.


```sql
INSERT INTO Case VALUES (301, 'Rajiv vs State of Tamil Nadu', 'Criminal', '10-jan-2020',
201, 401);
```

1 row created.

```sql
INSERT INTO Case VALUES(302, 'Priya vs ABC Corporation', 'Civil', '21-FEB-2021', 202,
402);
```

1 row created.

```sql
INSERT INTO Case VALUES(303, 'State of Maharashtra vs Suresh', 'Criminal',
'18-MAR-2021', 203, 403);
```

1 row created.

```sql
INSERT INTO Case VALUES(304, 'Sunil vs Anjali', 'Family', '05-APR-2022', 204, 404);
```

1 row created.

```sql
INSERT INTO Case VALUES(305, 'Bharat Traders vs Esha Ltd', 'Commercial',
'20-MAY-2022', 205, 405);
```

1 row created.

```sql
INSERT INTO Case VALUES(306, 'Meena vs Sun Pharma', 'Labor', '11-JUN-2023', 206,
406);
```

1 row created.

```sql
INSERT INTO Case VALUES(307, 'Ali vs Fatima', 'Divorce', '01-JUL-2023', 207, 407);
```

1 row created.

```sql
INSERT INTO Case VALUES(308, 'XYZ Ltd vs Tax Dept.', 'Tax', '15-AUG-2024', 208, 408);
```

1 row created.

```sql
INSERT INTO Case VALUES(309, 'State of Odisha vs Ramesh', 'Criminal', '07-SEP-2024',
209, 409);
```

1 row created.

INSERT INTO Case VALUES(310, 'Kumar vs Kanchalna', 'Family', '22-OCT-2025', 210, 410);

1 row created.

CREATE TABLE Court (Court_ID INT PRIMARY KEY, Court_Name VARCHAR(100), Location VARCHAR(100),Type VARCHAR(50),Case_ID INT);

Table created.

INSERT INTO Court VALUES (201, 'Madras High Court', 'Chennai', 'High Court', 301);

1 row created.

INSERT INTO Court VALUES (202, 'Chennai Civil Court', 'Chennai', 'Civil Court', 302);

1 row created.

INSERT INTO Court VALUES (203, 'Mumbai Sessions Court', 'Mumbai', 'Sessions Court', 303);

1 row created.

INSERT INTO Court VALUES (204, 'Delhi Family Court', 'Delhi', 'Family Court', 304);

1 row created.

INSERT INTO Court VALUES (205, 'Ahmedabad Commercial Court', 'Ahmedabad', 'Commercial Court', 305);

1 row created.

INSERT INTO Court VALUES (206, 'Pune Labor Court', 'Pune', 'Labor Court', 306);

1 row created.

INSERT INTO Court VALUES (207, 'Hyderabad Family Court', 'Hyderabad', 'Family Court', 307);

1 row created.

INSERT INTO Court VALUES (208, 'Kolkata Tax Court', 'Kolkata', 'Tax Court', 308);

1 row created.

INSERT INTO Court VALUES (209, 'Bhubaneswar Criminal Court', 'Bhubaneswar', 'Criminal Court', 309);

1 row created.

INSERT INTO Court VALUES (210, 'Coimbatore Family Court', 'Coimbatore', 'Family Court', 310);

1 row created.

CREATE TABLE Judge (Judge_ID INT PRIMARY KEY,Judge_Name VARCHAR(100),Designation VARCHAR(50),Court_ID INT,Case_ID INT);

Table created.

INSERT INTO Judge VALUES (401, 'Justice R. Subramanian', 'High Court Judge', 201, 301);

1 row created.

INSERT INTO Judge VALUES (402, 'Justice Priya Menon', 'Civil Judge', 202, 302);

1 row created.

INSERT INTO Judge VALUES (403, 'Justice Dinesh Patil', 'Sessions Judge', 203, 303);

1 row created.

INSERT INTO Judge VALUES (404, 'Justice Anita Sharma', 'Family Judge', 204, 304);

1 row created.

INSERT INTO Judge VALUES (405, 'Justice K. Suresh', 'Commercial Judge', 205, 305);

1 row created.

INSERT INTO Judge VALUES (406, 'Justice Ramesh Iyer', 'Labor Judge', 206, 306);

1 row created.

INSERT INTO Judge VALUES (407, 'Justice Leela Devi', 'Family Judge', 207, 307);

1 row created.

INSERT INTO Judge VALUES (408, 'Justice Aslam Khan', 'Tax Judge', 208, 308);

1 row created.

INSERT INTO Judge VALUES (409, 'Justice Binod Das', 'Criminal Judge', 209, 309);

1 row created.

INSERT INTO Judge VALUES (410, 'Justice Kanchana Rao', 'Family Judge', 210, 310);

1 row created.

CREATE TABLE Lawyer (Lawyer_ID INT PRIMARY KEY,Lawyer_Name VARCHAR(100), Specialization VARCHAR(100), Contact_Info VARCHAR(100), Case_ID INT);

Table created.

INSERT INTO Lawyer VALUES (501, 'Adv. Arjun Mehta', 'Criminal Law', 'arjunmehta@gmail.com', 301);

1 row created.

INSERT INTO Lawyer VALUES (502, 'Adv. Sneha Nair', 'Civil Litigation', 'snehanair@lawfirm.com', 302);

1 row created.

INSERT INTO Lawyer VALUES (503, 'Adv. Ravi Deshmukh', 'Criminal Law', 'ravideshmukh@courtmail.com', 303);

1 row created.

INSERT INTO Lawyer VALUES (504, 'Adv. Neha Kapoor', 'Family Law', 'nehakapoor@lawchambers.com', 304);

1 row created.

INSERT INTO Lawyer VALUES (505, 'Adv. Rohit Jain', 'Commercial Law', 'rohitjain@firm.co.in', 305);

1 row created.

INSERT INTO Lawyer VALUES (506, 'Adv. Deepika Rao', 'Labor Law', 'deepikarao@legal.org', 306);

1 row created.

INSERT INTO Lawyer VALUES (507, 'Adv. Imran Siddiqui', 'Family Law', 'imransiddiqui@law.co', 307);

1 row created.

INSERT INTO Lawyer VALUES (508, 'Adv. Swati Joshi', 'Tax Law', 'swatijoshi@taxfirm.com', 308);

1 row created.

INSERT INTO Lawyer VALUES (509, 'Adv. Raghav Patnaik', 'Criminal Law', 'raghavp@justice.org', 309);

1 row created.

INSERT INTO Lawyer VALUES (510, 'Adv. Kiran Bedi', 'Family Law', 'kiranbedi@familylaw.in', 310);

1 row created.

