

DATA BASE CONSULTANTS (DBC)

Project: **LEGAL EAGLES LAW OFFICE DATABASE**

Report by: Rei Celaj

Date: 12/15/2021

Subject: This is the final summary of the project. All applications that are part of the project will be displayed here. This will cover help/error screens, input/output screens, main navigation tools, and SQL documentation.

Status: This executive summary will be used as a documentation of all the aspects that are part of the DBMS. Most of the proposed error/help screens are implemented to the application. Input and output screens are updated from the previous report. The application has reached the final stages of production and will be pushed out for the users soon. Now that the application is finished, there needs to be several tests that must be done to the system. Performance tests should be preformed to show how the application runs under tremendous load. Bugs will be shown from the tests and will be resolved as they are found. In addition, we should be able to figure out the highest amount data that the database could handle as well as the performance as the database increases in size. Legal Eagles should allow their users to be able to test our system to give their feedback. We can tailor their needs and implement those changes into the application.

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User Features and Benefits

1. Search Icon on report pages
 - a. Allows users to search by keywords in the report
 - b. Can help users search for specific rows/columns on the report
 - c. Makes navigating big reports easier
2. Actions tab on report pages
 - a. Can print pdfs of the table
 - b. Can perform calculations on the table
 - c. Filter columns/rows
 - d. Control which columns are visible
 - e. Data can be charted
 - f. Reset all actions done on the table
 - g. Pivot the report
 - h. Format the report to show a certain amount of rows
3. Column names on report pages
 - a. Format the column to be ascending vs descending
4. Filter boxes on report pages after certain actions have been selected
 - a. Users can see the changes they implemented on the report
 - b. Changes can be removed one by one to save certain changes or reverse changes
5. Cancel button on form
 - a. Users can go back to the report page without having to use breadcrumb
 - b. Get rid of all the filled entries on the form for the user
6. Pencil icons next to entries on reports
 - a. Allows users to redirect to form update mode
 - b. Users can update entries for the whole database
7. Create button on form
 - a. Data on form are saved and are created into an entry for the database
 - b. Users are redirected back to the report page
8. Login authentication
 - a. Provides security by requesting credentials from users
9. List of values on certain forms
 - a. Turns foreign keys into information that users can understand
 - b. Users do not have to enter values, they just pick them
 - c. Can make values not null if it is not allowed
10. Calendar icon on form
 - a. Users can pick dates on a calendar instead of entering them manually
 - b. Makes entering dates reliable since those days exist
11. Floating red marks on forms
 - a. Tells users which attributes are required
12. Help screen on bar
 - a. Allows Users to see more help information about the application
 - b. Sees how to solve certain problems with navigation and page functionality
13. Error Screens
 - a. Users can understand the actions that led to the error
 - b. It can let users know how to fix the error

User Operating Instructions

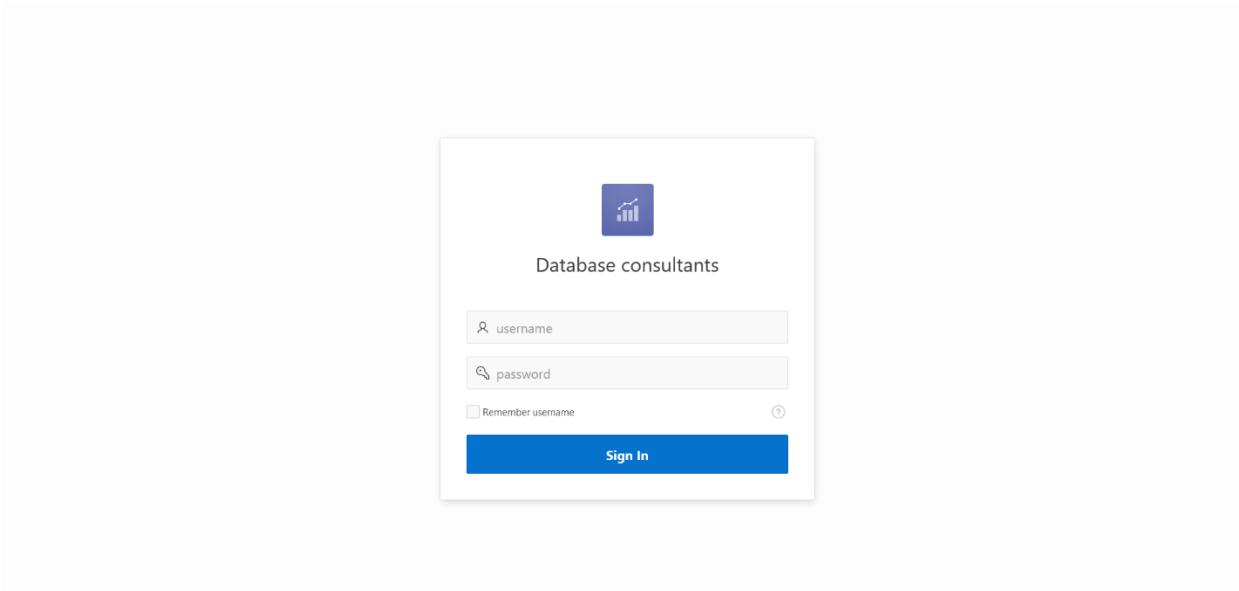
1. The user first needs to sign into the application using the correct credentials provided to them.
2. Once they are authorized to enter the system, they have access to the system features that they can use for their organization.
 - a. They can access reports on the navigation tab to see current data and be able to access forms. They can also be accessed by the list on the main menu screen.
 - i. Forms can update or create new entry for the database.
 - ii. Clicking on the ? on the attributes on a form will give more information on that attribute.
 - iii. Clicking on the action tab on reports can allow users to perform different operations on the report.
 - b. Going deeper on an entry in the Navigation tab allows users to see output queries to view data in a more manageable sense.
3. Users can use breadcrumbs on report and form pages to be able to either go to the previous screen or go back to the home screen.
4. On the Navigation bar, Users can press the help tab to be able to get more information about the application.
5. Users can log out of their account by way of the navigation tab.

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Menus

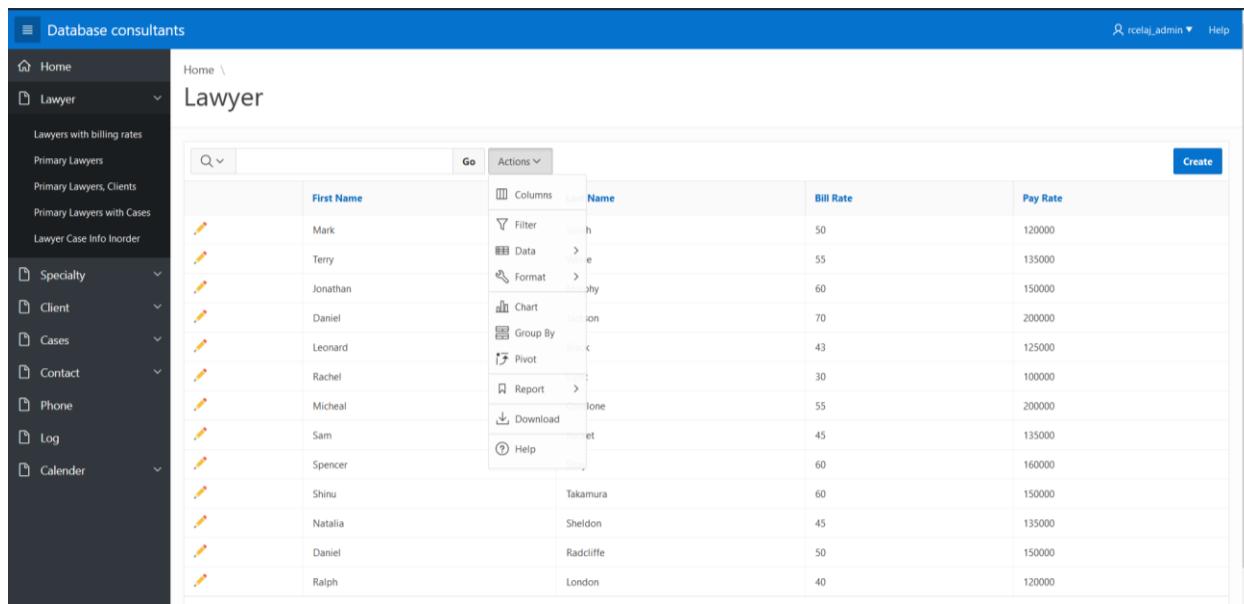
Login Screen



Home Screen

A screenshot of a dashboard titled "Database consultants". The top navigation bar includes a user icon, the title, and a help link. On the left is a dark sidebar with a "Database consultants" header and a list of categories: Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main area has a grid of colored cards: a blue "Lawyer" card, a cyan "Specialty" card, a teal "Client" card, a green "Specialty" card, a green "Lawyer Specialty" card, a yellow "Cases" card, an orange "Contact" card, an orange "Case Contact" card, a red "Phone" card, a pink "Log" card, and a purple "Calendar" card. Each card has a circular icon representing its function.

Report Actions Menu



The screenshot shows a Dynamics 365 Business Central interface for the 'Lawyer' list. The left sidebar contains navigation links like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main area displays a table of lawyers with columns: First Name, Name, Bill Rate, and Pay Rate. A context menu is open over the row for 'Mark'. The menu options include Columns, Filter, Data, Format, Chart, Group By, Pivot, Report, Download, and Help.

	First Name	Name	Bill Rate	Pay Rate
	Mark	h	50	120000
	Terry	e	55	135000
	Jonathan	hy	60	150000
	Daniel	ion	70	200000
	Leonard	c	43	125000
	Rachel	o	30	100000
	Micheal	lone	55	200000
	Sam	et	45	135000
	Spencer	Takamura	60	160000
	Shiru	Sheldon	45	150000
	Natalia	Radcliffe	50	150000
	Daniel	London	40	120000
	Ralph			

Input Screens

Lawyer create/update



The screenshot shows a Dynamics 365 Business Central 'Create/edit Lawyer' form. The left sidebar has the same navigation as the previous screen. The main area is titled 'Create/edit Lawyer' and contains a form titled 'Form on LAWYER' with fields for First Name, Last Name, Bill Rate, and Pay Rate. At the bottom right is a 'Create' button.

The screenshot shows the 'Create/edit Lawyer' page in a web browser. The URL is mcsweb.webster.edu/pls/apex/f?p=194:4:3652561053499::P4_LAWYER_ID:1&cs=3mU4eITK8emTKoYyIAvHd91HDnN0uLg4. The page title is 'Create/edit Lawyer'. On the left, there is a navigation menu under 'Database consultants' with items like Home, Lawyer, Specialty, Client, etc. The main content area shows a form titled 'Form on LAWYER' with fields for First Name (Mark), Last Name (Smith), Bill Rate (50), and Pay Rate (120000). There are 'Cancel' and 'Apply Changes' buttons at the bottom.

Specialty create/update

The screenshot shows the 'Create/edit Specialty' page in a web browser. The URL is mcsweb.webster.edu/pls/apex/f?p=194:5:3652561053499::NO::P5::cs=3Q9c_cDKSEo8AxdhjoxUP1fQhOQvR110QVT3BRt9G7. The page title is 'Create/edit Specialty'. The left navigation menu is identical to the previous screenshot. The main content area shows a form titled 'Form on SPECIALTY' with a single field for Description. There are 'Cancel' and 'Create' buttons at the bottom.

The screenshot shows a web-based application interface for managing database consultants. The left sidebar contains a navigation menu with items such as Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Calender, Lawyer specialty, Case_Contact, Client with Cases, and Appointments. The main content area is titled "Create/edit Specialty" and displays a form titled "Form on SPECIALTY". The form has a single input field labeled "Description" containing the value "Real Estate". At the bottom right of the form are two buttons: "Delete" and "Apply Changes". The browser's address bar shows the URL https://mcsweb.webster.edu/pls/apex/f?p=194:5:3652561053499::P5_SPECIALTY_ID:1&cs=3vAAzgK-MgJ5skfPjBhiu_qHElw9gyMk. The browser's title bar includes tabs for Notes for Report, Assignment 5, COSC 4120 11 F2, Mail - Rei Celaj, SQL Commands, Page Designer, Create/edit S, Home - Connect, COSC 4120 11 F2, Notes for Report, and other system-related items.

