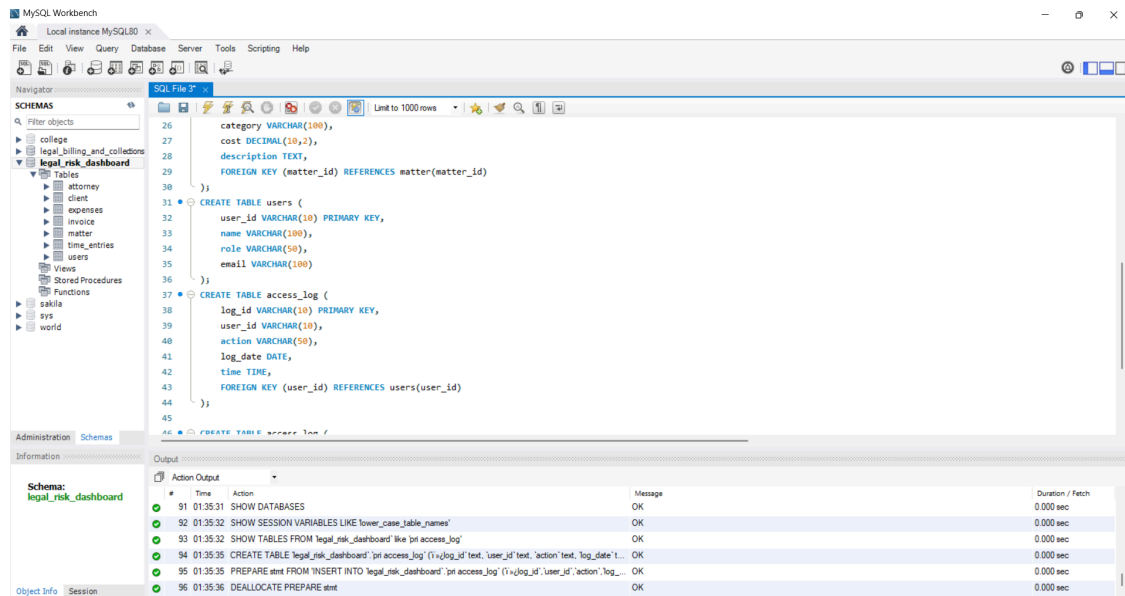


SQL Scripts & Output Workflow – Proactive Risk Intelligence Project

1 Table Creation Query

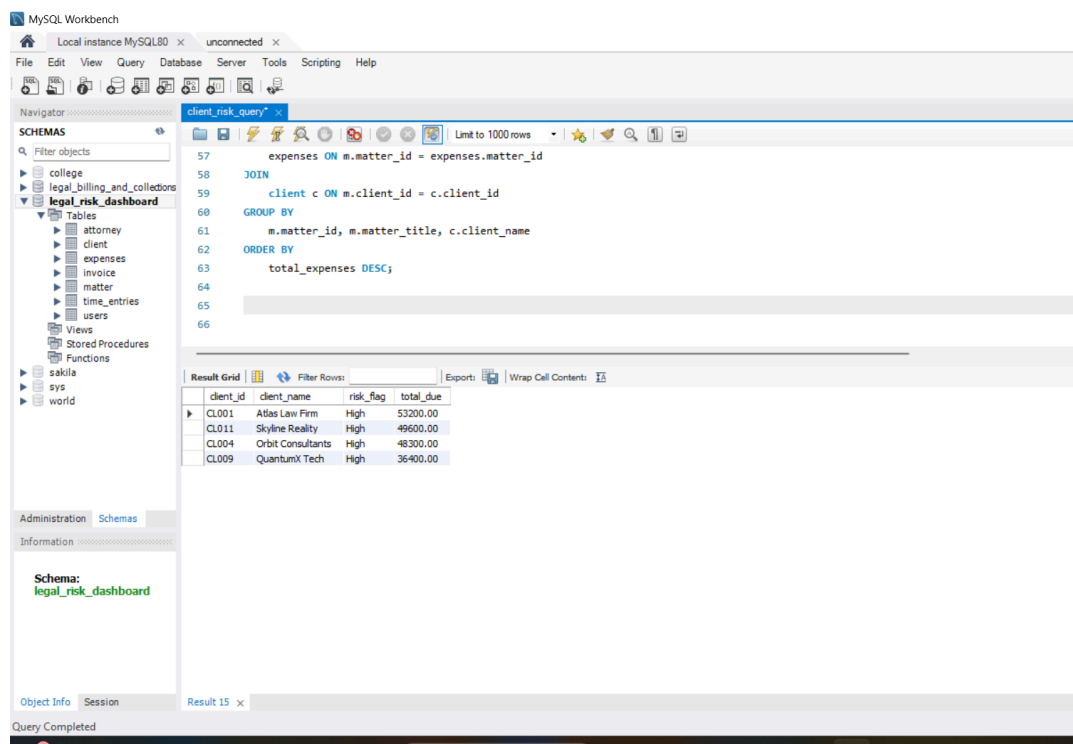


The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'Schemas' list with 'legal_risk_dashboard' selected. The main editor window contains SQL scripts for creating tables: 'category', 'users', 'access_log', and 'access_log'. The 'Output' tab at the bottom shows the execution log, indicating successful completion of the queries.

```
26 category VARCHAR(100),
27 cost DECIMAL(10,2),
28 description TEXT,
29 FOREIGN KEY (matter_id) REFERENCES matter(matter_id)
30 );
31
32 CREATE TABLE users (
33 user_id VARCHAR(10) PRIMARY KEY,
34 name VARCHAR(100),
35 role VARCHAR(50),
36 email VARCHAR(100)
37 );
38
39 CREATE TABLE access_log (
40 log_id VARCHAR(10) PRIMARY KEY,
41 user_id VARCHAR(10),
42 action VARCHAR(50),
43 log_date DATE,
44 time TIME,
45 FOREIGN KEY (user_id) REFERENCES users(user_id)
46 );
47
48 CREATE TABLE access_log (
```

#	Time	Action	Message	Duration / Fetch
91	01:35:31	SHOW DATABASES	OK	0.000 sec
92	01:35:32	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
93	01:35:32	SHOW TABLES FROM 'legal_risk_dashboard' like 'pr access_log'	OK	0.000 sec
94	01:35:35	CREATE TABLE 'legal_risk_dashboard'.'pr access_log' ('+log_id text, 'user_id' text, 'action' text, 'log_date' t...	OK	0.000 sec
