

COURT CASES DATABASE

ER DIAGRAM:-

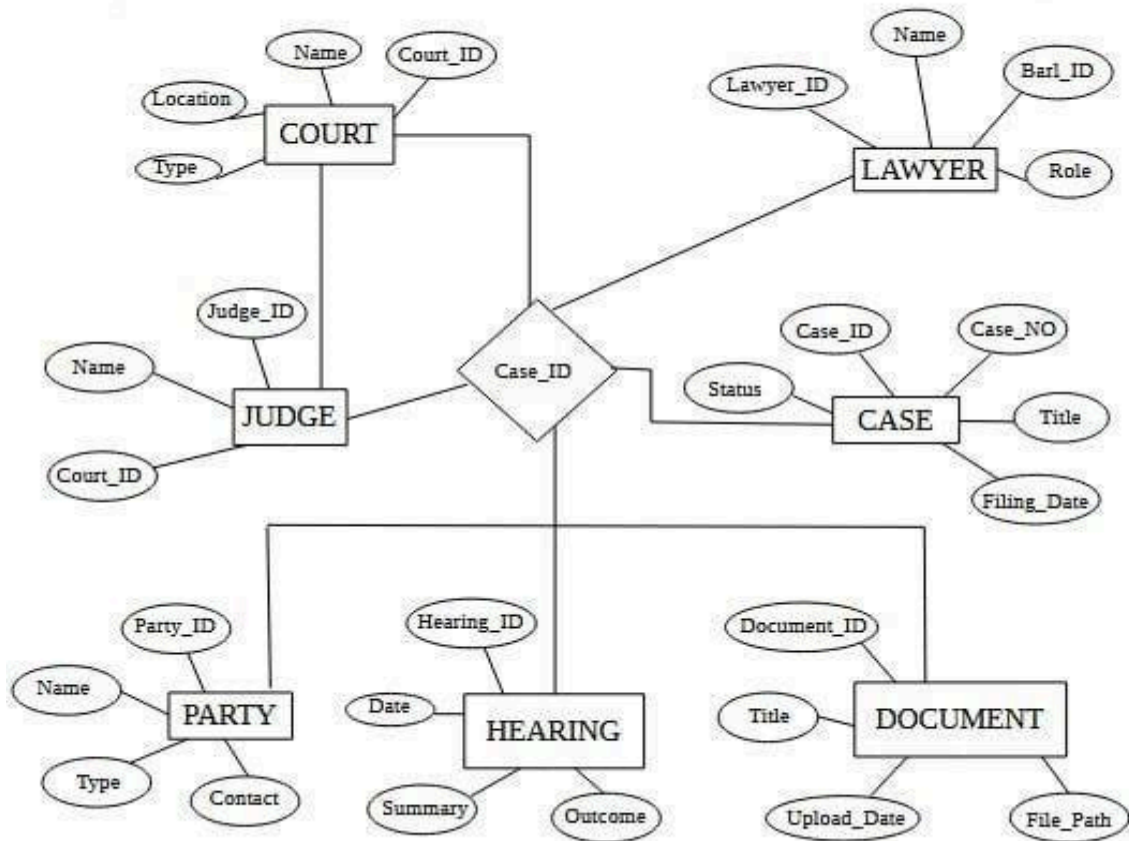


TABLE NAME:CASE

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:-

```
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.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

```
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

```
SQL>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
302	Priya vs ABC Corporation	Chennai Civil Court	Justice Priya Menon
303	State of Maharashtra vs Suresh	Mumbai Sessions Court	Justice Dinesh Patil
304	Sunil vs Anjali	Delhi Family Court	Justice Anita Sharma
305	Bharat Traders vs Esha Ltd	Ahmedabad Commercial Court	Justice K. Suresh
306	Meena vs Sun Pharma	Pune Labor Court	Justice Ramesh Iyer
307	Ali vs Fatima	Hyderabad Family Court	Justice Leela Devi
308	XYZ Ltd vs Tax Dept.	Kolkata Tax Court	Justice Aslam Khan
309	State of Odisha vs Ramesh	Bhubaneswar Criminal Court	Justice Binod Das
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
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.

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
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
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
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 I.Lawyer_Name, j.Judge_Name FROM Lawyer I 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.

★ INTEGRITY CONSTRAINTS:-