CREATE TABLE Party (Party_ID INT PRIMARY KEY,Party_Name VARCHAR(100), Role VARCHAR(50),Lawyer_ID INT,Case_ID INT);

Table create

INSERT INTO Party VALUES (601, 'Rajiv', 'Plaintiff', 501, 301);

1 row created.

INSERT INTO Party VALUES (602, 'State of Tamil Nadu', 'Defendant', 501, 301);

1 row created.

INSERT INTO Party VALUES (603, 'Priya', 'Plaintiff', 502, 302);

1 row created.

INSERT INTO Party VALUES (604, 'ABC Corporation', 'Defendant', 502, 302);

1 row created.

INSERT INTO Party VALUES (605, 'Sunil', 'Petitioner', 504, 304);

1 row created.

INSERT INTO Party VALUES (606, 'Anjali', 'Respondent', 504, 304);

1 row created.

INSERT INTO Party VALUES (607, 'Ali', 'Petitioner', 507, 307);

1 row created.

INSERT INTO Party VALUES (608, 'Fatima', 'Respondent', 507, 307);

1 row created.

INSERT INTO Party VALUES (609, 'Kumar', 'Petitioner', 510, 310);

1 row created.

INSERT INTO Party VALUES (610, 'Kanchana', 'Respondent', 510, 310);

1 row created.

CREATE TABLE Hearing (Hearing_ID INT PRIMARY KEY, Hearing_Date DATE, Description VARCHAR2(200), Outcome VARCHAR(200), Case_ID INT);

Table created.

INSERT INTO Hearing VALUES (701, TO_DATE('15-JAN-2020', 'DD-MON-YYYY'), 'First hearing - charges framed', 'Adjourned', 301);

1 row created.

INSERT INTO Hearing VALUES (702, TO_DATE('20-FEB-2021', 'DD-MON-YYYY'), 'Initial arguments presented', 'Pending', 302);

1 row created.

INSERT INTO Hearing VALUES (703, TO_DATE('25-MAR-2021', 'DD-MON-YYYY'), 'Witness statements recorded', 'In Progress', 303);

1 row created.

INSERT INTO Hearing VALUES (704, TO_DATE('10-APR-2022', 'DD-MON-YYYY'), 'Counseling session', 'Reconciliation Failed', 304);

1 row created.

INSERT INTO Hearing VALUES (705, TO_DATE('18-MAY-2022', 'DD-MON-YYYY'), 'Cross-examination', 'Ongoing', 305);

1 row created.

INSERT INTO Hearing VALUES (706, TO_DATE('15-JUN-2023', 'DD-MON-YYYY'), 'Labor dispute negotiation', 'Partial Settlement', 306);

1 row created.

INSERT INTO Hearing VALUES (707, TO_DATE('05-JUL-2023', 'DD-MON-YYYY'), 'Final arguments heard', 'Reserved for Judgment', 307);

1 row created.

INSERT INTO Hearing VALUES (708, TO_DATE('20-AUG-2024', 'DD-MON-YYYY'), 'Tax documents reviewed', 'Further Hearing Scheduled', 308);

1 row created.

INSERT INTO Hearing VALUES (709, TO_DATE('12-SEP-2024', 'DD-MON-YYYY'), 'Evidence submitted by prosecution', 'Adjourned', 309);

1 row created.

INSERT INTO Hearing VALUES (710, TO_DATE('30-OCT-2025', 'DD-MON-YYYY'), 'Final order pronounced', 'Judgment Passed', 310);

1 row created.

CREATE TABLE Document (Document_ID INT PRIMARY KEY, Document_Name VARCHAR(100), Document_Type VARCHAR(50), Submission_Date DATE, Case_ID INT);

Table created.

INSERT INTO Document VALUES (801, 'FIR Report', 'Evidence', TO_DATE('12-JAN-2020', 'DD-MON-YYYY'), 301);

1 row created.

INSERT INTO Document VALUES (802, 'Contract Agreement', 'Legal', TO_DATE('22-FEB-2021', 'DD-MON-YYYY'), 302);

1 row created.

INSERT INTO Document VALUES (803, 'Witness Statement', 'Evidence', TO_DATE('26-MAR-2021', 'DD-MON-YYYY'), 303);

1 row created.

INSERT INTO Document VALUES (804, 'Marriage Certificate', 'Personal', TO_DATE('12-APR-2022', 'DD-MON-YYYY'), 304);

1 row created.

INSERT INTO Document VALUES (805, 'Business License', 'Commercial', TO_DATE('20-MAY-2022', 'DD-MON-YYYY'), 305);

1 row created.

INSERT INTO Document VALUES (806, 'Employment Record', 'Labor', TO_DATE('17-JUN-2023', 'DD-MON-YYYY'), 306);

1 row created.

INSERT INTO Document VALUES (807, 'Divorce Petition', 'Legal', TO_DATE('07-JUL-2023', 'DD-MON-YYYY'), 307);

1 row created.

INSERT INTO Document VALUES (808, 'Audit Report', 'Financial', TO_DATE('23-AUG-2024', 'DD-MON-YYYY'), 308);

1 row created.

INSERT INTO Document VALUES (809, 'Forensic Report', 'Evidence', TO_DATE('14-SEP-2024', 'DD-MON-YYYY'), 309);

1 row created.

INSERT INTO Document VALUES (810, 'Custody Agreement', 'Family', TO_DATE('01-NOV-2025', 'DD-MON-YYYY'), 310);

CONSTRAINTS COMMANDS:-

Add FOREIGN KEY:
SQL>ALTER TABLE Case ADD CONSTRAINT fk_case_court FOREIGN KEY (Court_ID) REFERENCES Court(Court_ID);

TABLE ALTERED

SQL>ALTER TABLE Case ADD CONSTRAINT fk_case_judge FOREIGN KEY (Judge_ID) REFERENCES Judge(Judge_ID);

TABLE ALTERED

SQL>ALTER TABLE Court ADD CONSTRAINT fk_court_case FOREIGN KEY (Case_ID) REFERENCES Case(Case_ID);

TABLE ALTERED

SQL>ALTER TABLE Judge ADD CONSTRAINT fk_judge_court FOREIGN KEY (Court_ID) REFERENCES Court(Court_ID);

TABLE ALTERED

SQL>ALTER TABLE Judge ADD CONSTRAINT fk_judge_case FOREIGN KEY (Case_ID) REFERENCES Case(Case_ID);

TABLE ALTERED

SQL>ALTER TABLE Lawyer ADD CONSTRAINT fk_lawyer_case FOREIGN KEY (Case_ID) REFERENCES Case(Case_ID);

TABLE ALTERED

SQL>ALTER TABLE Party ADD CONSTRAINT fk_party_lawyer FOREIGN KEY (Lawyer_ID) REFERENCES Lawyer(Lawyer_ID);

TABLE ALTERED

SQL>ALTER TABLE Party ADD CONSTRAINT fk_party_case FOREIGN KEY (Case_ID) REFERENCES Case(Case_ID);