95	01:35:35	PREPARE stmt FROM 'INSERT INTO 'legal_risk_dashboard'.'pr access_log' ('+log_id','user_id','action','log_...	OK	0.000 sec
96	01:35:36	DEALLOCATE PREPARE stmt	OK	0.000 sec

2 Client Risk Overview



The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'Schemas' list with 'legal_risk_dashboard' selected. The main editor window contains a SQL query for client risk overview. The 'Result Grid' at the bottom shows the output of the query, displaying client information and risk flags.

```
57 expenses ON m.matter_id = expenses.matter_id
58 JOIN
59 client c ON m.client_id = c.client_id
60 GROUP BY
61 m.matter_id, m.matter_title, c.client_name
62 ORDER BY
63 total_expenses DESC;
64
65
66
```

client_id	client_name	risk_flag	total_due
CL001	Atlas Law Firm	High	53200.00
CL011	Skylark Realty	High	49600.00
CL004	Orbit Consultants	High	48300.00
CL009	QuantumX Tech	High	36400.00

3 High-Risk Client Invoices

MySQL Workbench

Local instance MySQL80

client_risk_query

```
9      c.risk_flag,  
10      i.invoice_id,  
11      i.amount_billed,  
12      i.amount_paid,  
13      i.due_date,  
14      i.status  
15  FROM  
16      client c  
17  JOIN  
18      invoice i ON c.client_id = i.client_id  
19  WHERE  
20      c.risk_flag = 'High'  
21  ORDER BY  
22      c.client_id, i.due_date;
```