Client create/update

The screenshot shows a web-based application interface for managing database consultants. The left sidebar contains a navigation menu with items such as Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Calender, Lawyer specialty, Case_Contact, Client with Cases, and Appointments. The main content area is titled "Create/edit Client" and displays a form titled "Form on CLIENT". The form has five input fields: "Client Name", "Street Address", "City", "State", and "Zipcode". At the bottom right of the form is a single button labeled "Create". The browser's address bar shows the URL https://mcsweb.webster.edu/pls/apex/f?p=194:7:3652561053499::NO::P7:&cs=3oWDe79rl7VwUlJ0PH2W8N_S7rh3UYWenFw3PA9o. The browser's title bar includes tabs for Notes for Report, Assignment 5, COSC 4120 11 F2, Mail - Rei Celaj, SQL Commands, Page Designer, Create/edit C, Home - Connect, COSC 4120 11 F2, Notes for Report, and other system-related items.

The screenshot shows a web application interface for creating or editing a client record. The URL is mcsweb.webster.edu/pls/apex/f?p=194:7:1713131204301::. The page title is "Database consultants". On the left, there is a navigation sidebar with categories like Home, Lawyer, Specialty, Client, etc. The main content area is titled "Create/edit Client" and contains a form for "Form on CLIENT". The fields filled in are:

- Client Name: Samsung
- Street Address: 8764 Seaseme Street
- City: New York City
- State: New York
- Zipcode: 87654

At the bottom right of the form are "Delete" and "Apply Changes" buttons.

Case create/edit

The screenshot shows a web application interface for creating a new case. The URL is mcsweb.webster.edu/pls/apex/f?p=194:13:7632759889832::NO:RP,13::&cs=32s1DTPvZLEZXY-mA223WGzLU8sRFFM6Qf2YumetbnmMk_LVxL8a. The page title is "Database consultants". The left sidebar includes categories such as Home, Lawyer, Specialty, Client, Cases, Case Info, Contact, Phone, Log, and Calender. The main content area is titled "Case" and contains a form with the following fields:

- Lawyer Name: Daniel Jackson
- Description (empty text area)
- Total Cost (empty text area)
- Begin Date (empty date input field)
- Required Completion Date (empty date input field)
- Close Date (empty date input field)

At the bottom right of the form is a "Create" button.

The screenshot shows a web-based application interface for managing cases. The left sidebar menu includes Home, Lawyer, Specialty, Client, Cases (selected), Case Info, Contact, Phone, Log, and Calender. The main content area is titled "Case" and contains fields for Lawyer Name (Mark Smith), Description (Case may be dismissed), Total Cost (1000000), Begin Date (11/16/2018), Required Completion Date (07/18/2021), and Close Date (05/16/2021). At the bottom are "Cancel" and "Apply Changes" buttons.

Contact create/edit

The screenshot shows a web-based application interface for managing contacts. The left sidebar menu includes Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact (selected), Phone, Log, Calender, Lawyer specialty, Case_Contact, Client with Cases, and Appointments. The main content area is titled "Contact Form" and contains fields for Client Name (Apple), First Name, and Last Name. At the bottom are "Cancel" and "Create" buttons.

The screenshot shows a web-based application interface for 'Database consultants'. The top navigation bar includes links for 'Notes for Report', 'Assignment 5', 'COSC 4120 11 F...', 'Mail - Rei Celaj', 'SQL Commands', 'Page Designer', 'Contact Form' (which is the active tab), 'COSC 4120 11 F...', 'Notes for Report', and 'Attack On Titan'. The main content area is titled 'Contact Form' and displays a form with fields for 'Client Name' (Samsung), 'First Name' (Daniel), and 'Last Name' (Repends). A 'Cancel' button and an 'Apply Changes' button are at the bottom right. The left sidebar contains a navigation menu with items like Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Calender, Lawyer specialty, Case_Contact, Client with Cases, and Appointments.

Phone create/edit

The screenshot shows a web-based application interface for 'Database consultants'. The top navigation bar includes links for 'Notes for Report', 'Assignment 5', 'COSC 4120 11 F...', 'Mail - Rei Celaj', 'SQL Commands', 'Page Designer', 'Phone Form' (which is the active tab), 'COSC 4120 11 F...', 'Notes for Report', and 'Attack On Titan'. The main content area is titled 'Phone' and displays a form with fields for 'Contact name' (Delilah Awell), 'Phone Type' (empty), and 'Phone Number' (empty). A 'Cancel' button and a 'Create' button are at the bottom right. The left sidebar contains a navigation menu with items like Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Calender, Lawyer specialty, Case_Contact, Client with Cases, and Appointments.

The screenshot shows a web-based application interface for managing database consultants. The left sidebar contains a navigation menu with items like Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Calender, Lawyer specialty, Case_Contact, Client with Cases, and Appointments. The main content area is titled "Phone" and contains fields for "Contact name" (Daniel Repends), "Phone Type" (Mobile), and "Phone Number" (937-234-9754). At the bottom right are "Delete" and "Apply Changes" buttons. The browser's address bar shows the URL: mcsweb.webster.edu/pls/apex/f?p=194:23:3652561053499::NO:RP:P23_PHONE_ID:1&cs=3f8A9XSC7ibu_JMezrboaBvndYby-.

Log create/edit

The screenshot shows a web-based application interface for managing database consultants. The left sidebar contains a navigation menu with items like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main content area is titled "Log Form" and contains fields for "Lawyer Name" (Leonard Black), "Case Description" (Case Apple v. Epic), "Log Date" (a date input field), "Time Spent" (a text input field), and "Work Done" (a text input field). At the bottom right is a "Create" button. The browser's address bar shows the URL: mcsweb.webster.edu/pls/apex/f?p=194:25:7632759898932::NO:RP:25-&cs=3arlzy_SkkV_8l9Oj_WdcDh4qCrH-8gz8GSYQA65v5hCBNjOXaE_SvrVc.

The screenshot shows the 'Log Form' page within the 'Database consultants' application. The left sidebar contains navigation links for Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main content area displays a form with the following fields:

- Lawyer Name: Jonathan Murphy
- Case Description: Case Apple v. Epic
- Log Date: 12-JAN-21
- Time Spent: 3
- Work Done: Motion for discovery filed

At the bottom right of the form are 'Delete' and 'Apply Changes' buttons.

Calendar create/edit

The screenshot shows the 'Calendar Form' page within the 'Database consultants' application. The left sidebar contains navigation links for Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Calender, Lawyer specialty, Case_Contact, Client with Cases, and Appointments. The main content area displays a form titled 'Form on CALENDAR' with the following fields:

- Lawyer name: Mark Smith
- Contact Name: Daniel Repends
- Date Time
- Duration
- Purpose

At the bottom right of the form is a 'Create' button.

The screenshot shows a web-based application interface for a "Calendar Form". The left sidebar menu includes options like Home, Lawyer, Specialty, Client, etc. The main content area displays a form titled "Form on CALENDAR" with the following fields:

- Lawyer name: Daniel Jackson
- Contact Name: Tiffany Danders
- Date Time: 11/17/2020
- Duration: 3
- Purpose: Discussed defense details

At the bottom right of the form are "Delete" and "Apply Changes" buttons.

Lawyer Specialty create/edit

The screenshot shows a web-based application interface for a "Lawyer specialty Entry" page. The left sidebar menu includes options like Home, Lawyer, Specialty, Client, etc. The main content area displays a form titled "Form on LAWYER_SPECIALTY" with the following fields:

- Lawyer Name: Black, Leonard
- Specialty: Antitrust Law

At the bottom right of the form is a "Create" button.

The screenshot shows a web-based application interface for managing lawyer specialties. The left sidebar menu includes options like Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Lawyer specialty, Case Contact, Client with Cases, Appointments, and Primary Lawyer with The main content area displays a "Lawyer specialty Entry" form titled "Form on LAWYER_SPECIALTY". It contains two input fields: "Lawyer Name" (set to "Black, Leonard") and "Specialty" (set to "Corporation"). At the bottom right of the form are "Delete" and "Apply Changes" buttons. The browser address bar shows the URL: mcsweb.webster.edu/pls/apex/f?p=194:28:3652561053499::P28_ROWID:AABegAAAlAAAHyEAF&cs=3F5xw5yvkbOX6iFry3.

Case Contact create/edit

The screenshot shows a web-based application interface for managing case contacts. The left sidebar menu is identical to the previous screenshot. The main content area displays a "Case_Contact entry" form titled "Form on CASE_CONTACT". It contains two input fields: "Case Description" (set to "Case may be dismissed") and "Contact Name" (set to "Daniel Repends"). At the bottom right of the form is a single "Create" button. The browser address bar shows the URL: mcsweb.webster.edu/pls/apex/f?p=194:30:3652561053499::NO30:&cs=3919o9WnbifMUVgXqnCgDvyUObN3xVY6TaEXJlbvI.

Assignment 5 COSC 4120 11 F2 20... Mail - Rei Celaj - Ou... SQL Commands List Details Case_Contact entry COSC 4120 11 F2 20... Notes for Report 2... + - _ X rcelaj_admin

Database consultants

Home \ Case_Contact \ Case_Contact entry

Form on CASE_CONTACT

Case Description
Case may be dismissed

Contact Name
Micheal Corelone

Cancel Delete Apply Changes

Home Application 194 Edit Page 30 Session View Debug Debug Page Info Quick Edit Theme Roller

Output Screens

A (1)

Dashboard COSC 4120 11 F2 Mail - Rei Celaj App Builder Page Designer SQL Scripts Lawyers with bill... COSC 4120 11 F2 Notes for Report 2... + - _ X rcelaj_admin

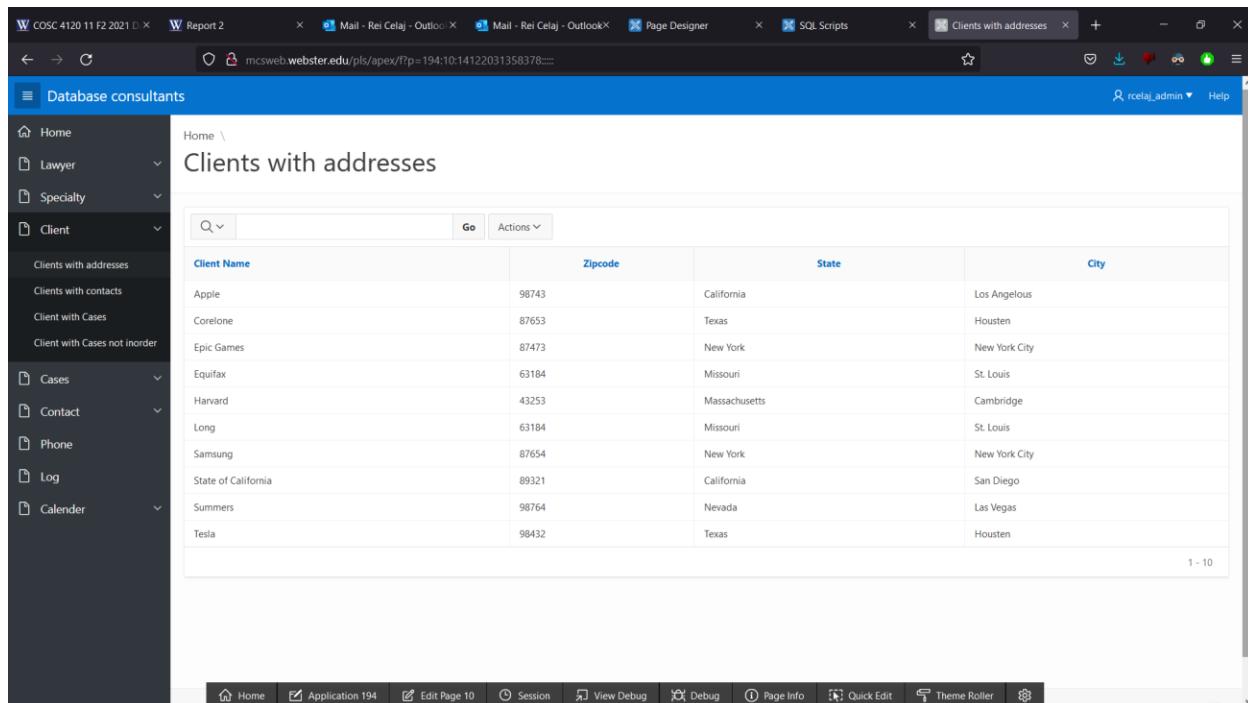
Database consultants

Home \ Lawyers with billing rates

Last Name	First Name	Billing Rate	Annual Salary
Black	Leonard	43	125000
Corelone	Micheal	55	200000
Jackson	Daniel	70	200000
Light	Rachel	30	100000
London	Ralph	40	120000
Murphy	Jonathan	60	150000
Pucket	Sam	45	135000
Radcliffe	Daniel	50	150000
Shay	Spencer	60	160000
Sheldon	Natalia	45	135000
Smith	Mark	50	120000
Takamura	Shinu	60	150000
White	Terry	55	135000