TABLE ALTERED

SQL>ALTER TABLE Hearing ADD CONSTRAINT fk_hearing_case FOREIGN KEY (Case_ID) REFERENCES Case(Case_ID);

TABLE ALTERED

SQL>ALTER TABLE Document ADD CONSTRAINT fk_document_case FOREIGN KEY (Case_ID) REFERENCES Case(Case_ID);

TABLE ALTERED

NOT NULL:
SQL>ALTER TABLE Judge MODIFY Judge_Name VARCHAR(100) NOT NULL;

TABLE ALTERED

UNIQUE:

SQL>ALTER TABLE Lawyer ADD CONSTRAINT unique_contact UNIQUE (Contact_Info);

TABLE ALTERED

CHECK:

SQL>ALTER TABLE Case ADD CONSTRAINT chk_case_type CHECK (Case_Type IN ('Civil', 'Criminal', 'Family', 'Labor', 'Tax', 'Commercial', 'Divorce'));

TABLE ALTERED

TCL COMMAND:-
SQL>COMMIT;

DDL COMMANDS:-

Add a New Column to a Table

SQL>ALTER TABLE Lawyer ADD Bar_Registration_No VARCHAR(20);

TABLE ALTERED

Rename an Existing Column

SQL>ALTER TABLE Case RENAME COLUMN Case_Type TO Case_Category;

TABLE ALTERED

Modify a Column Data Type

SQL>ALTER TABLE Court MODIFY Location VARCHAR(150);

TABLE ALTERED

Set a Default Value for a Column

SQL>ALTER TABLE Judge MODIFY Designation VARCHAR(50) DEFAULT 'Judge';

TABLE ALTERED

Drop a Column from a Table

SQL>ALTER TABLE Party DROP COLUMN Role;

TABLE DROPPED

Drop a Table

SQL>DROP TABLE Hearing;

TABLE DROPPED

Rename a Table

SQL>RENAME Document TO Case_Documents;
Table renamed.

Truncate Table
SQL>TRUNCATE Table Court;

Table truncated.

DML COMMANDS:-

Change judge designation

SQL>UPDATE Judge SET Designation = 'Senior Civil Judge'
WHERE Judge_ID = 402;

1 row updated.

Update hearing outcome
SQL>UPDATE Hearing SET Outcome = 'Judgment Reserved'
WHERE Hearing_ID = 702;
1 row updated.

Correct case title
SQL>UPDATE Case SET Title = 'Priya vs ABC Ltd' WHERE
Case_ID = 302;
1 row updated.

Change court location

SQL>UPDATE Court SET Location = 'New Chennai' WHERE Court_ID = 202;
1 row updated.

Delete a document

 SQL>DELETE FROM CASE_DOCUMENTS WHERE Document_ID = 810;
1 row deleted.

View all judges
SQL>SELECT * FROM Judge;

```
JUDGE_ID JUDGE_NAME              DESIGNATION        COURT_ID CASE_ID
-------- ------------------------ ------------------- -------- -------
   401 Justice R. Subramanian    High Court Judge        201   301
   402 Justice Priya Menon       Senior Civil Judge      202   302
   403 Justice Dinesh Patil      Sessions Judge          203   303
   404 Justice Anita Sharma      Family Judge            204   304
   405 Justice K. Suresh         Commercial Judge        205   305
   406 Justice Ramesh Iyer       Labor Judge             206   306
   407 Justice Leela Devi        Family Judge            207   307
   408 Justice Aslam Khan        Tax Judge               208   308
   409 Justice Binod Das         Criminal Judge          209   309
   410 Justice Kanchana Rao      Family Judge            210   310
```

10 rows selected.

View case details of 'Criminal' type
SQL>SELECT * FROM Case WHERE Case_Category= 'Criminal';

```
CASE_ID TITLE                      CASE_CATEGORY    FILING_DATE  COURT_ID
------- -------------------------------- --------------- ------------ --------
```

```
JUDGE_ID
--------
    301 Rajiv vs State of Tamil Nadu    Criminal        10-JAN-20
201
     401

    303 State of Maharashtra vs Suresh Criminal        18-MAR-21
203
     403

    309 State of Odisha vs Ramesh      Criminal        07-SEP-24
209
     409
```

AGGREGATE FUNCTIONS AND SORTING:-

 1. **COUNT** – Total Number of Cases
SQL> SELECT COUNT(*) AS Total_Cases FROM Case;

```
TOTAL_CASES
-----------
         10
```

2. **MIN / MAX** – Earliest and Latest Case Filing Dates

SQL>SELECT MIN(Filing_Date) AS
Earliest_Case,MAX(Filing_Date) AS Latest_Case FROM Case;

```
EARLIEST_   LATEST_CA
---------       ---------
10-JAN-20    22-OCT-25
```

3.ORDER BY – List Lawyers Alphabetically

SQL> SELECT Lawyer_ID, Lawyer_Name, Specialization FROM Lawyer ORDER BY Lawyer_Name ASC;

```
LAWYER_ID LAWYER_NAME          SPECIALIZATION
--------- ------------------- -------------------
      501 Adv. Arjun Mehta     Criminal Law
      506 Adv. Deepika Rao     Labor Law
      507 Adv. Imran Siddiqui  Family Law
      510 Adv. Kiran Bedi      Family Law
      504 Adv. Neha Kapoor     Family Law
      509 Adv. Raghav Patnaik  Criminal Law
      503 Adv. Ravi Deshmukh   Criminal Law
      505 Adv. Rohit Jain      Commercial Law
      502 Adv. Sneha Nair      Civil Litigation
      508 Adv. Swati Joshi     Tax Law
```

10 rows selected.

4. SUM/COUNT + GROUP BY – Total Hearings per Case

SQL> SELECT Case_ID, COUNT(*) AS Total_Hearings FROM Hearing GROUP BY Case_ID ORDER BY Total_Hearings DESC;

```
CASE_ID TOTAL_HEARINGS
------- --------------
    301              1
    302              1
    303              1
    304              1
    310              1
    306              1
```

307	1
308	1
309	1
305	1

10 rows selected.

5.AVG of Case_IDs by Category

SQL> SELECT Case_Category, AVG(Case_ID) AS Avg_CaseID FROM Case GROUP BY Case_Category;

CASE_CATEGORY	AVG_CASEID
Criminal	304.333333
Civil	302
Family	307
Commercial	305
Labor	306
Divorce	307
Tax	308

7 rows selected.