```
SQL>SELECT * FROM Case;
```

CASE_ID	TITLE	CASE_CATEGORY	FILING_DATE	COURT_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
-----	-----------------	--------	-----------	-----

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

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

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

JUDGE_ID

307	Ali vs Fatima	Divorce	01-JUL-23	207
-----	---------------	---------	-----------	-----

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

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

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

JUDGE_ID

310	Kumar vs Kanchana	Family	22-OCT-25	210
-----	-------------------	--------	-----------	-----

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

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

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

503	Adv. Ravi Deshmukh	Criminal Law	ravideshmukh@courtmail.com
-----	--------------------	--------------	----------------------------

LAWYER_ID	LAWYER_NAME	SPECIALIZATION	CONTACT_INFO
-----------	-------------	----------------	--------------

CASE_ID	BAR_REGISTRATION_NO
---------	---------------------

504	Adv. Neha Kapoor	Family Law	nehakapoor@lawchambers.com
-----	------------------	------------	----------------------------

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

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

LAWYER_ID	LAWYER_NAME	SPECIALIZATION	CONTACT_INFO
-----------	-------------	----------------	--------------

CASE_ID	BAR_REGISTRATION_NO
---------	---------------------

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

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

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

LAWYER_ID	LAWYER_NAME	SPECIALIZATION	CONTACT_INFO
-----------	-------------	----------------	--------------

CASE_ID	BAR_REGISTRATION_NO
---------	---------------------

510	Adv. Ananya Singh	Corporate Law	ananya@corporatelaw.com
-----	-------------------	---------------	-------------------------

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.com
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.com
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 Madras High Court	Justice R. Subramanian	High Court Judge
302	Priya vs ABC Corporation Chennai Civil Court	Justice Priya Menon	Senior Civil Judge
303	State of Maharashtra vs Suresh Mumbai Sessions Court	Justice Dinesh Patil	Sessions Judge

304 Sunil vs Anjali Delhi Family Court	Justice Anita Sharma	Family Judge
305 Bharat Traders vs Esha Ltd Ahmedabad Commercial Court	Justice K. Suresh	Commercial Judge
306 Meena vs Sun Pharma Pune Labor Court	Justice Ramesh Iyer	Labor Judge
307 Ali vs Fatima Hyderabad Family Court	Justice Leela Devi	Family Judge
308 XYZ Ltd vs Tax Dept. Kolkata Tax Court	Justice Aslam Khan	Tax Judge
309 State of Odisha vs Ramesh Bhubaneswar Criminal Court	Justice Binod Das	Criminal Judge
310 Kumar vs Kanchana Coimbatore Family Court	Justice Kanchana Rao	Family Judge

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.

★ FUNCTIONS:-

1. Get Judge Name by Case ID

```
SQL> CREATE OR REPLACE FUNCTION Get_Judge_Name(p_case_id IN
NUMBER)
2 RETURN VARCHAR2
3 IS
4   v_judge_name VARCHAR2(100);
5 BEGIN
6   SELECT Judge_Name
7   INTO v_judge_name
8   FROM Judge
9   WHERE Case_ID = p_case_id;
10
11  RETURN v_judge_name;
12 EXCEPTION
13  WHEN NO_DATA_FOUND THEN
14    RETURN 'No Judge Assigned';
15 END;
16 /
```

Function created.