Type here to search 55°F Cloudy 10:29 PM 11/28/2021

A (2)

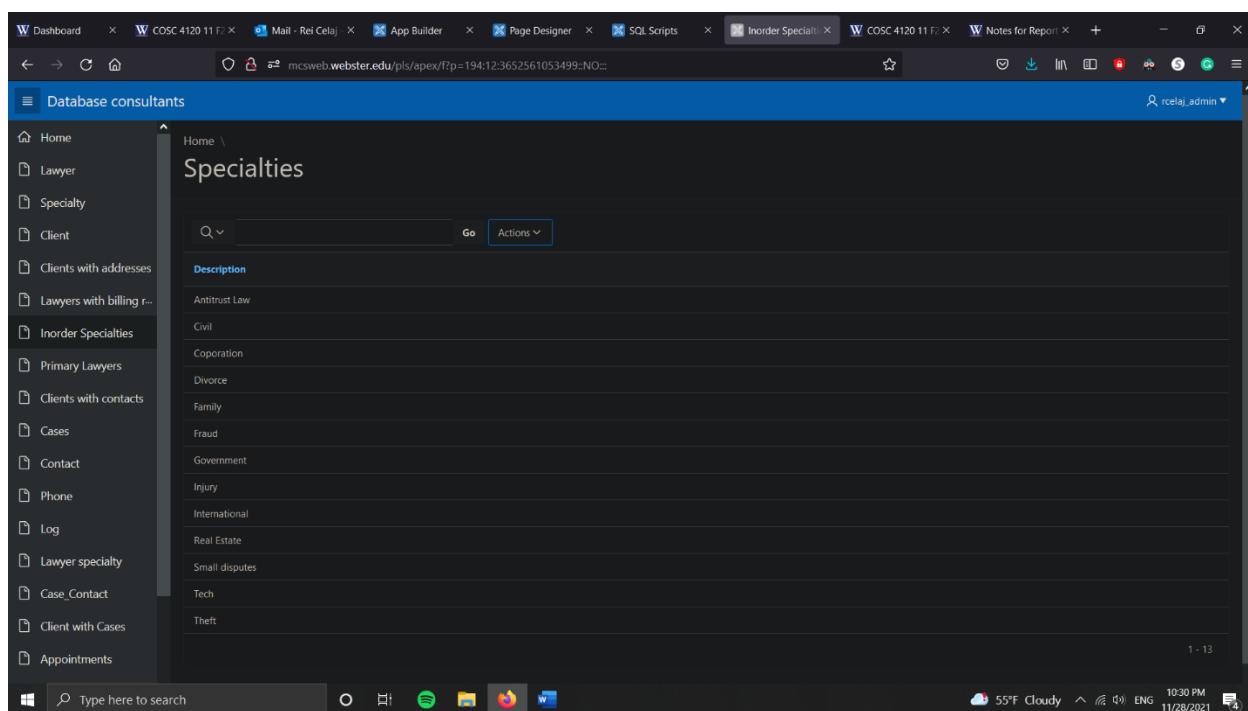


The screenshot shows a web-based application interface for managing client data. The left sidebar contains a navigation menu with categories like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The 'Client' category is expanded, showing sub-options such as Clients with addresses, Clients with contacts, Client with Cases, and Client with Cases not in order. The main content area displays a table titled 'Clients with addresses' with the following data:

Client Name	Zipcode	State	City
Apple	98743	California	Los Angelous
Corelone	87653	Texas	Houston
Epic Games	87473	New York	New York City
Equifax	63184	Missouri	St. Louis
Harvard	43253	Massachusetts	Cambridge
Long	63184	Missouri	St. Louis
Samsung	87654	New York	New York City
State of California	89321	California	San Diego
Summers	98764	Nevada	Las Vegas
Tesla	98432	Texas	Houston

At the bottom of the page, there is a footer bar with links for Home, Application 194, Edit Page 10, Session, View Debug, Debug, Page Info, Quick Edit, Theme Roller, and a gear icon.

A(3)



The screenshot shows another web-based application interface, likely a different module or version of the same system. The left sidebar has a similar navigation menu but includes 'Specialty' under the 'Lawyer' category. The main content area displays a table titled 'Specialties' with the following data:

Description
Antitrust Law
Civil
Corporation
Divorce
Family
Fraud
Government
Injury
International
Real Estate
Small disputes
Tech
Theft

At the bottom of the page, there is a footer bar with links for Dashboard, COSC 4120 11 F2, Mail - Rei Celaj, App Builder, Page Designer, SQL Scripts, Inorder Specialties, COSC 4120 11 F2, Notes for Report, and a gear icon. The taskbar at the bottom of the screen shows various open applications and the system clock.

B(4)

Primary Lawyers

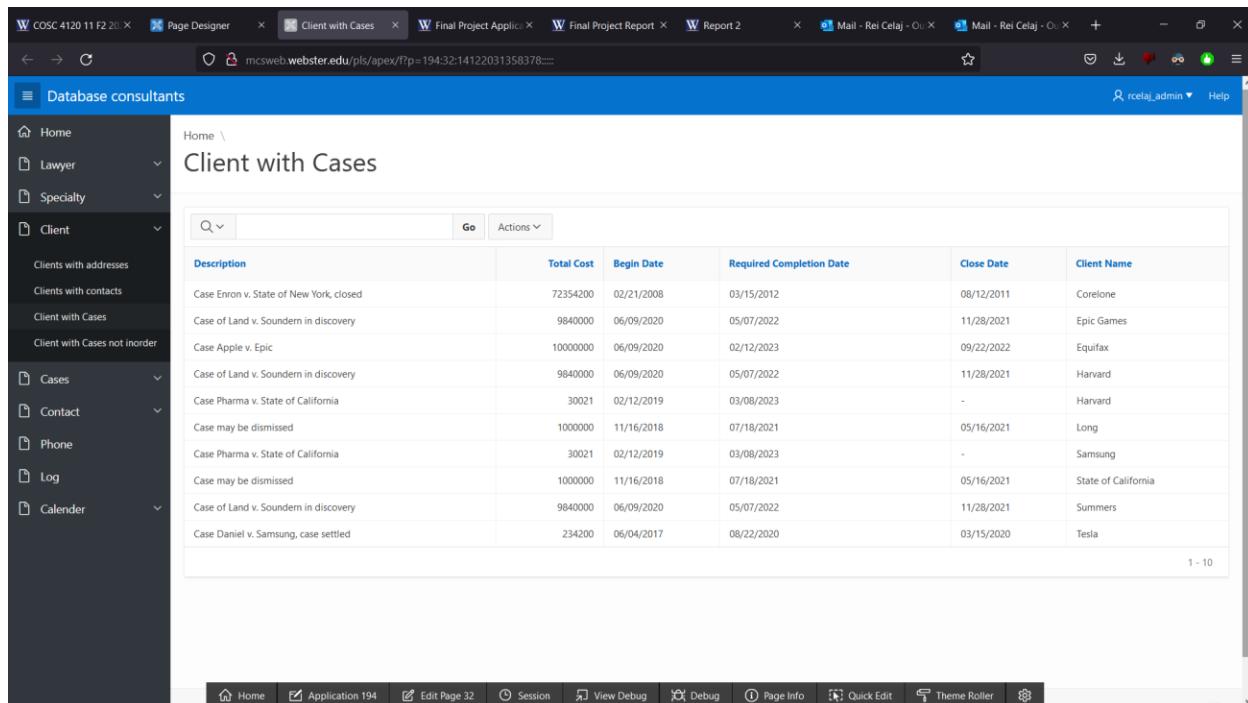
Last Name	First Name	Description	Total Cost	Begin Date	Required Completion Date	Close Date
Smith	Mark	Case may be dismissed	1000000	11/16/2018	07/18/2021	05/16/2021
White	Terry	Case Apple v. Epic	10000000	06/09/2020	02/12/2023	09/22/2022
Murphy	Jonathan	Case of Land v. Soundern in discovery	9840000	06/09/2020	05/07/2022	11/28/2021
Murphy	Jonathan	Case Pharma v. State of California	30021	02/12/2019	03/08/2023	-
Jackson	Daniel	Case Brown v. State of New York	843200	02/25/2018	12/18/2020	08/17/2020
Black	Leonard	Case Daniel v. Samsung, case settled	234200	06/04/2017	08/22/2020	03/15/2020
Light	Rachel	Case Travis Scott v. City of Houston	244200	11/10/2021	05/27/2022	-
Corelone	Micheal	Case Enron v. State of New York, closed	72354200	02/21/2008	03/15/2012	08/12/2011
Pucket	Sam	Case Mars v. Nettle	534200	05/21/2019	04/15/2021	03/18/2021
Shay	Spencer	Case Lauren v. Paul, discovery	23200	01/11/2021	02/03/2023	-

B(5)

Clients with contacts

Client Name	Contact First Name	Contact Last Name	Phone Number	Phone Type
Apple	Leonard	Maxwell	972-125-2381	Work
Corelone	Max	Stewart	123-532-9312	Work
Epic Games	Mary	Light	548-238-2134	Mobile
Equifax	Tiffany	Danders	156-984-7432	Home
Harvard	Delilah	Aswell	184-374-2874	Mobile
Long	Micheal	Corelone	632-732-1234	Home
Samsung	Daniel	Repends	937-234-9754	Mobile
State of California	Robert	Kellog	753-234-8534	Home
Summers	Mandy	Summers	523-532-8321	Mobile
Tesla	Elon	Musk	842-238-9743	Home

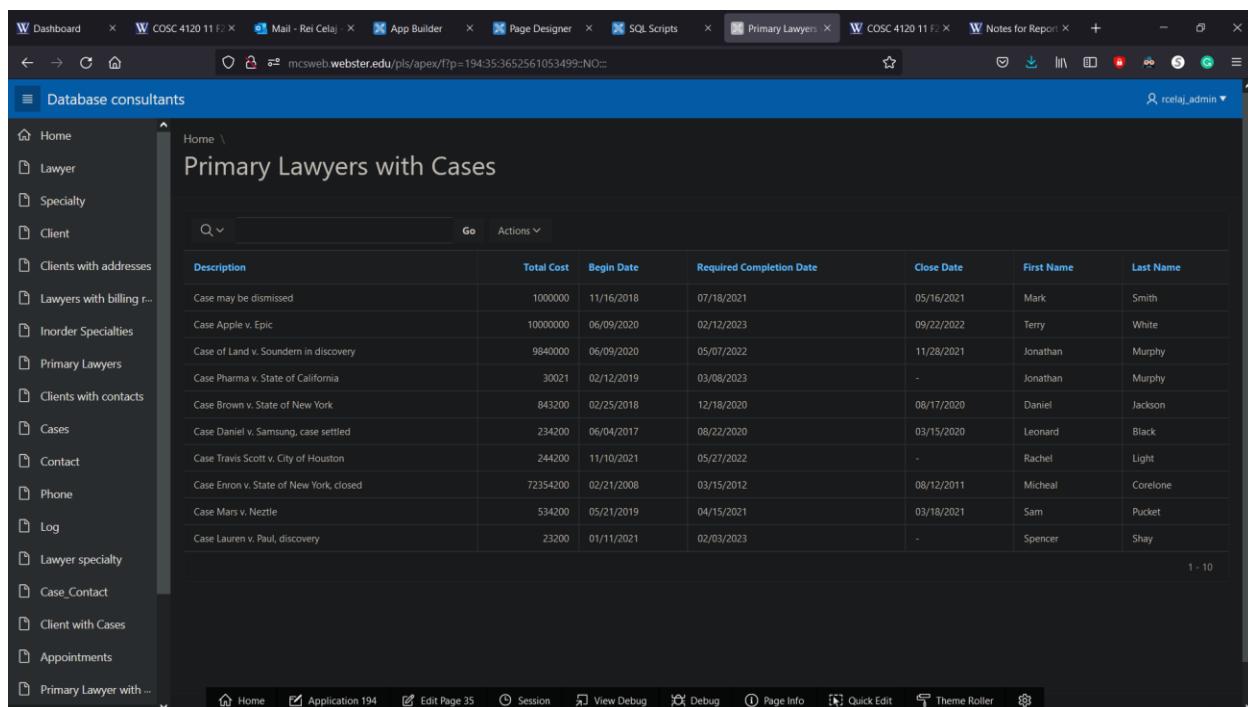
C(6)



The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Client with Cases". The left sidebar contains a navigation menu with categories like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. Under the "Client" category, there are links for "Clients with addresses", "Clients with contacts", "Client with Cases", and "Client with Cases not in order". The main content area displays a table of cases with columns: Description, Total Cost, Begin Date, Required Completion Date, Close Date, and Client Name. The table lists various legal cases with their respective details.