6.DESCRIBE THE TABLE STRUCTURE
SQL>DESC JUDGE;

Name	Null?	Type
JUDGE_ID	NOT NULL	NUMBER(38)
JUDGE_NAME	NOT NULL	VARCHAR2(100)

```
 DESIGNATION                      VARCHAR2(50)
 COURT_ID                         NUMBER(38)
 CASE_ID                          NUMBER(38)
```

7.COUNT - Total number of cases
```
SQL>SELECT COUNT(CASE_ID) "TOTAL CASES" FROM
CASE;
TOTAL CASES
----------
        10
```

8.Absolute Value
```
SQL>SELECT ABS(20) "ABSOLUTE VALUE" FROM DUAL;

ABSOLUTE VALUE
--------------
        20
```

9.ROUND
```
SQL>SELECT round (2678.96) "round" FROM Dual ;
    round
---------
    2679
```

10.POWER
```
SQL>SELECT power (3,2) "power" FROM Dual ;

  power
----------
        9
```

11.SQUARE ROOT

SQL> SELECT sqrt (25) "square root" FROM Dual ;

square root

         5

12.EXPONENT
 SQL>SELECT exp (5) "exponent" FROM Dual ;

  exponent

148.413159

13.GREATEST
SQL> SELECT greatest (45643,10458739,235870) "number"
FROM Dual ;

    number

  10458739

14.LEAST
SQL>SELECT least (45643,10458739,235870) "number"
FROM Dual ;

  number

  45643
15.MODULOUS
SQL>SELECT mod (15,8) "number" FROM Dual ;
   number

         7

16.TRUNC

```
SQL>SELECT trunc (138.356,1) "number" FROM Dual ;
   number

---------
    138.3
```

17.FLOOR

```
SQL>SELECT floor (28.6) "number" FROM Dual ;
   number

---------
    28
```

18.CEIL

```
SQL>SELECT ceil (38.6) "number" FROM Dual ;
   number

---------
    39
```

19.LOWERCASE

```
SQL> SELECT LOWER(JUDGE_NAME) FROM JUDGE;

LOWER(JUDGE_NAME)
--------------------------------------------------------------------------
justice r. subramanian
justice priya menon
justice dinesh patil
justice anita sharma
justice k. suresh
justice ramesh iyer
justice leela devi
justice aslam khan
justice binod das
```

justice kanchana rao

10 rows selected.

20.INITCAP
SQL> SELECT INITCAP(JUDGE_NAME) FROM JUDGE;

INITCAP(JUDGE_NAME)

Justice R. Subramanian
Justice Priya Menon
Justice Dinesh Patil
Justice Anita Sharma
Justice K. Suresh
Justice Ramesh Iyer
Justice Leela Devi
Justice Aslam Khan
Justice Binod Das
Justice Kanchana Rao

10 rows selected.

21.UPPERCASE
SQL> SELECT UPPER(JUDGE_NAME) FROM JUDGE;

UPPER(JUDGE_NAME)

JUSTICE R. SUBRAMANIAN
JUSTICE PRIYA MENON
JUSTICE DINESH PATIL
JUSTICE ANITA SHARMA
JUSTICE K. SURESH
JUSTICE RAMESH IYER

JUSTICE LEELA DEVI
JUSTICE ASLAM KHAN
JUSTICE BINOD DAS
JUSTICE KANCHANA RAO

10 rows selected.

22.ASCII
SQL> SELECT ascii ('a') FROM Dual ;

```
ASCII('A')
----------
        97
```

23.LENGTH
SQL> SELECT LENGTH('LOCATION') FROM DUAL;

```
LENGTH('LOCATION')
------------------
                 8
```

24.LTRIM
SQL> SELECT ltrim ('table name','d') FROM Dual ;

```
LTRIM
----------
table name
```

25.RTRIM
SQL> SELECT rtrim ('table name','a') FROM Dual ;

```
RTRIM
----------
table name
```

SET OPERATORS:-

UNION:
SQL>SELECT Title FROM Case WHERE Case_Category = 'Criminal' UNION SELECT Title FROM Case WHERE Case_Category = 'Family';

TITLE

Rajiv vs State of Tamil Nadu
State of Maharashtra vs Suresh
State of Odisha vs Ramesh
Sunil vs Anjali
Kumar vs Kanchana

UNION ALL:
SQL>SELECT Case_Category FROM Case UNION ALL SELECT Document_Type FROM Case_Documents;

CASE_CATEGORY

Criminal
Civil
Criminal
Family
Commercial
Labor
Divorce
Tax
Criminal
Family
Evidence

CASE_CATEGORY

Legal
Evidence
Personal
Commercial
Labor
Legal
Financial
Evidence
19 rows selected.

INTERSECT:

SQL>SELECT Case_Category FROM Case INTERSECT SELECT Document_Type FROM Case_Documents;

CASE_CATEGORY

Commercial
Labor

JOINS:-

1. INNER JOIN: List all case titles with their court names and judges

SELECT c.Case_ID, c.Title, ct.Court_Name, j.Judge_Name FROM Case c INNER JOIN Court ct ON c.Court_ID = ct.Court_ID INNER JOIN Judge j ON c.Judge_ID = j.Judge_ID;

```
  CASE_ID
----------
TITLE
-------------------------------------------------------------------------
COURT_NAME
-------------------------------------------------------------------------
JUDGE_NAME
-------------------------------------------------------------------------
      301
Rajiv vs State of Tamil Nadu
Madras High Court
Justice R. Subramanian


  CASE_ID
----------
TITLE
-------------------------------------------------------------------------
COURT_NAME
-------------------------------------------------------------------------
JUDGE_NAME
-------------------------------------------------------------------------
      302
Priya vs ABC Corporation
Chennai Civil Court
Justice Priya Menon


  CASE_ID
----------
```

TITLE

COURT_NAME

JUDGE_NAME

       303
State of Maharashtra vs Suresh
Mumbai Sessions Court
Justice Dinesh Patil

    CASE_ID

TITLE

COURT_NAME

JUDGE_NAME

       304
Sunil vs Anjali
Delhi Family Court
Justice Anita Sharma

    CASE_ID

TITLE

COURT_NAME

JUDGE_NAME

       305
Bharat Traders vs Esha Ltd
Ahmedabad Commercial Court
Justice K. Suresh

    CASE_ID

TITLE

COURT_NAME

JUDGE_NAME

```
       306
Meena vs Sun Pharma
Pune Labor Court
Justice Ramesh Iyer


    CASE_ID
----------
TITLE
--------------------------------------------------------------------------
COURT_NAME
--------------------------------------------------------------------------
JUDGE_NAME
--------------------------------------------------------------------------
       307
Ali vs Fatima
Hyderabad Family Court
Justice Leela Devi


    CASE_ID
----------
TITLE
--------------------------------------------------------------------------
COURT_NAME
--------------------------------------------------------------------------
JUDGE_NAME
--------------------------------------------------------------------------
       308
XYZ Ltd vs Tax Dept.
Kolkata Tax Court
Justice Aslam Khan


    CASE_ID
----------
TITLE
--------------------------------------------------------------------------
COURT_NAME
--------------------------------------------------------------------------
JUDGE_NAME
--------------------------------------------------------------------------
       309
State of Odisha vs Ramesh
Bhubaneswar Criminal Court
Justice Binod Das
```

```
   CASE_ID
----------
TITLE
-------------------------------------------------------------------------------
COURT_NAME
-------------------------------------------------------------------------------
JUDGE_NAME
-------------------------------------------------------------------------------
      310
Kumar vs Kanchana
Coimbatore Family Court
Justice Kanchana Rao


10 rows selected.
```