```
SQL> DECLARE
2   input_case_id NUMBER;
3   result VARCHAR2(100);
4 BEGIN
5   input_case_id := &enter_case_id;
6   result := Get_Judge_Name(input_case_id);
7
8   DBMS_OUTPUT.PUT_LINE('The Judge for Case ID ' || input_case_id || ' is: ' ||
result);
9 END;
10 /
```

OUTPUT:

```
Enter value for enter_case_id: 305
old 5:  input_case_id := &enter_case_id;
new 5:  input_case_id := 305;
The Judge for Case ID 305 is: Justice K. Suresh
```

PL/SQL procedure successfully completed.

2.Get Lawyer Specialization using Lawyer_ID

```
SQL> CREATE OR REPLACE FUNCTION
Get_Lawyer_Specialization(p_lawyer_id IN NUMBER)
2 RETURN VARCHAR2
3 IS
4   v_spec VARCHAR2(100);
5 BEGIN
6   SELECT Specialization
7   INTO v_spec
8   FROM Lawyer
9   WHERE Lawyer_ID = p_lawyer_id;
10
11  RETURN v_spec;
12 EXCEPTION
13  WHEN NO_DATA_FOUND THEN
14    RETURN 'No Lawyer Found';
15 END;
16 /
```

Function created.

```
SQL> DECLARE
2   input_lawyer_id NUMBER;
3   result VARCHAR2(100);
4 BEGIN
5   input_lawyer_id := &enter_lawyer_id;
6   result := Get_Lawyer_Specialization(input_lawyer_id);
7
8   DBMS_OUTPUT.PUT_LINE('The Specialization of Lawyer ID ' ||
input_lawyer_id || ' is: ' || result);
9 END;
10 /
```


OUTPUT:

Enter value for enter_lawyer_id: 505

old 5: input_lawyer_id := &enter_lawyer_id;

new 5: input_lawyer_id := 505;

The Specialization of Lawyer ID 505 is: Commercial Law

PL/SQL procedure successfully completed.

3.Get Case Title using Judge_ID

SQL> CREATE OR REPLACE FUNCTION

Get_Case_Title_By_Judge(p_judge_id IN NUMBER)

2 RETURN VARCHAR2

3 IS

4 v_title VARCHAR2(200);

5 BEGIN

6 SELECT c.Title

7 INTO v_title

8 FROM Case c

9 JOIN Judge j ON c.Case_ID = j.Case_ID

10 WHERE j.Judge_ID = p_judge_id;

11

12 RETURN v_title;

13 EXCEPTION

14 WHEN NO_DATA_FOUND THEN

15 RETURN 'No Case Found for this Judge';

16 END;

17 /

Function created.

SQL> DECLARE

2 input_judge_id NUMBER;

3 result VARCHAR2(200);

4 BEGIN

5 input_judge_id := &enter_judge_id;

6 result := Get_Case_Title_By_Judge(input_judge_id);

7

8 DBMS_OUTPUT.PUT_LINE('The Case handled by Judge ID ' ||

input_judge_id || ' is: ' || result);

9 END;

10 /

OUTPUT:

Enter value for enter_judge_id: 401

old 5: input_judge_id := &enter_judge_id;

new 5: input_judge_id := 401;

The Case handled by Judge ID 401 is: Rajiv vs State of Tamil Nadu

PL/SQL procedure successfully completed.

★PACKAGES:-

1.Package to Get Hearing Outcome and Court Info

SQL> CREATE OR REPLACE PACKAGE Case_Hearing_Pkg AS

2 FUNCTION Get_Latest_Hearing_Outcome(p_case_id IN NUMBER) RETURN
VARCHAR2;

3 FUNCTION Get_Court_Name(p_case_id IN NUMBER) RETURN VARCHAR2;

4 END Case_Hearing_Pkg;

5 /

Package created.

SQL> CREATE OR REPLACE PACKAGE BODY Case_Hearing_Pkg AS

2

3 FUNCTION Get_Latest_Hearing_Outcome(p_case_id IN NUMBER) RETURN
VARCHAR2 IS

4 v_outcome VARCHAR2(200);

5 BEGIN

6 SELECT Outcome INTO v_outcome

7 FROM (SELECT Outcome FROM Hearing WHERE Case_ID = p_case_id
ORDER BY Hearing_Date DESC)

8 WHERE ROWNUM = 1;

9 RETURN v_outcome;

10 EXCEPTION

11 WHEN NO_DATA_FOUND THEN

12 RETURN 'No Hearing Found';

13 END Get_Latest_Hearing_Outcome;

14

15 FUNCTION Get_Court_Name(p_case_id IN NUMBER) RETURN VARCHAR2
IS

16 v_court VARCHAR2(100);

17 BEGIN

18 SELECT Court_Name INTO v_court