Description	Total Cost	Begin Date	Required Completion Date	Close Date	Client Name
Case Enron v. State of New York, closed	72354200	02/21/2008	03/15/2012	08/12/2011	Corelone
Case of Land v. Soundem in discovery	9840000	06/09/2020	05/07/2022	11/28/2021	Epic Games
Case Apple v. Epic	10000000	06/09/2020	02/12/2023	09/22/2022	Equifax
Case of Land v. Soundem in discovery	9840000	06/09/2020	05/07/2022	11/28/2021	Harvard
Case Pharma v. State of California	30021	02/12/2019	03/08/2023	-	Harvard
Case may be dismissed	1000000	11/16/2018	07/18/2021	05/16/2021	Long
Case Pharma v. State of California	30021	02/12/2019	03/08/2023	-	Samsung
Case may be dismissed	1000000	11/16/2018	07/18/2021	05/16/2021	State of California
Case of Land v. Soundem in discovery	9840000	06/09/2020	05/07/2022	11/28/2021	Summers
Case Daniel v. Samsung, case settled	234200	06/04/2017	08/22/2020	03/15/2020	Tesla

C(7)



The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Primary Lawyers with Cases". The left sidebar contains a navigation menu with categories like Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Lawyer specialty, Case_Contact, Client with Cases, Appointments, and Primary Lawyer with ...". The main content area displays a table of cases with columns: Description, Total Cost, Begin Date, Required Completion Date, Close Date, First Name, and Last Name. The table lists various legal cases with their respective details.

Description	Total Cost	Begin Date	Required Completion Date	Close Date	First Name	Last Name
Case may be dismissed	1000000	11/16/2018	07/18/2021	05/16/2021	Mark	Smith
Case Apple v. Epic	10000000	06/09/2020	02/12/2023	09/22/2022	Terry	White
Case of Land v. Soundem in discovery	9840000	06/09/2020	05/07/2022	11/28/2021	Jonathan	Murphy
Case Pharma v. State of California	30021	02/12/2019	03/08/2023	-	Jonathan	Murphy
Case Brown v. State of New York	843200	02/25/2018	12/18/2020	08/17/2020	Daniel	Jackson
Case Daniel v. Samsung, case settled	234200	06/04/2017	08/22/2020	03/15/2020	Leonard	Black
Case Travis Scott v. City of Houston	244200	11/10/2021	05/27/2022	-	Rachel	Light
Case Enron v. State of New York, closed	72354200	02/21/2008	03/15/2012	08/12/2011	Micheal	Corelone
Case Mars v. Nezzle	534200	05/21/2019	04/15/2021	03/18/2021	Sam	Pucket
Case Lauren v. Paul, discovery	23200	01/11/2021	02/03/2023	-	Spencer	Shay

C(8)

Description	Client Name	Total Cost	Begin Date	Required Completion Date	Close Date
Case may be dismissed	Long	1000000	11/16/2018	07/18/2021	05/16/2021
Case may be dismissed	State of California	1000000	11/16/2018	07/18/2021	05/16/2021
Case Apple v. Epic	Equifax	10000000	06/09/2020	02/12/2023	09/22/2022
Case of Land v. Soundern in discovery	Summers	9840000	06/09/2020	05/07/2022	11/28/2021
Case of Land v. Soundern in discovery	Epic Games	9840000	06/09/2020	05/07/2022	11/28/2021
Case of Land v. Soundern in discovery	Harvard	9840000	06/09/2020	05/07/2022	11/28/2021
Case Pharma v. State of California	Samsung	30021	02/12/2019	03/08/2023	-
Case Pharma v. State of California	Harvard	30021	02/12/2019	03/08/2023	-
Case Daniel v. Samsung, case settled	Tesla	234200	06/04/2017	08/22/2020	03/15/2020
Case Enron v. State of New York; closed	Corelone	72354200	02/21/2008	03/15/2012	08/12/2011

1 - 10

C(9)

Purpose	First Name	Last Name	Date Time
Discussed charges	Daniel	Jackson	07/11/2019 04:20 PM
Discussed discovery details	Mark	Smith	02/12/2020 08:30 AM
Met with HR to discuss NDAs	Micheal	Corelone	06/08/2020 06:00 PM
Discussed defense details	Daniel	Jackson	11/17/2020 11:45 AM
Planned discovery	Sam	Pucket	11/17/2020 07:45 PM
Negotiated on settlement	Jonathan	Murphy	06/05/2021 12:25 PM
Explained charges	Spencer	Shay	06/05/2021 02:22 PM
Discussed charges for client	Rachel	Light	06/05/2021 02:25 PM
Negotiated plea	Terry	White	06/06/2021 12:22 PM
Planned charges	Terry	White	08/01/2021 09:15 AM

1 - 10

D(10)

The screenshot shows a web-based application interface for managing lawyer specialties. The left sidebar contains a navigation menu with categories like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main content area displays a table titled 'Lawyer Specialty inorder' with columns for Last Name, First Name, and Description. The data includes entries such as Black (Leonard, Corporation), Corelone (Micheal, Family), Jackson (Daniel, Family), Light (Rachel, Government), London (Ralph, Government), Murphy (Jonathan, Divorce), Pucket (Sam, Divorce), Radcliffe (Daniel, Tech), Shay (Spencer, International), Smith (Mark, Real Estate), Takamura (Shinu, Small disputes), White (Terry, Antitrust Law), and another entry for White (Terry, Real Estate). A search bar at the top allows users to filter the results.

Last Name	First Name	Description
Black	Leonard	Corporation
Corelone	Micheal	Family
Jackson	Daniel	Family
Light	Rachel	Government
London	Ralph	Government
Murphy	Jonathan	Divorce
Pucket	Sam	Divorce
Radcliffe	Daniel	Tech
Shay	Spencer	International
Smith	Mark	Real Estate
Takamura	Shinu	Small disputes
White	Terry	Antitrust Law
White	Terry	Real Estate

D(11)

The screenshot shows a web-based application interface for managing primary lawyers and their clients. The left sidebar contains a navigation menu with categories like Home, Lawyer, Specialty, Client, Clients with addresses, Lawyers with billing r..., Inorder Specialties, Primary Lawyers, Clients with contacts, Cases, Contact, Phone, Log, Lawyer specialty, Case_Contact, Client with Cases, Appointments, and Primary Lawyer with... The main content area displays a table titled 'Primary Lawyer with clients' with columns for First Name, Last Name, Client Name, and Description. The data includes entries such as Mark (Smith, Long, Case may be dismissed), Mark (Smith, State of California, Case may be dismissed), Terry (White, Equifax, Case Apple v. Epic), Jonathan (Murphy, Samsung, Case Pharma v. State of California), Jonathan (Murphy, Summers, Case of Land v. Soundern in discovery), Jonathan (Murphy, Epic Games, Case of Land v. Soundern in discovery), Jonathan (Murphy, Harvard, Case of Land v. Soundern in discovery), Jonathan (Murphy, Harvard, Case Pharma v. State of California), Leonard (Black, Tesla, Case Daniel v. Samsung, case settled), and Micheal (Corelone, Corelone, Case Enron v. State of New York, closed). A search bar at the top allows users to filter the results.

First Name	Last Name	Client Name	Description
Mark	Smith	Long	Case may be dismissed
Mark	Smith	State of California	Case may be dismissed
Terry	White	Equifax	Case Apple v. Epic
Jonathan	Murphy	Samsung	Case Pharma v. State of California
Jonathan	Murphy	Summers	Case of Land v. Soundern in discovery
Jonathan	Murphy	Epic Games	Case of Land v. Soundern in discovery
Jonathan	Murphy	Harvard	Case of Land v. Soundern in discovery
Jonathan	Murphy	Harvard	Case Pharma v. State of California
Leonard	Black	Tesla	Case Daniel v. Samsung, case settled
Micheal	Corelone	Corelone	Case Enron v. State of New York, closed

D(12)

Final Report

Daily Schedule

First Name	Last Name	Purpose	Duration	Client Name	Date Time
Mark	Smith	Discussed discovery details	4	Summers	02/12/2020 08:30 AM
Terry	White	Negotiated plea	3	Corelone	06/06/2021 12:22 PM
Terry	White	Planned charges	3	Epic Games	08/01/2021 09:15 AM
Jonathan	Murphy	Negotiated on settlement	2	Apple	06/05/2019 12:25 PM
Daniel	Jackson	Discussed charges	2	Long	07/11/2020 04:20 PM
Daniel	Jackson	Discussed defense details	3	Equifax	11/17/2021 11:45 AM
Rachel	Light	Discussed charges for client	1	Harvard	06/05/2021 02:25 PM
Micheal	Corelone	Met with HR to discuss NDAs	4	Long	06/08/2020 06:00 PM
Sam	Pucket	Planned discovery	2	Summers	11/17/2020 07:45 PM
Spencer	Shay	Explained charges	3	Long	06/05/2021 02:22 PM

1 - 10

E(13)

Case Info

Description	Client Name	Primary Lawyer	Log Date	Lawyer Name	Work Done	Time Spent	Billed Time
Case Enron v. State of New York, closed	Corelone	Micheal Corelone	07/05/2021	Terry White	Case dismissed	3	165
Case Daniel v. Samsung, case settled	Tesla	Leonard Black	04/25/2021	Sam Pucket	Jury decided on verdict	3	135
Case of Land v. Soundern in discovery	Summers	Jonathan Murphy	02/25/2020	Mark Smith	Motion to dismissed written and filed	2	100
Case of Land v. Soundern in discovery	Epic Games	Jonathan Murphy	02/25/2020	Mark Smith	Motion to dismissed written and filed	2	100
Case of Land v. Soundern in discovery	Harvard	Jonathan Murphy	02/25/2020	Mark Smith	Motion to dismissed written and filed	2	100
Case Pharma v. State of California	Harvard	Jonathan Murphy	07/07/2019	Jonathan Murphy	Judge ordered ruling	1	60
Case Apple v. Epic	Equifax	Terry White	06/01/2019	Daniel Jackson	Motion for discovery filed	4	280
Case Enron v. State of New York, closed	Corelone	Micheal Corelone	09/06/2018	Leonard Black	Motion for discovery filed	5	215
Case Pharma v. State of California	Samsung	Jonathan Murphy	07/07/2019	Jonathan Murphy	Judge ordered ruling	1	60
Case Apple v. Epic	Equifax	Terry White	01/12/2021	Jonathan Murphy	Motion for discovery filed	3	180
Case Apple v. Epic	Equifax	Terry White	07/07/2020	Rachel Light	Jury decided on verdict	2	60

1 - 11

E(14)

Lawyer Name	Billed Time	Description	Client Name	Date Worked	Total Cost
Leonard Black	215	Case Enron v. State of New York, closed	Corelone	09/06/2018	72354200
Daniel Jackson	280	Case Apple v. Epic	Equifax	06/01/2019	10000000
Rachel Light	60	Case Apple v. Epic	Equifax	07/07/2020	10000000
Jonathan Murphy	60	Case Pharma v. State of California	Samsung	07/07/2019	30021
Jonathan Murphy	60	Case Pharma v. State of California	Harvard	07/07/2019	30021
Jonathan Murphy	180	Case Apple v. Epic	Equifax	01/12/2021	10000000
Sam Pucket	135	Case Daniel v. Samsung, case settled	Tesla	04/25/2021	234200
Mark Smith	100	Case of Land v. Soundem in discovery	Summers	02/25/2020	9840000
Mark Smith	100	Case of Land v. Soundem in discovery	Harvard	02/25/2020	9840000
Mark Smith	100	Case of Land v. Soundem in discovery	Epic Games	02/25/2020	9840000
Terry White	165	Case Enron v. State of New York, closed	Corelone	07/05/2021	72354200

Report Pages

Lawyer

	First Name	Last Name	Bill Rate	Pay Rate
	Mark	Smith	50	120000
	Terry	White	55	135000
	Jonathan	Murphy	60	150000
	Daniel	Jackson	70	200000
	Leonard	Black	43	125000
	Rachel	Light	30	100000
	Micheal	Corelone	55	200000
	Sam	Pucket	45	135000
	Spencer	Shay	60	160000
	Shinu	Takamura	60	150000
	Natalia	Sheldon	45	135000
	Daniel	Radcliffe	50	150000
	Ralph	London	40	120000

Specialty

The screenshot shows a web-based application interface for managing database consultants. The left sidebar menu includes Home, Lawyer (with sub-options Inorder Specialties, Lawyer specialty, Lawyer Specialty inorder), Client, Cases, Contact, Phone, Log, and Calender. The main content area is titled "Specialty" and displays a list of descriptions:

Description
Real Estate
Divorce
Antitrust Law
Civil
Family
Injury
Corporation
Tech
Government
International
Small disputes
Theft
Fraud

At the bottom of the page, there are navigation links: Home, Application 194, Edit Page 2, Session, View Debug, Debug, Page Info, Quick Edit, Theme Roller, and a gear icon.