2. LEFT JOIN:

SQL>SELECT Case.Case_ID, Case.Title, Judge.Judge_Name, Judge.Designation FROM Case LEFT JOIN Judge ON Case.Judge_ID = Judge.Judge_ID;

```
CASE_ID TITLE                        JUDGE_NAME
------- ---------------------------- ------------------------
DESIGNATION
--------------------
    301 Rajiv vs State of Tamil Nadu   Justice R. Subramanian
High Court Judge

    302 Priya vs ABC Corporation      Justice Priya Menon
Senior Civil Judge

    303 State of Maharashtra vs Suresh Justice Dinesh Patil
Sessions Judge


CASE_ID TITLE                        JUDGE_NAME
------- ---------------------------- ------------------------
DESIGNATION
--------------------
    304 Sunil vs Anjali               Justice Anita Sharma
Family Judge

    305 Bharat Traders vs Esha Ltd    Justice K. Suresh
Commercial Judge

    306 Meena vs Sun Pharma           Justice Ramesh Iyer
Labor Judge
```

```
CASE_ID TITLE                    JUDGE_NAME
------- ---------------------------- ------------------------
DESIGNATION
--------------------
    307 Ali vs Fatima            Justice Leela Devi
Family Judge

    308 XYZ Ltd vs Tax Dept.     Justice Aslam Khan
Tax Judge

    309 State of Odisha vs Ramesh    Justice Binod Das
Criminal Judge


CASE_ID TITLE                    JUDGE_NAME
------- ---------------------------- ------------------------
DESIGNATION
--------------------
    310 Kumar vs Kanchana        Justice Kanchana Rao
Family Judge


10 rows selected.
```

3. RIGHT JOIN:

SQL>SELECT l.Lawyer_Name, l.Specialization, c.Title FROM Lawyer l RIGHT JOIN Case c ON l.Case_ID = c.Case_ID;

```
LAWYER_NAME          SPECIALIZATION       TITLE
-------------------- -------------------- -----------------------------
Adv. Arjun Mehta     Criminal Law         Rajiv vs State of Tamil Nadu
Adv. Sneha Nair      Civil Litigation     Priya vs ABC Corporation
Adv. Ravi Deshmukh   Criminal Law         State of Maharashtra vs Suresh
Adv. Neha Kapoor     Family Law           Sunil vs Anjali
Adv. Rohit Jain      Commercial Law       Bharat Traders vs Esha Ltd
Adv. Deepika Rao     Labor Law            Meena vs Sun Pharma
Adv. Imran Siddiqui  Family Law           Ali vs Fatima
Adv. Swati Joshi     Tax Law              XYZ Ltd vs Tax Dept.
Adv. Raghav Patnaik  Criminal Law         State of Odisha vs Ramesh
Adv. Kiran Bedi      Family Law           Kumar vs Kanchana

10 rows selected.
```

4. FULL OUTER JOIN:

SQL> SELECT Case.Case_ID, Case.Title, Hearing.Hearing_Date, Hearing.Outcome FROM Case FULL OUTER JOIN Hearing ON Case.Case_ID = Hearing.Case_ID;

```
CASE_ID TITLE                     HEARING_DATE
------- ---------------------------- ------------
OUTCOME
--------------------------------------------------------------------------
    301 Rajiv vs State of Tamil Nadu   15-JAN-20
Adjourned

    302 Priya vs ABC Corporation       20-FEB-21
Judgment Reserved

    303 State of Maharashtra vs Suresh 25-MAR-21
In Progress


CASE_ID TITLE                     HEARING_DATE
------- ---------------------------- ------------
OUTCOME
--------------------------------------------------------------------------
    304 Sunil vs Anjali               10-APR-22
Reconciliation Failed

    305 Bharat Traders vs Esha Ltd    18-MAY-22
Ongoing

    306 Meena vs Sun Pharma           15-JUN-23
Partial Settlement


CASE_ID TITLE                     HEARING_DATE
------- ---------------------------- ------------
OUTCOME
--------------------------------------------------------------------------
    307 Ali vs Fatima                 05-JUL-23
Reserved for Judgment

    308 XYZ Ltd vs Tax Dept.          20-AUG-24
Further Hearing Scheduled

    309 State of Odisha vs Ramesh     12-SEP-24
Adjourned


CASE_ID TITLE                     HEARING_DATE
------- ---------------------------- ------------
```

OUTCOME
----
    310 Kumar vs Kanchana   30-OCT-25
Judgment Passed

10 rows selected.

5. SELF JOIN: Find pairs of cases handled by the same judge

SELECT c1.Case_ID AS Case1, c2.Case_ID AS Case2, j.Judge_Name FROM Case c1
JOIN Case c2 ON c1.Judge_ID = c2.Judge_ID AND c1.Case_ID < c2.Case_ID JOIN Judge j
ON c1.Judge_ID = j.Judge_ID;

NO ROWS SELECTED.

6. CROSS JOIN: All combinations of lawyers and judges

SQL>SELECT l.Lawyer_Name, j.Judge_Name FROM Lawyer l CROSS JOIN Judge j;

LAWYER_NAME	JUDGE_NAME
Adv. Arjun Mehta	Justice R. Subramanian
Adv. Arjun Mehta	Justice Priya Menon
Adv. Arjun Mehta	Justice Dinesh Patil
Adv. Arjun Mehta	Justice Anita Sharma
Adv. Arjun Mehta	Justice K. Suresh
Adv. Arjun Mehta	Justice Ramesh Iyer
Adv. Arjun Mehta	Justice Leela Devi
Adv. Arjun Mehta	Justice Aslam Khan
Adv. Arjun Mehta	Justice Binod Das
Adv. Arjun Mehta	Justice Kanchana Rao
Adv. Sneha Nair	Justice R. Subramanian