Result Grid

client_id	client_name	industry	risk_flag	invoice_id	amount_billed	amount_paid	due_date	status
CL001	Atlas Law Firm	Legal	High	INV001	12000.00	2000.00	2024-09-15	Partially Paid
CL001	Atlas Law Firm	Legal	High	INV042	8800.00	3000.00	2024-10-11	Partially Paid
CL001	Atlas Law Firm	Legal	High	INV005	15000.00	4000.00	2025-01-02	Partially Paid
CL001	Atlas Law Firm	Legal	High	INV048	9900.00	0.00	2025-03-15	Unpaid
CL001	Atlas Law Firm	Legal	High	INV009	10000.00	6000.00	2025-04-10	Partially Paid
CL001	Atlas Law Firm	Legal	High	INV041	12500.00	0.00	2025-04-22	Unpaid
CL004	Orbit Consultants	Corporate	High	INV002	8000.00	0.00	2024-10-01	Unpaid
CL004	Orbit Consultants	Corporate	High	INV043	9500.00	0.00	2024-11-03	Unpaid
CL004	Orbit Consultants	Corporate	High	INV010	9500.00	0.00	2024-11-12	Unpaid
CL004	Orbit Consultants	Corporate	High	INV045	8900.00	4000.00	2025-01-15	Partially Paid
CL004	Orbit Consultants	Corporate	High	INV006	9000.00	0.00	2025-02-10	Unpaid

4 Top Attorney Work Hours

MySQL Workbench

Local instance MySQL80

client_risk_query

```
34  
35  SELECT  
36      a.attorney_id,  
37      a.name,  
38      SUM(t.hours) AS total_hours,  
39      SUM(t.amount) AS total_billed  
40  FROM  
41      time_entries t  
42  JOIN  
43      attorney a ON t.attorney_id = a.attorney_id  
44  GROUP BY  
45      a.attorney_id, a.name  
46  ORDER BY  
47      total_hours DESC;  
48  
49  SELECT
```

Result Grid

attorney_id	name	total_hours	total_billed
A010	Brian Mills	51.70	141795.00
A005	Emily Dickinson	45.61	130130.00
A004	Donna Paulsen	37.82	153640.00
A002	Zane Gilman	37.41	120690.00
A007	Mark Spector	24.61	72755.00
A003	Rachel Carlson	28.37	66470.00
A009	Jenna Scott	26.16	64505.00
A006	Marry Shelly	16.49	76570.00
A001	Rick Hoffman	16.27	63300.00
A008	Shawn Kehil	13.45	37085.00

5 Invoice Recovery Gap

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

college

legal_billing_and_collections

legal_risk_dashboard

Tables

access_log

attorney

client

expenses

invoice

matter

priaccess_log

pri user

time_entries

users

Views

Stored Procedures

Functions

sakila

sys

world

Administration Schemas

Information

No object selected

client_risk_query

Limit to 5000 rows

22 c.client_id, i.due_date,

23

24 • SELECT

25 client_id,

26 invoice_id,

27 amount_billed,

28 amount_paid,

29 (amount_billed - amount_paid) AS outstanding_amount

30 FROM

31 invoice

32 WHERE

33 amount_billed > amount_paid,

34

35 • SELECT

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

client_id	invoice_id	amount_billed	amount_paid	outstanding_amount
CL001	INV001	12000.00	2000.00	10000.00
CL004	INV002	8000.00	0.00	8000.00
CL009	INV003	9500.00	2500.00	7000.00
CL011	INV004	13000.00	0.00	13000.00
CL001	INV005	15000.00	4000.00	11000.00
CL004	INV006	9000.00	0.00	9000.00
CL009	INV007	7000.00	2000.00	5000.00
CL011	INV008	11000.00	0.00	11000.00
CL001	INV009	10000.00	6000.00	4000.00
CL004	INV010	9500.00	0.00	9500.00
CL005	INV012	10000.00	6000.00	4000.00
CL011	INV014	7000.00	0.00	7000.00