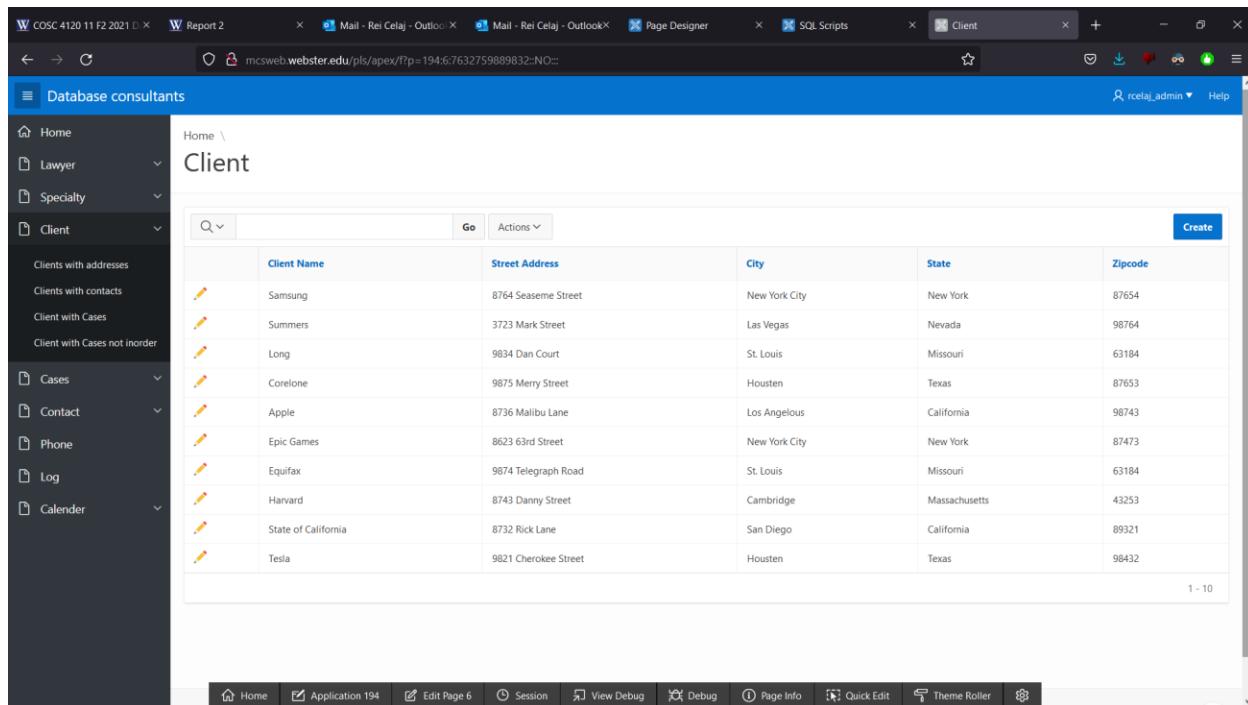
Lawyer Specialty

The screenshot shows a web-based application interface for managing database consultants. The left sidebar menu includes Home, Lawyer (with sub-options Inorder Specialties, Lawyer specialty, Lawyer Specialty inorder), Client, Cases, Contact, Phone, Log, and Calender. The main content area is titled "Lawyer specialty" and displays a list of lawyer names, their first names, and descriptions:

Last Name	First Name	Description
Black	Leonard	Corporation
Corelone	Michael	Family
Jackson	Daniel	Family
Light	Rachel	Government
London	Ralph	Government
Murphy	Jonathan	Divorce
Pucket	Sam	Divorce
Radcliffe	Daniel	Tech
Shay	Spencer	International
Smith	Mark	Real Estate
Takamura	Shinu	Small disputes
White	Terry	Antitrust Law
White	Terry	Real Estate

At the bottom of the page, there are navigation links: Home, Application 194, Edit Page 16, Session, View Debug, Debug, Page Info, Quick Edit, Theme Roller, and a gear icon.

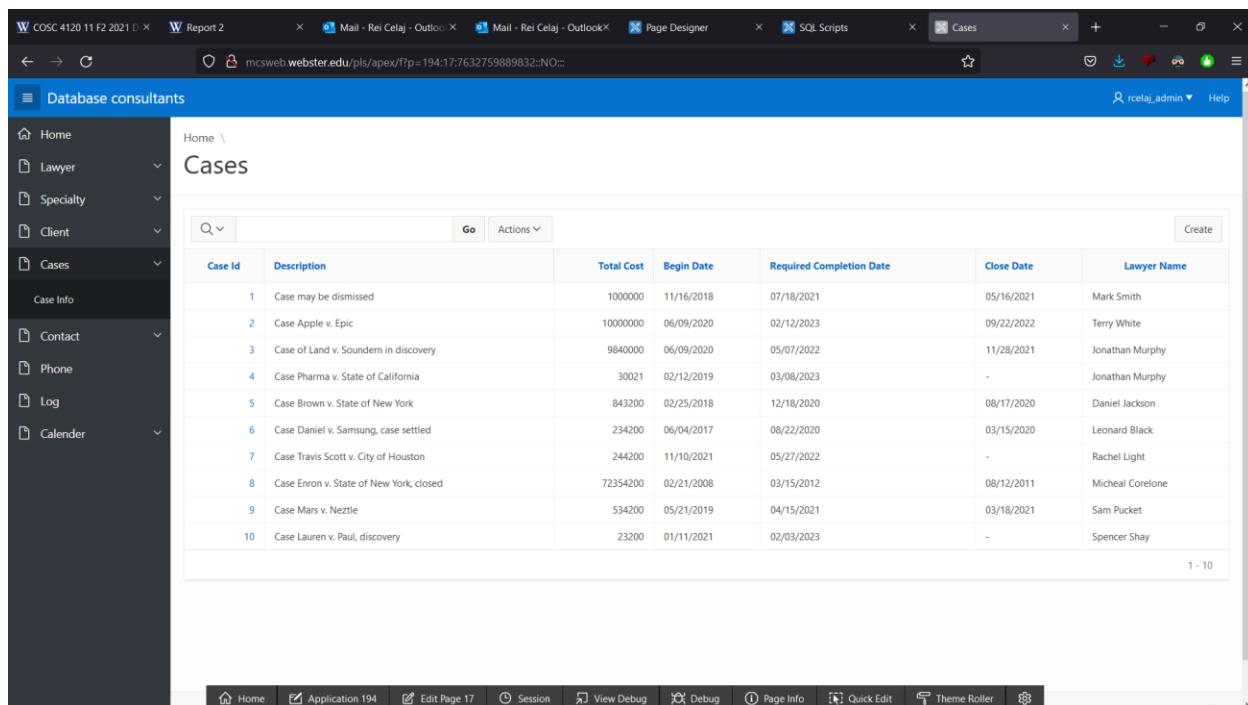
Client



The screenshot shows the Database consultants application interface. The left sidebar has a dark theme with a navigation menu. The main content area is titled "Client". It features a search bar, a "Create" button, and a table listing clients with columns for Client Name, Street Address, City, State, and Zipcode. The table contains 10 rows of data.

	Client Name	Street Address	City	State	Zipcode
1	Samsung	8764 Seaseme Street	New York City	New York	87654
2	Summers	3723 Mark Street	Las Vegas	Nevada	98764
3	Long	9834 Dan Court	St. Louis	Missouri	63184
4	Corelone	9875 Merry Street	Houston	Texas	87653
5	Apple	8736 Malibu Lane	Los Angelous	California	98743
6	Epic Games	8623 63rd Street	New York City	New York	87473
7	Equifax	9874 Telegraph Road	St. Louis	Missouri	63184
8	Harvard	8743 Danny Street	Cambridge	Massachusetts	43253
9	State of California	8732 Rick Lane	San Diego	California	89321
10	Tesla	9821 Cherokee Street	Houston	Texas	98432

Cases



The screenshot shows the Database consultants application interface. The left sidebar has a dark theme with a navigation menu. The main content area is titled "Cases". It features a search bar, a "Create" button, and a table listing cases with columns for Case Id, Description, Total Cost, Begin Date, Required Completion Date, Close Date, and Lawyer Name. The table contains 10 rows of data.

	Case Id	Description	Total Cost	Begin Date	Required Completion Date	Close Date	Lawyer Name
1	1	Case may be dismissed	1000000	11/16/2018	07/18/2021	05/16/2021	Mark Smith
2	2	Case Apple v. Epic	10000000	06/09/2020	02/12/2023	09/22/2022	Terry White
3	3	Case of Land v. Soundem in discovery	9840000	06/09/2020	05/07/2022	11/28/2021	Jonathan Murphy
4	4	Case Pharma v. State of California	30021	02/12/2019	03/08/2023	-	Jonathan Murphy
5	5	Case Brown v. State of New York	843200	02/25/2018	12/18/2020	08/17/2020	Daniel Jackson
6	6	Case Daniel v. Samsung, case settled	234200	06/04/2017	08/22/2020	03/15/2020	Leonard Black
7	7	Case Travis Scott v. City of Houston	244200	11/10/2021	05/27/2022	-	Rachel Light
8	8	Case Enron v. State of New York, closed	72354200	02/21/2008	03/15/2012	08/12/2011	Micheal Corelone
9	9	Case Mars v. Nestle	534200	05/21/2019	04/15/2021	03/18/2021	Sam Pucket
10	10	Case Lauren v. Paul, discovery	23200	01/11/2021	02/03/2023	-	Spencer Shay

Contact

Contact Id	First Name	Last Name	Client Name
1	Daniel	Repends	Samsung
2	Mandy	Summers	Summers
3	Micheal	Corelone	Long
4	Max	Stewart	Corelone
5	Leonard	Maxwell	Apple
6	Mary	Light	Epic Games
7	Tiffany	Danders	Equifax
8	Delilah	Aswell	Harvard
9	Robert	Kellog	State of California
10	Elon	Musk	Tesla

Case Contact

	First Name	Last Name	Description
1	Micheal	Corelone	Case may be dismissed
2	Robert	Kellog	Case may be dismissed
3	Tiffany	Danders	Case Apple v. Epic
4	Mandy	Summers	Case of Land v. Soundern in discovery
5	Mary	Light	Case of Land v. Soundern in discovery
6	Delilah	Aswell	Case of Land v. Soundern in discovery
7	Daniel	Repends	Case Pharma v. State of California
8	Delilah	Aswell	Case Pharma v. State of California
9	Elon	Musk	Case Daniel v. Samsung, case settled
10	Max	Stewart	Case Enron v. State of New York, closed

Phone

Final Report

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Phone" and is part of a system named "Database consultants". The left sidebar contains a navigation menu with items like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main content area displays a table of phone records with columns for Phone Id, Phone Type, Phone Number, and Contact Name. The data includes 10 entries, such as a mobile number for Daniel Repends and a home number for Elon Musk.

Phone Id	Phone Type	Phone Number	Contact Name
1	Mobile	937-234-9754	Daniel Repends
2	Mobile	523-532-8321	Mandy Summers
3	Home	632-732-1234	Michaeal Corelone
4	Work	123-532-9312	Max Stewart
5	Work	972-125-2381	Leonard Maxwell
6	Mobile	548-239-2134	Mary Light
7	Home	156-984-7432	Tiffany Danders
8	Mobile	184-374-2874	Delilah Aowell
9	Home	753-234-8534	Robert Kelog
10	Home	842-238-9743	Elon Musk

Log

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Log" and is part of a system named "Database consultants". The left sidebar contains a navigation menu with items like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main content area displays a table of log entries with columns for Log Id, Log Date, Time Spent, Work Done, Lawyer Name, and Case Description. The data includes 10 entries, such as a motion to dismiss a case by Mark Smith and a plea deal by Sam Pucket.