LAWYER_NAME	JUDGE_NAME
Adv. Sneha Nair	Justice Priya Menon
Adv. Sneha Nair	Justice Dinesh Patil
Adv. Sneha Nair	Justice Anita Sharma
Adv. Sneha Nair	Justice K. Suresh
Adv. Sneha Nair	Justice Ramesh Iyer
Adv. Sneha Nair	Justice Leela Devi
Adv. Sneha Nair	Justice Aslam Khan
Adv. Sneha Nair	Justice Binod Das
Adv. Sneha Nair	Justice Kanchana Rao
Adv. Ravi Deshmukh	Justice R. Subramanian

```
Adv. Ravi Deshmukh   Justice Priya Menon

LAWYER_NAME          JUDGE_NAME
-------------------- ------------------------
Adv. Ravi Deshmukh   Justice Dinesh Patil
Adv. Ravi Deshmukh   Justice Anita Sharma
Adv. Ravi Deshmukh   Justice K. Suresh
Adv. Ravi Deshmukh   Justice Ramesh Iyer
Adv. Ravi Deshmukh   Justice Leela Devi
Adv. Ravi Deshmukh   Justice Aslam Khan
Adv. Ravi Deshmukh   Justice Binod Das
Adv. Ravi Deshmukh   Justice Kanchana Rao
Adv. Neha Kapoor     Justice R. Subramanian
Adv. Neha Kapoor     Justice Priya Menon
Adv. Neha Kapoor     Justice Dinesh Patil

LAWYER_NAME          JUDGE_NAME
-------------------- ------------------------
Adv. Neha Kapoor     Justice Anita Sharma
Adv. Neha Kapoor     Justice K. Suresh
Adv. Neha Kapoor     Justice Ramesh Iyer
Adv. Neha Kapoor     Justice Leela Devi
Adv. Neha Kapoor     Justice Aslam Khan
Adv. Neha Kapoor     Justice Binod Das
Adv. Neha Kapoor     Justice Kanchana Rao
Adv. Rohit Jain      Justice R. Subramanian
Adv. Rohit Jain      Justice Priya Menon
Adv. Rohit Jain      Justice Dinesh Patil
Adv. Rohit Jain      Justice Anita Sharma

LAWYER_NAME          JUDGE_NAME
-------------------- ------------------------
Adv. Rohit Jain      Justice K. Suresh
Adv. Rohit Jain      Justice Ramesh Iyer
Adv. Rohit Jain      Justice Leela Devi
Adv. Rohit Jain      Justice Aslam Khan
Adv. Rohit Jain      Justice Binod Das
Adv. Rohit Jain      Justice Kanchana Rao
Adv. Deepika Rao     Justice R. Subramanian
Adv. Deepika Rao     Justice Priya Menon
Adv. Deepika Rao     Justice Dinesh Patil
Adv. Deepika Rao     Justice Anita Sharma
Adv. Deepika Rao     Justice K. Suresh

LAWYER_NAME          JUDGE_NAME
-------------------- ------------------------
Adv. Deepika Rao     Justice Ramesh Iyer
Adv. Deepika Rao     Justice Leela Devi
```

```
Adv. Deepika Rao     Justice Aslam Khan
Adv. Deepika Rao     Justice Binod Das
Adv. Deepika Rao     Justice Kanchana Rao
Adv. Imran Siddiqui  Justice R. Subramanian
Adv. Imran Siddiqui  Justice Priya Menon
Adv. Imran Siddiqui  Justice Dinesh Patil
Adv. Imran Siddiqui  Justice Anita Sharma
Adv. Imran Siddiqui  Justice K. Suresh
Adv. Imran Siddiqui  Justice Ramesh Iyer

LAWYER_NAME         JUDGE_NAME
-------------------- -------------------------
Adv. Imran Siddiqui  Justice Leela Devi
Adv. Imran Siddiqui  Justice Aslam Khan
Adv. Imran Siddiqui  Justice Binod Das
Adv. Imran Siddiqui  Justice Kanchana Rao
Adv. Swati Joshi     Justice R. Subramanian
Adv. Swati Joshi     Justice Priya Menon
Adv. Swati Joshi     Justice Dinesh Patil
Adv. Swati Joshi     Justice Anita Sharma
Adv. Swati Joshi     Justice K. Suresh
Adv. Swati Joshi     Justice Ramesh Iyer
Adv. Swati Joshi     Justice Leela Devi

LAWYER_NAME         JUDGE_NAME
-------------------- -------------------------
Adv. Swati Joshi     Justice Aslam Khan
Adv. Swati Joshi     Justice Binod Das
Adv. Swati Joshi     Justice Kanchana Rao
Adv. Raghav Patnaik  Justice R. Subramanian
Adv. Raghav Patnaik  Justice Priya Menon
Adv. Raghav Patnaik  Justice Dinesh Patil
Adv. Raghav Patnaik  Justice Anita Sharma
Adv. Raghav Patnaik  Justice K. Suresh
Adv. Raghav Patnaik  Justice Ramesh Iyer
Adv. Raghav Patnaik  Justice Leela Devi
Adv. Raghav Patnaik  Justice Aslam Khan

LAWYER_NAME         JUDGE_NAME
-------------------- -------------------------
Adv. Raghav Patnaik  Justice Binod Das
Adv. Raghav Patnaik  Justice Kanchana Rao
Adv. Kiran Bedi      Justice R. Subramanian
Adv. Kiran Bedi      Justice Priya Menon
Adv. Kiran Bedi      Justice Dinesh Patil
Adv. Kiran Bedi      Justice Anita Sharma
Adv. Kiran Bedi      Justice K. Suresh
Adv. Kiran Bedi      Justice Ramesh Iyer
```

```
Adv. Kiran Bedi     Justice Leela Devi
Adv. Kiran Bedi     Justice Aslam Khan
Adv. Kiran Bedi     Justice Binod Das

LAWYER_NAME         JUDGE_NAME
-------------------- -------------------------
Adv. Kiran Bedi     Justice Kanchana Rao

100 rows selected.
```

7. **JOIN with WHERE :**
```
SQL> SELECT Lawyer.Lawyer_Name, Case.Title, Case.Case_Category
FROM Lawyer, Case WHERE Lawyer.Case_ID = Case.Case_ID;

LAWYER_NAME          TITLE                         CASE_CATEGORY
-------------------- ----------------------------- --------------
Adv. Arjun Mehta     Rajiv vs State of Tamil Nadu   Criminal
Adv. Sneha Nair      Priya vs ABC Corporation      Civil
Adv. Ravi Deshmukh   State of Maharashtra vs Suresh Criminal
Adv. Neha Kapoor     Sunil vs Anjali               Family
Adv. Rohit Jain      Bharat Traders vs Esha Ltd    Commercial
Adv. Deepika Rao     Meena vs Sun Pharma           Labor
Adv. Imran Siddiqui  Ali vs Fatima                 Divorce
Adv. Swati Joshi     XYZ Ltd vs Tax Dept.          Tax
Adv. Raghav Patnaik  State of Odisha vs Ramesh     Criminal
Adv. Kiran Bedi      Kumar vs Kanchana             Family

10 rows selected.
```