Result 3

Read Only

6 Matter Expense Summary

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

college

legal_billing_and_collections

legal_risk_dashboard

Tables

access_log

attorney

client

expenses

invoice

matter

priaccess_log

pri user

time_entries

users

Views

Stored Procedures

Functions

sakila

sys

world

Administration Schemas

Information

No object selected

client_risk_query

Limit to 5000 rows

48

49 • SELECT

50 m.matter_id,

51 m.matter_title,

52 c.client_name,

53 SUM(expenses.cost) AS total_expenses

54 FROM

55 matter m

56 JOIN

57 expenses ON m.matter_id = expenses.matter_id

58 JOIN

59 client c ON m.client_id = c.client_id

60 GROUP BY

61 m.matter_id, m.matter_title, c.client_name

62 ORDER BY

63 total_expenses DESC;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

matter_id	matter_title	client_name	total_expenses
MTR009	Employment Contract Drafting	Atlas Law Firm	9700.00
MTR005	Tax Investigation	Atlas Law Firm	9400.00
MTR006	Vendor Contract Review	Orbit Consultants	8800.00
MTR011	Commercial Lease Negotiation	Beacon LLP	7200.00
MTR017	Procurement Contract Dispute	Station Global	6500.00
MTR012	Trade Secret Violation Case	Zenith Legal Aid	4700.00
MTR023	Cybersecurity Breach Defense	QuantumX Tech	4500.00
MTR004	Labor Dispute Resolution	Skyline Realty	4200.00
MTR020	Environmental Licensing Case	Rotherford Law Firm	3400.00
MTR016	Partnership Agreement Draft	Pearson Spector	3200.00
MTR025	Trademark Registration Appeal	Skyline Realty	3100.00
MTR015	Real Estate Title Transfer	Crest Capital	3000.00
MTR014	Advertising Regulatory Review	FreshMart Retail	2500.00
MTR018	Health Compliance Review	Health vs Medical	2250.00

7 Risk Weighted Revenue

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

client_risk_query

Limit to 5000 rows

SCHEMAS

Filter objects

college

legal_billing_and_collections

legal_risk_dashboard

Tables

access_log

attorney

client

expenses

invoice

matter

priaccess_log

pri user

time_entries

users

Views

Stored Procedures

Functions

sakila

sys

world

```
64
65 • SELECT
66     c.client_id,
67     c.client_name,
68     c.risk_flag,
69     SUM(i.amount_billed - i.amount_paid) AS total_due
70 FROM
71     client c
72 JOIN
73     invoice i ON c.client_id = i.client_id
74 WHERE
75     c.risk_flag = 'High' AND i.amount_billed > i.amount_paid
76 GROUP BY
77     c.client_id, c.client_name, c.risk_flag
78 ORDER BY
79     total_due DESC;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

client_id	client_name	risk_flag	total_due
CL001	Atlas Law Firm	High	53200.00
CL011	Skyline Reality	High	49600.00
CL004	Orbit Consultants	High	48300.00
CL009	QuantumX Tech	High	36400.00

No object selected

8 Time Entry Audit

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

client_risk_query

Limit to 5000 rows

SCHEMAS

Filter objects

college

legal_billing_and_collections

legal_risk_dashboard

Tables

access_log

attorney

client

expenses

invoice

matter

priaccess_log

pri user

time_entries

users

Views

Stored Procedures

Functions

sakila

sys

world