Log Id	Log Date	Time Spent	Work Done	Lawyer Name	Case Description
1	02/25/2020	2	Motion to dismissed written and filed	Mark Smith	Case of Land v. Soundern in discovery
6	07/05/2021	3	Case dismissed	Terry White	Case Enron v. State of New York; closed
2	01/12/2021	3	Motion for discovery filed	Jonathan Murphy	Case Apple v. Epic
3	07/07/2019	1	Judge ordered ruling	Jonathan Murphy	Case Pharma v. State of California
8	06/01/2019	4	Motion for discovery filed	Daniel Jackson	Case Apple v. Epic
4	09/06/2018	5	Motion for discovery filed	Leonard Black	Case Enron v. State of New York; closed
7	07/07/2020	2	Jury decided on verdict	Rachel Light	Case Apple v. Epic
5	01/08/2020	8	Defendant ordered plea deal	Rachel Light	Case Travis Scott v. City of Houston
9	04/25/2021	3	Jury decided on verdict	Sam Pucket	Case Daniel v. Samsung, case settled
10	08/28/2020	1	Court ordered to be on Zoom	Spencer Shay	Case Travis Scott v. City of Houston

Calendar

The screenshot shows a web-based application interface for 'Database consultants'. On the left is a dark sidebar with navigation links: Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender (which is currently selected). Below these are 'Appointments' and 'Lawyer Daily Schedule'. The main content area has a blue header 'Calender'. Below the header is a search bar and a 'Actions' dropdown. A table lists 10 entries with columns: Purpose, Date Time, Duration Hours, Lawyer Name, and Contact Name. Each entry has a small icon next to it. At the bottom right of the table is a page number '1 - 10'. The footer contains standard navigation icons.

Purpose	Date Time	Duration Hours	Lawyer Name	Contact Name
Discussed discovery details	02/12/2020 08:30 AM	4	Mark Smith	Mandy Summers
Negotiated plea	06/06/2021 12:22 PM	3	Terry White	Max Stewart
Planned charges	08/01/2021 09:15 AM	3	Terry White	Mary Light
Negotiated on settlement	06/05/2021 12:25 PM	2	Jonathan Murphy	Leonard Maxwell
Discussed charges	07/11/2019 04:20 PM	2	Daniel Jackson	Micheal Corelone
Discussed defense details	11/17/2020 11:45 AM	3	Daniel Jackson	Tiffany Danders
Discussed charges for client	06/05/2021 02:25 PM	1	Rachel Light	Delilah Aswell
Met with HR to discuss NDAs	06/08/2020 06:00 PM	4	Micheal Corelone	Micheal Corelone
Planned discovery	11/17/2020 07:45 PM	2	Sam Pucket	Mandy Summers
Explained charges	06/05/2021 02:22 PM	3	Spencer Shay	Micheal Corelone

Miscellaneous Screens

User Help

The screenshot shows a 'User Help' page within the same web application. The sidebar on the left remains the same. The main content area has a blue header 'User Help'. Below the header is a text box containing instructions for using the application. At the bottom of the page is a section titled 'Extended help' with a note about contacting the application manager. The footer contains standard navigation icons.

Features of the application are detailed here:

- If you have issues on what type of value to put in an attribute within a form page, more information can be detailed by clicking the ? icon on that attribute.
- User reports and views can be accessed through the navigation tab on the left side of the screen.
- Forms can only be accessed through report pages through editing an entry or creating a new one.
- Report pages are located as the primary tab of the navigation lists with the exception of Case Contact and Lawyer Specialty.
- Actions can be performed on reports using the Actions tab. More information about the actions can be found there as well.
- Reports can also be accessed through the home page.
- Breadcrumbs at the top left corner of certain pages will allow to go back to the home page or a previous page.

Extended help

If you encounter an issue not shown here or if you have more questions, please contact the application manager.

Index of User Help/Error Screens

1. Help Screens
 - a. Lawyer Form
 - b. Specialty Form
 - c. Client Form
 - d. Lawyer Specialty Form
 - e. Cases Form
 - f. Contact Form
 - g. Case Contact Form
 - h. Phone Form
 - i. Log Form
 - j. Calendar Form
 - k. Report Action Help Screen
 - l. Navigation Tab Help Screen
2. Error Screens
 - a. Lawyer Form
 - b. Specialty Form
 - c. Client Form
 - d. Lawyer Specialty Form
 - e. Cases Form
 - f. Contact Form
 - g. Case Contact Form
 - h. Phone Form
 - i. Log Form
 - j. Calendar Form
 - k. Login Screen

User Help Screens

Lawyer Form

The screenshot shows the 'Create/edit Lawyer' form. The 'First Name' field is highlighted in red with an error message: 'Please fill out this field.' A tooltip for the 'Last Name' field also appears, stating: 'This is a required field. This holds the first name of a lawyer.'

The screenshot shows the 'Create/edit Lawyer' form. The 'Last Name' field is highlighted in red with an error message: 'Please fill out this field.' A tooltip for the 'Bill Rate' field appears, stating: 'This is a required field. This holds the last name for lawyer.'

The screenshot shows the 'Create/edit Lawyer' form. The 'Bill Rate' field is highlighted in red with an error message: 'Please fill out this field.' A tooltip for the 'Bill Rate' field appears, stating: 'This attribute is for the bill rate of a given lawyer. This field should be in numbers.'

Database consultants

Home \ Lawyer \ Create/edit Lawyer

Form on LAWYER

First Name
Please fill out this field.

Last Name
Please fill out this field.

Pay Rate
This attribute is for the pay rate of a given lawyer. This field should be in numbers.

Bill Rate

Pay Rate

Create

Specialty Form

Database consultants

Home \ Specialty \ Create/edit Specialty

Form on SPECIALTY

Description

Description
This is a required attribute. This holds the discipline that a lawyer practices.

Create

Client Form

Database consultants

Home \ Client \ Create/edit Client

Form on CLIENT

Client Name
Help Text: Client Name

Street Address

City
Client Name
This is a required attribute. This is the name of a client.

State

Zipcode

Create

The screenshot shows a 'Create/edit Client' form. On the left is a navigation sidebar with sections like Home, Lawyer, Specialty, Client (selected), Cases, Contact, Phone, Log, and Calender. The main area has a title 'Create/edit Client' and a sub-section 'Form on CLIENT'. It contains fields for 'Client Name', 'Street Address', 'City', 'State', and 'Zipcode'. A tooltip for the 'Street Address' field is displayed, stating: 'This is the street address of the client.'

This screenshot is similar to the first one, showing the 'Create/edit Client' form. The 'City' field has a tooltip: 'This is the city of the client.' There is also a 'Help Text: C' button next to the 'City' field.

This screenshot shows the 'Create/edit Client' form again. The 'State' field has a tooltip: 'This is the state of the client. Full name and not shorten (i.e. MO).' There is also a 'Help Text: State' button next to the 'State' field.

The screenshot shows the 'Create/edit Client' form. The left sidebar has 'Client' selected under 'Lawyer'. The main area shows fields for 'Client Name', 'Street Address', 'City', 'State', and 'Zipcode'. A tooltip for 'Zipcode' says 'This is the zip code for the client.' A 'Create' button is at the bottom right.

Lawyer Specialty Form

The screenshot shows the 'Lawyer specialty Entry' form. The left sidebar has 'Specialty' selected under 'Lawyer'. The main area shows fields for 'Lawyer Name' (with value 'Black, Leonard') and 'Specialty' (with value 'Corporation'). A tooltip for 'Lawyer Name' says 'This is a required attribute. This is the name of a current lawyer.' A 'Create' button is at the bottom right.

The screenshot shows the 'Lawyer specialty Entry' form. The left sidebar has 'Specialty' selected under 'Lawyer'. The main area shows fields for 'Lawyer Name' (with value 'Black, Leonard') and 'Specialty' (with value 'Corporation'). A tooltip for 'Specialty' says 'This is a required attribute. This is the name of a current specialty.' A 'Create' button is at the bottom right.

Cases Form

Database consultants

Home \ Cases \ Case

Case

Lawyer Name
Daniel Jackson

Description
Lawyer Name
This is the primary lawyer for a given case.

Total Cost

Begin Date

Required Completion Date

Close Date

Cancel Create

Database consultants

Home \ Cases \ Case

Case

Lawyer Name
Daniel Jackson

Description
Description
This is a required attribute. This holds the details for a given case.

Total Cost

Begin Date

Required Completion Date

Close Date

Cancel Create

Help Text: Description

Database consultants

Home \ Cases \ Case

Case

Lawyer Name
Daniel Jackson

Description

Total Cost

This is the current total cost of a case.

Total Cost

Begin Date

Required Completion Date

Close Date

Cancel

Create

The screenshot shows a software interface for managing cases. On the left is a navigation sidebar with links like Home, Lawyer, Specialty, Client, Cases, Case Info, Contact, Phone, Log, and Calender. The main area is titled 'Case' and contains fields for 'Lawyer Name' (set to 'Daniel Jackson'), 'Description', 'Total Cost' (with a tooltip explaining it's the current total cost of a case), and dates for 'Begin Date', 'Required Completion Date', and 'Close Date'. There are 'Cancel' and 'Create' buttons at the bottom.

Database consultants

Home \ Cases \ Case

Case

Lawyer Name
Daniel Jackson

Description

Begin Date

This is a required attribute. This holds the start date of a case.

Total Cost

Begin Date

Required Completion Date

Close Date

Cancel

Create

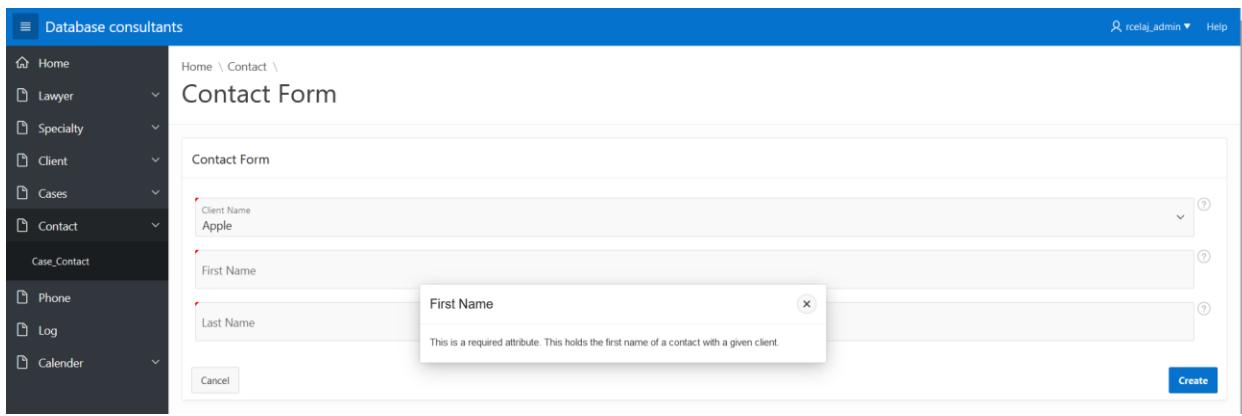
The second screenshot shows the same software interface as the first, but with a focus on the 'Begin Date' field. It has a tooltip explaining that it is a required attribute and holds the start date of a case. A 'Help Text: Begin Date' link is located near the 'Create' button. The rest of the form and sidebar are identical to the first screenshot.

The screenshot shows a 'Case' creation form in a software application. The left sidebar contains navigation links for Home, Lawyer, Specialty, Client, Cases, Case Info, Contact, Phone, Log, and Calender. The main area has fields for Lawyer Name (Daniel Jackson), Description, Total Cost, Begin Date, Required Completion Date, and Close Date. A validation error message for 'Required Completion Date' is displayed: 'Required Completion Date' (with a help text: 'This is a required attribute. This is the date that the case needs to be completed.') and 'Close Date' (with a help text: 'Help Text: Required Completion Date'). A 'Create' button is at the bottom.

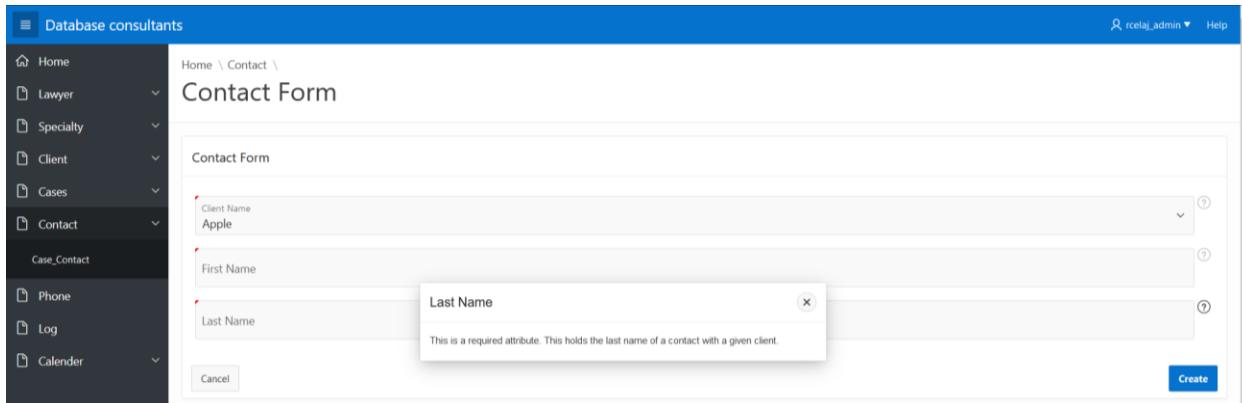
This screenshot is similar to the previous one, showing a 'Case' creation form. The 'Required Completion Date' field is now highlighted in red, indicating it is required. The validation message for 'Close Date' is also present: 'Close Date' (with a help text: 'This is the date where the case is closed and is over.') and 'Required Completion Date'. A 'Create' button is at the bottom.