<u>INTEGRITY CONSTRAINTS:-</u>

```
SQL>SELECT * FROM Case;

CASE_ID TITLE                         CASE_CATEGORY  FILING_DATE COURT_ID
------- ----------------------------- -------------- ----------- --------
JUDGE_ID
--------
    301 Rajiv vs State of Tamil Nadu   Criminal       10-JAN-20         201
     401
```

```
    302 Priya vs ABC Corporation     Civil        21-FEB-21        202
     402

    303 State of Maharashtra vs Suresh Criminal      18-MAR-21        203
     403


CASE_ID TITLE                      CASE_CATEGORY  FILING_DATE COURT_ID
------- ---------------------------- -------------- ------------ --------
JUDGE_ID
--------
    304 Sunil vs Anjali         Family      05-APR-22       204
     404

    305 Bharat Traders vs Esha Ltd   Commercial    20-MAY-22       205
     405

    306 Meena vs Sun Pharma        Labor       11-JUN-23      206
     406


CASE_ID TITLE                      CASE_CATEGORY  FILING_DATE COURT_ID
------- ---------------------------- -------------- ------------ --------
JUDGE_ID
--------
    307 Ali vs Fatima          Divorce      01-JUL-23      207
     407

    308 XYZ Ltd vs Tax Dept.      Tax         15-AUG-24      208
     408

    309 State of Odisha vs Ramesh     Criminal      07-SEP-24      209
     409


CASE_ID TITLE                      CASE_CATEGORY  FILING_DATE COURT_ID
------- ---------------------------- -------------- ------------ --------
JUDGE_ID
--------
    310 Kumar vs Kanchana         Family      22-OCT-25      210
     410


10 rows selected.


SQL>SELECT * FROM Lawyer;
LAWYER_ID LAWYER_NAME      SPECIALIZATION    CONTACT_INFO
```

```
--------- ------------------- ------------------ ------------------------
CASE_ID BAR_REGISTRATION_NO
------- -------------------
    501 Adv. Arjun Mehta    Criminal Law        arjunmehta@gmail.com
  301

    502 Adv. Sneha Nair     Civil Litigation    snehanair@lawfirm.com
  302

    503 Adv. Ravi Deshmukh   Criminal Law       ravideshmukh@courtmail.co
                                                m
  303

LAWYER_ID LAWYER_NAME       SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------ ------------------------
CASE_ID BAR_REGISTRATION_NO
------- -------------------

    504 Adv. Neha Kapoor     Family Law          nehakapoor@lawchambers.co
                                                m
  304

    505 Adv. Rohit Jain      Commercial Law      rohitjain@firm.co.in
  305

    506 Adv. Deepika Rao     Labor Law           deepikarao@legal.org

LAWYER_ID LAWYER_NAME       SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------ ------------------------
CASE_ID BAR_REGISTRATION_NO
------- -------------------
  306

    507 Adv. Imran Siddiqui  Family Law          imransiddiqui@law.co
  307

    508 Adv. Swati Joshi     Tax Law             swatijoshi@taxfirm.com
  308

    509 Adv. Raghav Patnaik  Criminal Law        raghavp@justice.org

LAWYER_ID LAWYER_NAME       SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------ ------------------------
CASE_ID BAR_REGISTRATION_NO
------- -------------------
  309

    510 Adv. Kiran Bedi      Family Law          kiranbedi@familylaw.in
```

```
          310


10 rows selected.

SQL> SELECT * FROM Lawyer;

LAWYER_ID LAWYER_NAME        SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------- ------------------------
CASE_ID BAR_REGISTRATION_NO
------- --------------------
      501 Adv. Arjun Mehta    Criminal Law        arjunmehta@gmail.com
    301

      502 Adv. Sneha Nair     Civil Litigation    snehanair@lawfirm.com
    302

      503 Adv. Ravi Deshmukh  Criminal Law        ravideshmukh@courtmail.co
                                                  m
    303


LAWYER_ID LAWYER_NAME        SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------- ------------------------
CASE_ID BAR_REGISTRATION_NO
------- --------------------
      504 Adv. Neha Kapoor    Family Law          nehakapoor@lawchambers.co
                                                  m
    304

      505 Adv. Rohit Jain     Commercial Law      rohitjain@firm.co.in
    305

      506 Adv. Deepika Rao    Labor Law           deepikarao@legal.org

LAWYER_ID LAWYER_NAME        SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------- ------------------------
CASE_ID BAR_REGISTRATION_NO
------- --------------------
    306

      507 Adv. Imran Siddiqui  Family Law         imransiddiqui@law.co
    307

      508 Adv. Swati Joshi    Tax Law             swatijoshi@taxfirm.com
    308

      509 Adv. Raghav Patnaik  Criminal Law       raghavp@justice.org
```

```
LAWYER_ID LAWYER_NAME        SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------- -----------------------
CASE_ID BAR_REGISTRATION_NO
------- --------------------
    309

    510 Adv. Kiran Bedi     Family Law          kiranbedi@familylaw.in
    310


10 rows selected.
```

SQL>SELECT Lawyer.Lawyer_ID,Lawyer_Name,Specialization,Contact_Info,Case.Case_ID,Title,Case_Category FROM Lawyer,Case
WHERE Lawyer.Case_ID = Case.Case_ID;

```
LAWYER_ID LAWYER_NAME         SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------- -----------------------
CASE_ID TITLE                         CASE_CATEGORY
------- ----------------------------- --------------
    501 Adv. Arjun Mehta     Criminal Law        arjunmehta@gmail.com
    301 Rajiv vs State of Tamil Nadu   Criminal

    502 Adv. Sneha Nair      Civil Litigation    snehanair@lawfirm.com
    302 Priya vs ABC Corporation       Civil

    503 Adv. Ravi Deshmukh   Criminal Law        ravideshmukh@courtmail.co
                                                 m
    303 State of Maharashtra vs Suresh Criminal


LAWYER_ID LAWYER_NAME         SPECIALIZATION      CONTACT_INFO
--------- ------------------- ------------------- -----------------------
CASE_ID TITLE                         CASE_CATEGORY
------- ----------------------------- --------------

    504 Adv. Neha Kapoor      Family Law          nehakapoor@lawchambers.co
                                                 m
    304 Sunil vs Anjali               Family

    505 Adv. Rohit Jain      Commercial Law       rohitjain@firm.co.in
```

305 Bharat Traders vs Esha Ltd   Commercial

     506 Adv. Deepika Rao   Labor Law   deepikarao@legal.org

LAWYER_ID LAWYER_NAME   SPECIALIZATION   CONTACT_INFO
--------- ------------------- ------------------- ------------------------
CASE_ID TITLE   CASE_CATEGORY
------- ----------------------------- --------------
    306 Meena vs Sun Pharma   Labor

     507 Adv. Imran Siddiqui Family Law   imransiddiqui@law.co
    307 Ali vs Fatima   Divorce

     508 Adv. Swati Joshi   Tax Law   swatijoshi@taxfirm.com
    308 XYZ Ltd vs Tax Dept.   Tax

     509 Adv. Raghav Patnaik Criminal Law   raghavp@justice.org

LAWYER_ID LAWYER_NAME   SPECIALIZATION   CONTACT_INFO
--------- ------------------- ------------------- ------------------------
CASE_ID TITLE   CASE_CATEGORY
------- ----------------------------- --------------
    309 State of Odisha vs Ramesh   Criminal

     510 Adv. Kiran Bedi   Family Law   kiranbedi@familylaw.in
    310 Kumar vs Kanchana   Family

10 rows selected.