```
79     total_due DESC;
80
81 • SELECT
82     attorney_id,
83     COUNT(*) AS entries_logged,
84     SUM(hours) AS total_hours,
85     SUM(amount) AS revenue_generated,
86     ROUND(SUM(amount)/SUM(hours), 2) AS avg_rate
87 FROM
88     time_entries
89 GROUP BY
90     attorney_id
91 ORDER BY
92     avg_rate ASC;
93
94 • SELECT
```

Result Grid

Filter Rows:

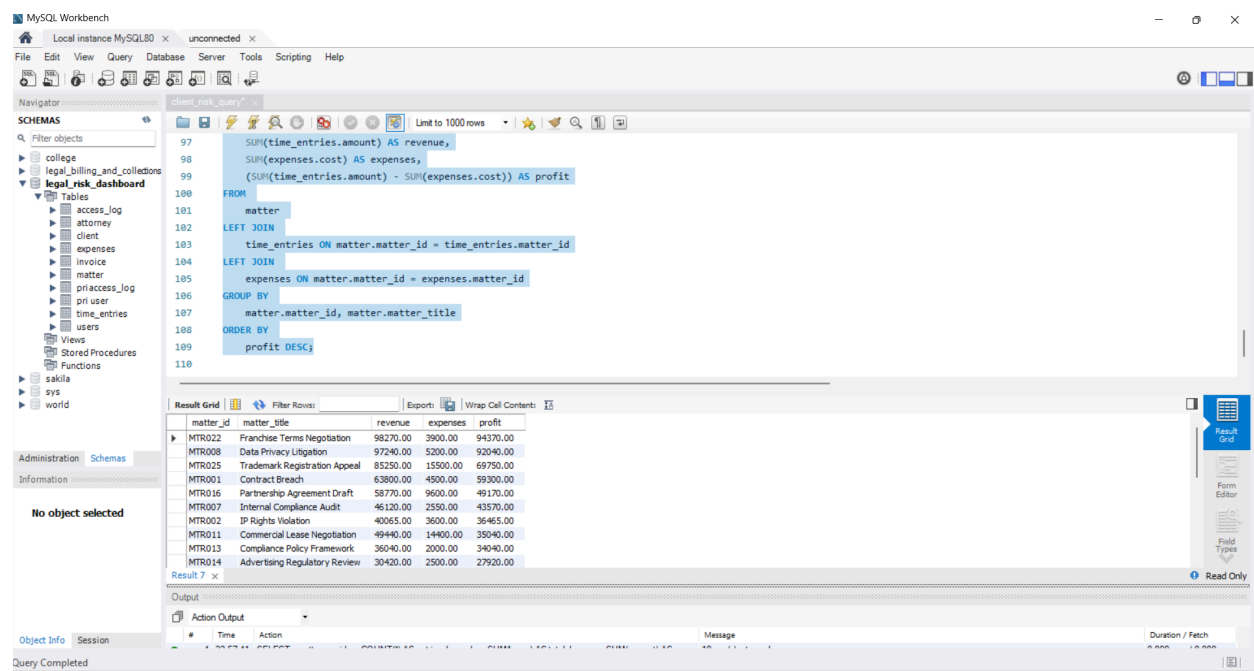
Export:

Wrap Cell Content:

attorney_id	entries_logged	total_hours	revenue_generated	avg_rate
A007	5	34.61	72755.00	2102.14
A003	4	28.37	66470.00	2342.97
A009	4	26.16	64505.00	2465.79
A010	8	51.70	141795.00	2742.65
A008	2	13.45	37085.00	2757.25
A005	7	45.61	130130.00	2853.10
A002	6	37.41	120690.00	3226.14
A001	3	16.27	63300.00	3890.60
A004	7	37.82	153640.00	4062.40
A006	4	16.49	76570.00	4643.42

No object selected

9 Matter Profitability



Conclusion

This collection of SQL queries demonstrates a complete risk intelligence pipeline from identifying high-risk clients and auditing invoices to analyzing attorney productivity and calculating matter profitability. These insights lay the groundwork for a proactive legal operations dashboard, enabling firms to make faster, data-driven decisions with precision.