Contact Form

The screenshot shows a 'Contact Form' creation form. The left sidebar includes 'Case_Contact' under 'Cases'. The main area has fields for Client Name (Apple), First Name, Last Name, and a 'Client Name' dropdown. A validation error message for 'Client Name' is shown: 'Client Name' (with a help text: 'This is a required attribute. This holds the name of a client that exists.') and 'Last Name'. A 'Create' button is at the bottom.



The screenshot shows the 'Contact Form' page. The left sidebar includes 'Case_Contact' under 'Contact'. The main area has fields for 'Client Name' (Apple), 'First Name', and 'Last Name'. A tooltip for 'First Name' states: 'This is a required attribute. This holds the first name of a contact with a given client.' A 'Create' button is at the bottom right.

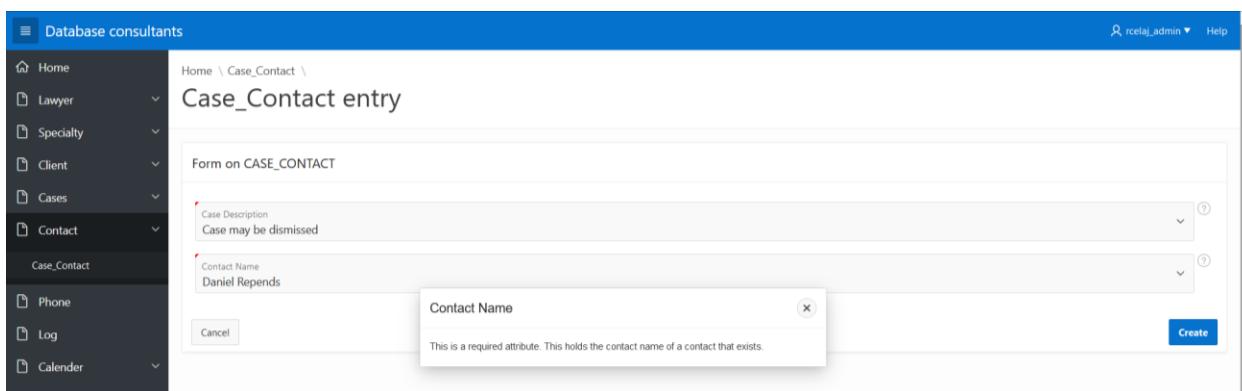


The screenshot shows the 'Contact Form' page. The left sidebar includes 'Case_Contact' under 'Contact'. The main area has fields for 'Client Name' (Apple), 'First Name', and 'Last Name'. A tooltip for 'Last Name' states: 'This is a required attribute. This holds the last name of a contact with a given client.' A 'Create' button is at the bottom right.

Case Contact Form



The screenshot shows the 'Case_Contact entry' page. The left sidebar includes 'Case_Contact' under 'Contact'. The main area has fields for 'Case Description' (Case may be dismissed) and 'Contact Name' (Daniel Repends). A tooltip for 'Case Description' states: 'This is a required attribute. This holds the description of a case that exists.' A 'Create' button is at the bottom right.



The screenshot shows the 'Case_Contact entry' page. The left sidebar includes 'Case_Contact' under 'Contact'. The main area has fields for 'Case Description' (Case may be dismissed) and 'Contact Name' (Daniel Repends). A tooltip for 'Contact Name' states: 'This is a required attribute. This holds the contact name of a contact that exists.' A 'Create' button is at the bottom right.

Phone Form

The screenshot shows a 'Phone' form in a 'Database consultants' application. The left sidebar includes links for Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main area has fields for 'Contact name' (set to 'Delilah Aswell'), 'Phone Type', and 'Phone Number'. A validation error message box is displayed over the 'Phone Number' field, stating: 'Contact name' is a required attribute. This is the contact name of a given contact.

The screenshot shows a 'Phone' form in a 'Database consultants' application. The left sidebar includes links for Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main area has fields for 'Contact name' (set to 'Delilah Aswell'), 'Phone Type', and 'Phone Number'. A validation error message box is displayed over the 'Phone Type' field, stating: 'Phone Type' is a phone type for a given phone number.

The screenshot shows a 'Phone' form in a 'Database consultants' application. The left sidebar includes links for Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main area has fields for 'Contact name' (set to 'Delilah Aswell'), 'Phone Type', and 'Phone Number'. A validation error message box is displayed over the 'Phone Number' field, stating: 'Phone Number' is a required attribute. This is the phone number of a given contact.

Log Form

The screenshot shows a 'Log Form' interface. On the left is a navigation sidebar with 'Database consultants' at the top, followed by 'Home', 'Lawyer', 'Specialty', 'Client', 'Cases', 'Contact', 'Phone', 'Log', and 'Calender'. The 'Log' item is currently selected. The main area has a breadcrumb trail 'Home \ Log \'. The form title is 'Log Form'. It contains several fields: 'Lawyer Id' (set to 'Leonard Black'), 'Case Id' (set to 'Case Apple v. Epic'), 'Log Date' (highlighted with a red border), 'Time Spent' (empty), 'Work Done' (empty), and a 'Create' button at the bottom right.

This screenshot is identical to the one above, except the 'Case Id' field is now highlighted with a red border instead of 'Log Date'. All other elements, including the navigation sidebar, form title, and buttons, remain the same.

This screenshot is identical to the previous ones, except the 'Log Date' field is now highlighted with a red border. The rest of the form and sidebar are consistent with the earlier versions.

The screenshot shows the 'Log Form' page in a software application. The left sidebar contains navigation links: Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The main area shows the 'Log Form' with fields for Lawyer Id (Leonard Black), Case Id (Case Apple v. Epic), and Log Date. A tooltip for 'Time Spent' indicates it holds the amount of time spent in hours that a lawyer has worked. There is also a 'Work Done' field and a 'Create' button.

This screenshot is identical to the one above, but the tooltip for the 'Time Spent' field has been removed, leaving only the 'Work Done' field and its description.

Calendar Form

The screenshot shows a 'Calendar Form' interface. On the left is a navigation sidebar with 'Database consultants' at the top, followed by 'Home', 'Lawyer', 'Specialty', 'Client', 'Cases', 'Contact', 'Phone', 'Log', 'Calender', 'Appointments', and 'Lawyer Daily Schedule'. The 'Calender' item is currently selected. The main area is titled 'Form on CALENDAR'. It contains fields for 'Lawyer name' (set to 'Mark Smith'), 'Contact Name' (set to 'Daniel Repends'), 'Date Time' (a dropdown menu), 'Duration' (a dropdown menu), and 'Purpose' (a text area). A tooltip for 'Lawyer name' states: 'This is a required attribute. This is the name of an existing lawyer.' At the bottom are 'Cancel' and 'Create' buttons.

This screenshot is identical to the one above, except the dropdown menu for 'Contact Name' is now open, showing 'Contact Name' and 'Daniel Repends' as options. A tooltip for 'Contact Name' states: 'This is a required attribute. This is the contact name of a given contact.'

This screenshot is identical to the ones above, except the dropdown menu for 'Date Time' is now open, showing 'Date Time' and 'Daniel Repends' as options. A tooltip for 'Date Time' states: 'This is a required attribute. This is the date of the scheduled appointment with time.'

The screenshot shows a 'Calendar Form' window. On the left is a navigation sidebar with links like Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calender. The 'Calender' link is currently selected. The main area has a title 'Form on CALENDAR'. It contains fields for 'Lawyer name' (Mark Smith), 'Contact Name' (Daniel Repends), 'Date Time', and 'Duration'. A tooltip for 'Duration' explains it as 'This is the amount of time (in hours) that the scheduled meeting should take.' At the bottom are 'Cancel' and 'Create' buttons.

This screenshot is identical to the one above, but the 'Duration' field is replaced by a 'Purpose' field. A tooltip for 'Purpose' explains it as 'This is the description of the appointment a lawyer is participating in.' The rest of the form structure and buttons are the same.

Report Action Help (zoom in if needed)

Interactive Report Help

Interactive reports enable end users to customize reports. Users can alter the layout of report data by selecting columns, applying filters, highlighting, and sorting. Users can also define breaks, aggregations, charts, group bys, and add their own computations. Users can also set up a subscription so that an HTML version of the report will be emailed to them at a designated interval. Users can create multiple variations of a report and save them as named reports, for either public or private viewing.

The sections that follow summarize ways you can customize an interactive report. To learn more, see "Using Interactive Reports" in Oracle Application Express End User's Guide.

Search Bar

At the top of each report page is a search region. This region (or Search bar) provides the following features:

- Select columns icon enables you to identify which column to search (or all).
- Text area enables you to enter case insensitive search criteria (wild card characters are implied).
- Go button executes the search. Hitting the enter key will also execute the search when the cursor is in the search text area.
- Reports displays alternate default and saved private or public reports.
- Actions Menu enables you to customize a report. See the sections that follow.

Actions Menu

The Actions menu appears to the right of the Go button on the Search bar. Use this menu to customize an interactive report.

Select Columns

Used to modify the columns displayed. The columns on the right display. The columns on the left are hidden. You can reorder the displayed columns using the arrows on the far right. Computed columns are prefixed with **.

Filter

Focuses the report by adding or modifying the WHERE clause on the query. You can filter on a column or by row.

If you filter by column, select a column (it does not need to be one that displays), select a standard Oracle operator (=, !=, not in, between), and enter an expression to compare against. Expressions are case sensitive. Use % as a wild card (for example, STATE_NAME like A%).

If you filter by row, you can create complex WHERE clauses using column aliases and any Oracle functions or operators (for example, G = 'VA' or G = 'CA', where G is the alias for CUSTOMER_STATE).

Rows Per Page

Sets the number of records to display per page.

Format

Format enables you to customize the display of the report. Format contains the following submenu:

- Sort
- Control Break
- Highlight
- Compute
- Aggregate
- Chart
- Group By
- Pivot

Sort

Used to change the columns to sort on and determines whether to sort in ascending or descending order. You can also specify how to handle NULLs. The default setting always displays NULLs last or always display them first. The resulting sorting displays to the right of column headings in the report.

Control Break

Used to create a break group on one or several columns. This pulls the columns out of the interactive report and displays them as a master record.

Highlight

Enables you to define a filter. The rows that meet the filter criteria display as highlighted using the characteristics associated with the filter. Options include:

- Name is used only for display.
- Sequence identifies the sequence in which the rules are evaluated.
- Enabled identifies if a rule is enabled or disabled.
- Highlight Type identifies whether the row or cell should be highlighted. If Cell is selected, the column referenced in the Highlight Condition is highlighted.
- Background Color is the new color for the background of the highlighted area.
- Text Color is the new color for the text in the highlighted area.
- Highlight Condition defines your filter condition.

Compute

Enables you to add computed columns to your report. These can be mathematical computations (for example, HR\$_HOURS/14) or standard Oracle functions applied to existing columns. Some display as examples and others (such as TO_DATE) can also be used). Options include:

- Computation enables you to select a previously defined computation to edit.
- Column Heading is the column heading for the new column.
- Format Mask is an Oracle format mask to be applied to the column (for example,99999).
- Computation is the computation to be performed. Within the computation, columns are referenced using the aliases displayed.

Below computation, the columns in your query display with their associated alias. Clicking on the column name or alias includes them in the Computation. Next to Columns is a keypad. This keypad functions as a shortcut to commonly used keys. On the far right are Functions. The following example computation demonstrates how to display total compensation:

CASE WHEN A = 'SALES' THEN B + C ELSE B END
(where A is ORGANIZATION, B is SALARY and C is COMMISSION)

Aggregate

Aggregates are mathematical computations performed against a column. Aggregates display after each control break and at the end of the report within the column they are defined. Options include:

- Aggregation enables you to select a previously defined aggregation to edit.
- Function is the function to be performed (for example, SUM, MIN).
- Column is used to select the column to apply the mathematical function to. Only numeric columns display.