VIEW:-

CREATE VIEW:

SQL> CREATE VIEW Case_Judge_View AS SELECT c.Case_ID, c.Title AS Case_Title, j.Judge_Name, j.Designation FROM Case c JOIN Judge j ON c.Judge_ID = j.Judge_ID;

View created.

```
SQL> SELECT * FROM Case_Judge_View;

Case ID Case Title                        Judge Name                    Designation

------- ---------------------------------- ----------------------------- -----------------------------

   301  Rajiv vs State of Tamil Nadu     Justice R. Subramanian      High Court   Judge

   302  Priya vs ABC Corporation         Justice Priya Menon         Senior Civil Judge

   303  State of Maharashtra vs Suresh   Justice Dinesh Patil        Sessions Judge

   304  Sunil vs Anjali                  Justice Anita Sharma        Family Judge

   305  Bharat Traders vs Esha Ltd       Justice K. Suresh           Commercial Judge

   306  Meena vs Sun Pharma              Justice Ramesh Iyer         Labor Judge

   307  Ali vs Fatima                    Justice Leela Devi          Family Judge

   308  XYZ Ltd vs Tax Dept.             Justice Aslam Khan          Tax Judge

   309  State of Odisha vs Ramesh        Justice Binod Das           Criminal Judge

   310  Kumar vs Kanchana                Justice Kanchana Rao        Family Judge

10 rows selected
```

CREATE OR REPLACE VIEW:

```
SQL> CREATE OR REPLACE VIEW Case_Judge_View AS SELECT
c.Case_ID,c.Title AS Case_Title,j.Judge_Name,j.Designation,ct.Court_Name FROM
Case c JOIN Judge j ON c.Judge_ID = j.Judge_ID JOIN Court ct ON c.Court_ID =
ct.Court_ID;

View created.



SQL> SELECT * FROM Case_Judge_View;

Case ID   Case Title          Judge Name                Designation
COURT_NAME

------- ---------------------------------- ----------------------------- ---------------------------
------------------------------------------------------------------------------------------

   301  Rajiv vs State of Tamil Nadu     Justice R. Subramanian      High Court Judge
Madras High Court
```

302 Priya vs ABC Corporation   Justice Priya Menon   Senior Civil Judge
Chennai Civil Court

303 State of Maharashtra vs Suresh   Justice Dinesh Patil   Sessions Judge
Mumbai Sessions Court

304 Sunil vs Anjali   Justice Anita Sharma   Family Judge
Delhi Family Court

305 Bharat Traders vs Esha Ltd   Justice K. Suresh   Commercial Judge
Ahmedabad Commercial Court

306 Meena vs Sun Pharma   Justice Ramesh Iyer   Labor Judge
Pune Labor Court

307 Ali vs Fatima   Justice Leela Devi   Family Judge
Hyderabad Family Court

308 XYZ Ltd vs Tax Dept.   Justice Aslam Khan   Tax Judge
Kolkata Tax Court

309 State of Odisha vs Ramesh   Justice Binod Das   Criminal Judge
Bhubaneswar Criminal Court

310 Kumar vs Kanchana   Justice Kanchana Rao   Family Judge
Coimbatore Family Court

10 rows selected.

DROP VIEW:

SQL> DROP VIEW Case_Judge_View;

View dropped.

PL/SQL:-

1. Hearing Table

```
SQL> DECLARE
  2    hearing_rec Hearing%ROWTYPE;
  3  BEGIN
```

```
 4    SELECT * INTO hearing_rec
 5    FROM Hearing
 6    WHERE Hearing_ID = 701;
 7
 8    DBMS_OUTPUT.PUT_LINE('Hearing ID    : ' || hearing_rec.Hearing_ID);
 9    DBMS_OUTPUT.PUT_LINE('Date          : ' || TO_CHAR(hearing_rec.Hearing_Date,
'DD-MON-YYYY'));
10    DBMS_OUTPUT.PUT_LINE('Description   : ' || hearing_rec.Description);
11    DBMS_OUTPUT.PUT_LINE('Outcome       : ' || hearing_rec.Outcome);
12    DBMS_OUTPUT.PUT_LINE('Case ID       : ' || hearing_rec.Case_ID);
13  END;
14  /
```

OUTPUT:

Hearing ID   : 701
Date   : 15-JAN-2020
Description   : First hearing - charges framed
Outcome   : Adjourned
Case ID   : 301

PL/SQL procedure successfully completed.

2.Two Case table

```
SQL> DECLARE
 2    TYPE lawyer_rec_type IS RECORD (
 3      lawyer_id      INT,
 4      name           VARCHAR2(100),
 5      specialization VARCHAR2(100),
 6      case_id        INT
 7    );
 8
 9    lawyer1 lawyer_rec_type;
10    lawyer2 lawyer_rec_type;
11  BEGIN
12    -- Assign values
13    lawyer1.lawyer_id     := 501;
14    lawyer1.name          := 'Adv. Arjun Mehta';
15    lawyer1.specialization := 'Criminal Law';
16    lawyer1.case_id       := 301;
17
18    lawyer2.lawyer_id     := 502;
19    lawyer2.name          := 'Adv. Sneha Nair';
20    lawyer2.specialization := 'Civil Litigation';
21    lawyer2.case_id       := 302;
22
```

```
 23     -- Display
 24     DBMS_OUTPUT.PUT_LINE('Lawyer1: ' || lawyer1.name || ', Spec: ' ||
lawyer1.specialization || ', Case ID: ' || lawyer1.case_id);
 25     DBMS_OUTPUT.PUT_LINE('Lawyer2: ' || lawyer2.name || ', Spec: ' ||
lawyer2.specialization || ', Case ID: ' || lawyer2.case_id);
 26  END;
 27  /
```

OUTPUT:

Lawyer1: Adv. Arjun Mehta, Spec: Criminal Law, Case ID: 301
Lawyer2: Adv. Sneha Nair, Spec: Civil Litigation, Case ID: 302

PL/SQL procedure successfully completed.