```

19  FROM Court
20  WHERE Case_ID = p_case_id;
21  RETURN v_court;
22  EXCEPTION
23  WHEN NO_DATA_FOUND THEN
24      RETURN 'No Court Found';
25  END Get_Court_Name;
26
27 END Case_Hearing_Pkg;
28 /

```

Package body created.

```

SQL> SET SERVEROUTPUT ON;
SQL>
SQL> DECLARE
  2  v_outcome VARCHAR2(200);
  3  v_court   VARCHAR2(100);
  4  input_id  NUMBER := &enter_case_id;
  5  BEGIN
  6  v_outcome := Case_Hearing_Pkg.Get_Latest_Hearing_Outcome(input_id);
  7  v_court   := Case_Hearing_Pkg.Get_Court_Name(input_id);
  8
  9  DBMS_OUTPUT.PUT_LINE('Court Name: ' || v_court);
 10  DBMS_OUTPUT.PUT_LINE('Latest Hearing Outcome: ' || v_outcome);
 11 END;
 12 /

```

OUTPUT:

```

Enter value for enter_case_id: 302
old  4: input_id NUMBER := &enter_case_id;
new  4: input_id NUMBER := 302;
Court Name: Chennai Civil Court
Latest Hearing Outcome: Judgment Reserved

```

PL/SQL procedure successfully completed.

2. Case and Lawyer Info

```

SQL> CREATE OR REPLACE PACKAGE Small_Case_Pkg AS
  2  FUNCTION Get_Case_Lawyer_Info(p_case_id IN NUMBER) RETURN
  VARCHAR2;
  3  END Small_Case_Pkg;
  4  /

```

Package created.

```
SQL> CREATE OR REPLACE PACKAGE BODY Small_Case_Pkg AS
  2
  3  FUNCTION Get_Case_Lawyer_Info(p_case_id IN NUMBER) RETURN
VARCHAR2 IS
  4  v_title VARCHAR2(200);
  5  v_lawyer VARCHAR2(100);
  6  BEGIN
  7  SELECT Title, Lawyer_Name
  8  INTO v_title, v_lawyer
  9  FROM Case c
 10  JOIN Lawyer l ON c.Case_ID = l.Case_ID
 11  WHERE c.Case_ID = p_case_id;
 12
 13  RETURN 'Case: ' || v_title || ', Lawyer: ' || v_lawyer;
 14  EXCEPTION
 15  WHEN NO_DATA_FOUND THEN
 16  RETURN 'No Case or Lawyer Found';
 17  END Get_Case_Lawyer_Info;
 18
 19 END Small_Case_Pkg;
 20 /
```

Package body created.

```
SQL> SET SERVEROUTPUT ON;
SQL>
SQL> DECLARE
  2  v_info VARCHAR2(300);
  3  input_id NUMBER := &enter_case_id;
  4  BEGIN
  5  v_info := Small_Case_Pkg.Get_Case_Lawyer_Info(input_id);
  6  DBMS_OUTPUT.PUT_LINE(v_info);
  7  END;
  8  /
```

OUTPUT:

Enter value for enter_case_id: 309

old 3: input_id NUMBER := &enter_case_id;

new 3: input_id NUMBER := 309;

Case: State of Odisha vs Ramesh, Lawyer: Adv. Raghav Patnaik

PL/SQL procedure successfully completed.

★ CURSORS

1.List All Judges

```
SQL> DECLARE
 2  CURSOR judge_cur IS
 3      SELECT judge_id, judge_name, designation
 4      FROM judge;
 5
 6  v_id  judge.judge_id%TYPE;
 7  v_name judge.judge_name%TYPE;
 8  v_desg judge.designation%TYPE;
 9  BEGIN
10      OPEN judge_cur;
11      LOOP
12          FETCH judge_cur INTO v_id, v_name, v_desg;
13          EXIT WHEN judge_cur%NOTFOUND;
14
15          DBMS_OUTPUT.PUT_LINE('Judge ID: ' || v_id ||
16                                ', Name: ' || v_name ||
17                                ', Designation: ' || v_desg);
18      END LOOP;
19      CLOSE judge_cur;
20  END;
21 /
```

Judge ID: 401, Name: Justice R. Subramanian, Designation: High Court Judge
Judge ID: 402, Name: Justice Priya Menon, Designation: Senior Civil Judge
Judge ID: 403, Name: Justice Dinesh Patil, Designation: Sessions Judge
Judge ID: 404, Name: Justice Anita Sharma, Designation: Family Judge
Judge ID: 405, Name: Justice K. Suresh, Designation: Commercial Judge
Judge ID: 406, Name: Justice Ramesh Iyer, Designation: Labor Judge
Judge ID: 407, Name: Justice Leela Devi, Designation: Family Judge
Judge ID: 408, Name: Justice Aslam Khan, Designation: Tax Judge
Judge ID: 409, Name: Justice Binod Das, Designation: Criminal Judge
Judge ID: 410, Name: Justice Kanchana Rao, Designation: Family Judge

PL/SQL procedure successfully completed.

2.Cursor with JOIN – Lawyers and Parties

```
SQL> DECLARE
 2  CURSOR party_lawyer_cur IS
 3      SELECT p.party_name, p.party_id, l.lawyer_name, l.specialization
 4      FROM party p
 5      JOIN lawyer l ON p.lawyer_id = l.lawyer_id;
```

```

6
7 BEGIN
8   FOR rec IN party_lawyer_cur LOOP
9       DBMS_OUTPUT.PUT_LINE('Party: ' || rec.party_name ||
10          ' | Lawyer: ' || rec.lawyer_name ||
11          ' (' || rec.specialization || ')');
12   END LOOP;
13 END;
14 /
Party: Rajiv | Lawyer: Adv. Arjun Mehta (Criminal Law)
Party: State of Tamil Nadu | Lawyer: Adv. Arjun Mehta (Criminal Law)
Party: Priya | Lawyer: Adv. Sneha Nair (Civil Litigation)
Party: ABC Corporation | Lawyer: Adv. Sneha Nair (Civil Litigation)
Party: Sunil | Lawyer: Adv. Neha Kapoor (Family Law)
Party: Anjali | Lawyer: Adv. Neha Kapoor (Family Law)
Party: Ali | Lawyer: Adv. Imran Siddiqui (Family Law)
Party: Fatima | Lawyer: Adv. Imran Siddiqui (Family Law)
Party: Kumar | Lawyer: Adv. Kiran Bedi (Family Law)
Party: Kanchana | Lawyer: Adv. Kiran Bedi (Family Law)

```

PL/SQL procedure successfully completed.

3.Cursor with Court Details

```

SQL> DECLARE
2   CURSOR court_cur IS
3       SELECT court_id, court_name, location, type
4       FROM court;
5
6 BEGIN
7   FOR rec IN court_cur LOOP
8       DBMS_OUTPUT.PUT_LINE('Court: ' || rec.court_name ||
9          ' | Location: ' || rec.location ||
10          ' | Type: ' || rec.type);
11   END LOOP;
12 END;
13 /
Court: Madras High Court | Location: Chennai | Type: High Court
Court: Chennai Civil Court | Location: Chennai | Type: Civil Court
Court: Mumbai Sessions Court | Location: Mumbai | Type: Sessions Court
Court: Delhi Family Court | Location: Delhi | Type: Family Court
Court: Ahmedabad Commercial Court | Location: Ahmedabad | Type: Commercial
Court
Court: Pune Labor Court | Location: Pune | Type: Labor Court

```

Court: Hyderabad Family Court | Location: Hyderabad | Type: Family Court
Court: Kolkata Tax Court | Location: Kolkata | Type: Tax Court
Court: Bhubaneswar Criminal Court | Location: Bhubaneswar | Type: Criminal Court
Court: Coimbatore Family Court | Location: Coimbatore | Type: Family Court

PL/SQL procedure successfully completed.

4.Count Hearings Fetched

```
SQL> DECLARE
2  CURSOR hearing_cur IS
3      SELECT hearing_id, hearing_date, outcome FROM hearing;
4
5  v_id   hearing.hearing_id%TYPE;
6  v_date hearing.hearing_date%TYPE;
7  v_out  hearing.outcome%TYPE;
8  BEGIN
9      OPEN hearing_cur;
10     LOOP
11         FETCH hearing_cur INTO v_id, v_date, v_out;
12         EXIT WHEN hearing_cur%NOTFOUND;
13
14         DBMS_OUTPUT.PUT_LINE('Fetched Hearing ' ||
hearing_cur%ROWCOUNT ||
15                               ': ID=' || v_id || ', Outcome=' || v_out);
16     END LOOP;
17     CLOSE hearing_cur;
18 END;
19 /
```

Fetched Hearing 1: ID=701, Outcome=Adjourned
Fetched Hearing 2: ID=702, Outcome=Judgment Reserved
Fetched Hearing 3: ID=703, Outcome=In Progress
Fetched Hearing 4: ID=704, Outcome=Reconciliation Failed
Fetched Hearing 5: ID=705, Outcome=Ongoing
Fetched Hearing 6: ID=706, Outcome=Partial Settlement
Fetched Hearing 7: ID=707, Outcome=Reserved for Judgment
Fetched Hearing 8: ID=708, Outcome=Further Hearing Scheduled
Fetched Hearing 9: ID=709, Outcome=Adjourned
Fetched Hearing 10: ID=710, Outcome=Judgment Passed
Fetched Hearing 11: ID=711, Outcome=Pending

PL/SQL procedure successfully completed.

★ TRIGGER

1.Trigger – Log Hearing Insertions

```
SQL> CREATE OR REPLACE TRIGGER trg_hearing_log
 2 AFTER INSERT ON Hearing
 3 FOR EACH ROW
 4 BEGIN
 5   DBMS_OUTPUT.PUT_LINE('New Hearing Added: ' || :NEW.Hearing_ID ||
 6                       ' on ' || TO_CHAR(:NEW.Hearing_Date,'DD-MON-YYYY') ||
 7                       ' for Case ' || :NEW.Case_ID);
 8 END;
 9 /
```

Trigger created.

```
SQL> INSERT INTO Hearing VALUES (711,
TO_DATE('12-DEC-2025','DD-MON-YYYY'), 'Additional arguments', 'Pending', 301);
New Hearing Added: 711 on 12-DEC-2025 for Case 301
```

1 row created.

2.Document Trigger – Auto Date if NULL

```
SQL> CREATE OR REPLACE TRIGGER trg_doc_auto_date
 2 BEFORE INSERT ON DOCUMENTS
 3 FOR EACH ROW
 4 BEGIN
 5   IF :NEW.Submission_Date IS NULL THEN
 6     :NEW.Submission_Date := SYSDATE;
 7     DBMS_OUTPUT.PUT_LINE('Auto Date Set for Document ID: ' ||
:NEW.Document_ID);
 8   END IF;
 9 END;
10 /
```

Trigger created.

```
SQL> INSERT INTO Documents VALUES (811, 'Court Notice', 'Legal', NULL, 302);
Auto Date Set for Document ID: 811
```

1 row created.

3.Prevent deleting a case if hearings exist


```

QL> CREATE OR REPLACE TRIGGER trg_no_case_delete
  2 BEFORE DELETE ON case
  3 FOR EACH ROW
  4 DECLARE
  5   v_count NUMBER;
  6 BEGIN
  7   SELECT COUNT(*) INTO v_count FROM hearing WHERE case_id =
:OLD.case_id;
  8   IF v_count > 0 THEN
  9     RAISE_APPLICATION_ERROR(-20001, 'Cannot delete case with
hearings. ');
  10  END IF;
  11 END;
  12 /

```

Trigger created.

Case with hearings:

```

SQL> DELETE FROM case WHERE case_id = 301;
DELETE FROM case WHERE case_id = 301

```

OUTPUT:

ORA-20001: Cannot delete case with hearings.

Case without hearings :

```

SQL>DELETE FROM case WHERE case_id = 302;

```

Output:

1 row deleted

★ EXCEPTION HANDLING

1.Handle "No Data Found" (Case not available)

```

SQL> DECLARE

```

```

  2   v_title  VARCHAR2(200);

```

```

  3 BEGIN

```

```

4  SELECT title
5  INTO v_title
6  FROM case  -- no quotes needed
7  WHERE case_id = 999;  8
9  DBMS_OUTPUT.PUT_LINE('Case Title: ' || v_title);
10
11 EXCEPTION
12  WHEN NO_DATA_FOUND THEN
13      DBMS_OUTPUT.PUT_LINE('No Case found with given ID. ');
14  WHEN OTHERS THEN
15      DBMS_OUTPUT.PUT_LINE('Error: ' || SQLERRM);
16 END;
17 /

```

OUTPUT:

No Case found with given ID.

PL/SQL procedure successfully completed.

2.Handle Duplicate Insert into Judge Table

SQL> DECLARE

```

2  BEGIN
3  INSERT INTO judge (judge_id, judge_name, designation, court_id, case_id)
4  VALUES (401, 'Justice Kumar', 'High Court Judge', 201, 301);
5
6  DBMS_OUTPUT.PUT_LINE('Judge Inserted Successfully');

```

```

7
8 EXCEPTION
9  WHEN DUP_VAL_ON_INDEX THEN
10     DBMS_OUTPUT.PUT_LINE(' Duplicate Judge ID not allowed. ');
11  WHEN OTHERS THEN
12     DBMS_OUTPUT.PUT_LINE('Error: ' || SQLERRM);
13 END;
14 /

```

OUTPUT:

Duplicate Judge ID not allowed.

PL/SQL procedure successfully completed.

3.Custom Exception: Prevent Lawyer Without Case

```

SQL> DECLARE
2  e_no_case EXCEPTION;
3  v_case_id NUMBER := NULL; -- Example missing case
4  BEGIN
5  IF v_case_id IS NULL THEN
6      RAISE e_no_case;
7  END IF;
8
9  INSERT INTO lawyer (lawyer_id, lawyer_name, specialization, contact_info,
case_id, bar_registration_no)
10  VALUES (601, 'Adv. Sharma', 'Criminal Law', '9876543210', v_case_id,
'TN12345');

```

```
11
12  DBMS_OUTPUT.PUT_LINE(' Lawyer Inserted Successfully');
13
14 EXCEPTION
15  WHEN e_no_case THEN
16      DBMS_OUTPUT.PUT_LINE('Lawyer must be assigned to a case. ');
17  WHEN OTHERS THEN
18      DBMS_OUTPUT.PUT_LINE(' Error: ' || SQLERRM);
19 END;
20 /
```

OUTPUT:

Lawyer must be assigned to a case.

PL/SQL procedure successfully completed.