Chart

You can define one chart per saved report. Once defined, you can switch between the chart and report views using view icons on the Search bar. Options include:

- Chart Type identifies the chart type to include. Select from horizontal bar, vertical bar, pie, or line.
- Label enables you to select the column to be used as the label.
- Axis Title for Label is the title that displays on the axis associated with the column selected for Label. This is not available for pie chart.
- Value enables you to select the column to be used as the value. If your function is a COUNT, a value does not need to be selected.
- Axis Title for Value is the title that displays on the axis associated with the column selected for Value. This is not available for pie chart.
- Function is an optional function to be performed on the column selected for Value.
- Sort allows you to sort your result set.

Group By

You can define one Group By view per saved report. Once defined, you can switch between the group by and report views using view icons on the Search bar. To create a Group By view, you select:

- the columns on which to group.
- the columns to aggregate along with the function to be performed (average, sum, count, etc.)

Pivot

You can define one Pivot view per saved report. Once defined, you can switch between the pivot and report views using view icons on the Search bar. To create a Pivot view, you select:

Pivot
You can define one Pivot view per saved report. Once defined, you can switch between the pivot and report views using view icons on the Search bar. To create a Pivot view, you select:

- the columns on which to pivot
- the columns to display as rows
- the columns to aggregate along with the function to be performed (average, sum, count, etc.)

Flashback
A flashback query enables you to view the data as it existed at a previous point in time. The default amount of time that you can flashback is 3 hours (or 180 minutes) but the actual amount will differ for each database.

Save Report
Saves the customized report for future use. You provide a name and optional description and can make the report accessible to the public (that is, all users who can access the primary default report). You can save four types of interactive reports:

- Primary Report** (Developer Only). The Primary Default is the report that initially displays. Primary Default reports cannot be renamed or deleted.
- Alternative Report** (Developer Only). Enables developers to create multiple report layouts. Only developers can save, rename, or delete an Alternative Report.
- Public Report** (End user). Can be saved, renamed, or deleted by the end user who created it. Other users can view and save the layout as another report.
- Private Report** (End user). Only the end user that created the report can view, save, rename or delete the report.

If you save customized reports, a Reports selector displays in the Search bar to the left of the Rows selector (if this feature is enabled).

Reset
Resets the report back to the default settings, removing any customizations that you have made.

Download
Enables the current result set to be downloaded. The download formats differ depending upon your installation and report definition but may include CSV, HTML, Email, XLS, PDF, or RTF.

Column Heading Menu
Clicking on any column heading exposes a column heading menu. Options include:

- Sort Ascending icon sorts the report by the column in ascending order.
- Sort Descending icon sorts the report by the column in descending order.
- Hide Column hides the column. Not all columns can be hidden. If a column cannot be hidden, there will be no Hide Column icon.
- Column Information displays help text about the column, if available.
- Text Area is used to enter case insensitive search criteria (no need for wild cards). Entering a value reduces the list of values at the bottom of the menu. You can then select a value from the bottom and the selected value will be created as a filter using '`=`' (for example, `column = 'ABC'`). Alternatively, you can click the Flashlight icon and enter a value to be created as a filter with the `LIKE` modifier (for example, `column LIKE 'ABC'`).
- List of Unique Values contains the first 500 unique values that meets your filter criteria. If the column is a date, a list of date ranges is displayed instead. If you select a value, a filter will be created using '`=`' (for example, `column = 'ABC'`).

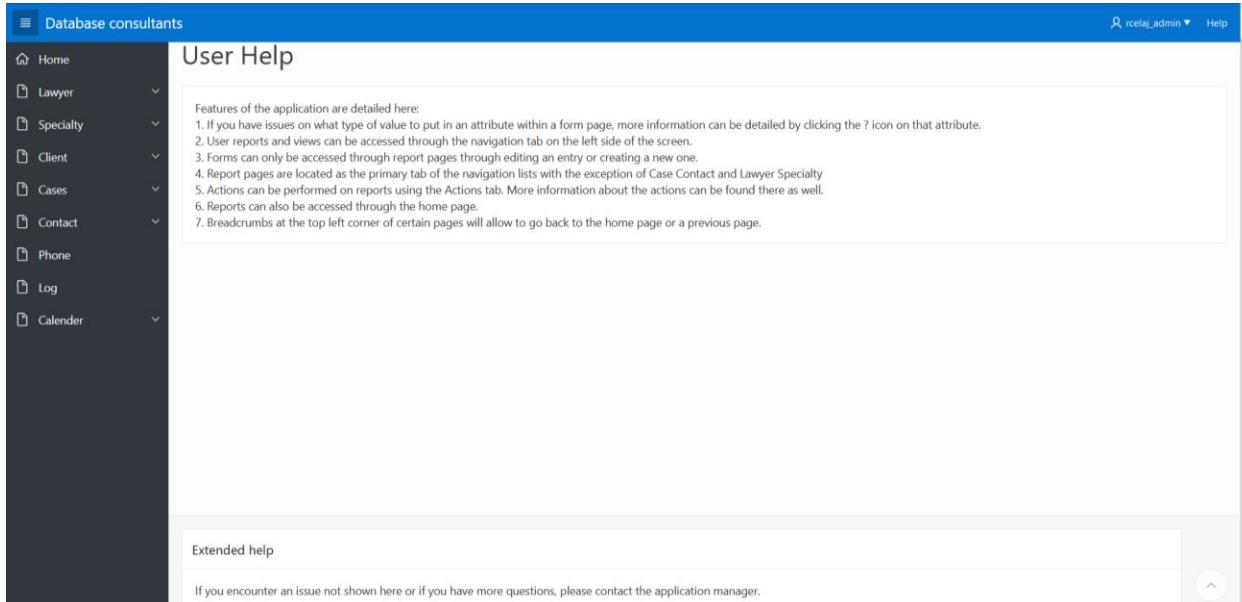
Report Settings
If you customize an interactive report, the report settings display below the Search bar and above the report. This area can be collapsed and expanded using the icon on the left.

For each report setting, you can:

- Edit a setting by clicking the name.
- Disable/Enable a setting by unchecking or checking the Enable/Disable check box. Use this control to temporarily turn a setting off and on.
- Remove a setting by clicking the Remove icon.

If you have created a chart, group by or pivot, you can toggle between them and the base report using the Report View, Chart View, Group By View, and Pivot View links shown on the right. If you are viewing the chart, group by or pivot, you can also use the Edit link to edit the settings.

Help on Navigation Bar List (top right)



The screenshot shows a web-based application interface. On the left, there is a vertical navigation bar with the following items:

- Database consultants
- Home
- Lawyer
- Specialty
- Client
- Cases
- Contact
- Phone
- Log
- Calender

The main content area has a title "User Help". It contains the following text:

Features of the application are detailed here:

- If you have issues on what type of value to put in an attribute within a form page, more information can be detailed by clicking the ? icon on that attribute.
- User reports and views can be accessed through the navigation tab on the left side of the screen.
- Forms can only be accessed through report pages through editing an entry or creating a new one.
- Report pages are located as the primary tab of the navigation lists with the exception of Case Contact and Lawyer Specialty
- Actions can be performed on reports using the Actions tab. More information about the actions can be found there as well.
- Reports can also be accessed through the home page.
- Breadcrumbs at the top left corner of certain pages will allow to go back to the home page or a previous page.

Below this, there is a section titled "Extended help" with the following text:

If you encounter an issue not shown here or if you have more questions, please contact the application manager.

User Error Screen

Lawyer Form

The screenshot shows a 'Create/edit Lawyer' form. On the left is a navigation sidebar with 'Lawyer' selected. The main area has fields for 'First Name' (with error message 'Please fill out this field.') and 'Last Name' (with error message 'Please fill out this field.'). A modal dialog box in the center says 'Correct errors before saving.' with 'OK' and 'Cancel' buttons.

Specialty Form

The screenshot shows a 'Create/edit Specialty' form. On the left is a navigation sidebar with 'Specialty' selected. The main area has a 'Description' field (with error message 'Please fill out this field.'). A modal dialog box in the center says 'Correct errors before saving.' with 'OK' and 'Cancel' buttons.

Client Form

The screenshot shows a 'Create/edit Client' form. On the left is a navigation sidebar with 'Client' selected. The main area has a 'Client Name' field (with error message 'Please fill out this field.'). A modal dialog box in the center says 'Correct errors before saving.' with 'OK' and 'Cancel' buttons.

Lawyer Specialty Form

The screenshot shows a 'Lawyer specialty Entry' form under the 'Lawyer specialty' section of the navigation menu. The form contains fields for 'Lawyer Name' (Black, Leonard) and 'Specialty' (Corporation). A yellow warning box at the top right indicates '1 error has occurred' with the message 'Lawyer already has selected specialty.' A 'Create' button is visible at the bottom right.

Case Form

The screenshot shows a 'Case' form under the 'Cases' section of the navigation menu. The 'Lawyer Name' field is populated with Daniel Jackson. A modal dialog box is centered over the form, displaying the message 'Please fill out this field.' and 'Correct errors before saving.' with an 'OK' button. The form also includes fields for 'Description', 'Total Cost', 'Begin Date', 'Required Completion Date', and 'Close Date'. A 'Create' button is located at the bottom right.

Contact Form

The screenshot shows a 'Contact Form' under the 'Contact' section of the navigation menu. The 'Client Name' field is populated with Apple. A modal dialog box is centered over the form, displaying the message 'Please fill out this field.' and 'Correct errors before saving.' with an 'OK' button. The form also includes fields for 'First Name' and 'Last Name'. A 'Create' button is located at the bottom right.

Case Contact Form

The screenshot shows the 'Case_Contact entry' form for the 'CASE_CONTACT' entity. The left sidebar includes 'Home', 'Lawyer', 'Specialty', 'Client', 'Cases', 'Contact' (selected), 'Phone', 'Log', and 'Calender'. The main area displays fields for 'Case Description' (containing 'Case may be dismissed') and 'Contact Name' (containing 'Micheal Corleone'). A yellow warning bar at the top right states '1 error has occurred' with the message 'The case has the selected contact'.

Phone Form

The screenshot shows the 'Phone' form. The left sidebar includes 'Home', 'Lawyer', 'Specialty', 'Client', 'Cases', 'Contact', 'Phone' (selected), 'Log', and 'Calender'. The main area displays fields for 'Contact name' (containing 'Delilah Aswell') and 'Phone Type'. A modal dialog box in the center says 'Correct errors before saving.' and 'Please fill out this field.' An error message 'Phone Number' is highlighted with a red border. A blue 'OK' button is at the bottom of the dialog.

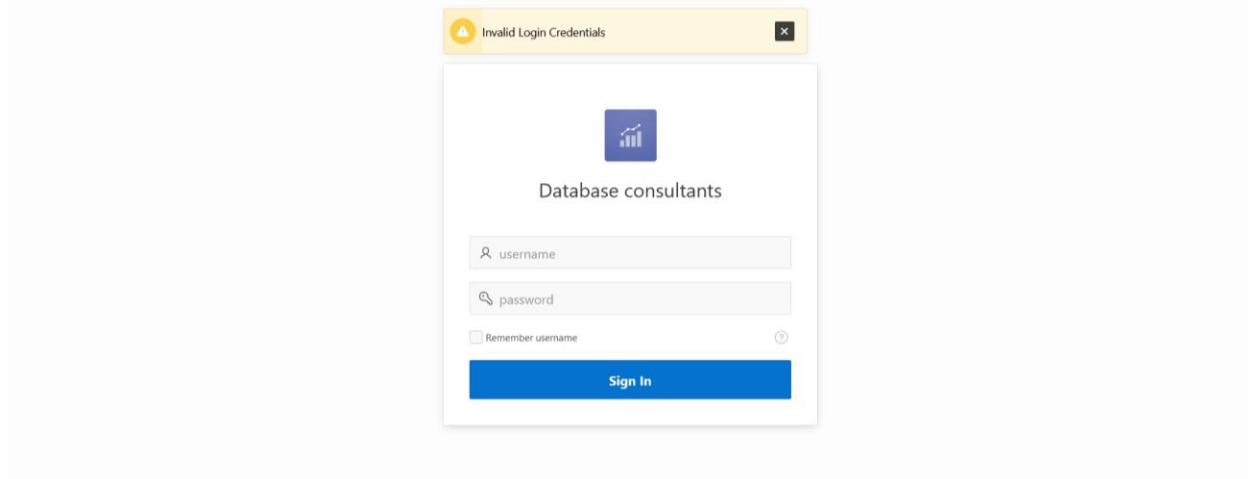
Log Form

The screenshot shows the 'Log Form' for the 'LOG' entity. The left sidebar includes 'Home', 'Lawyer', 'Specialty', 'Client', 'Cases', 'Contact', 'Phone', 'Log' (selected), and 'Calender'. The main area displays fields for 'Lawyer Id' (containing 'Leonard Black'), 'Case Id' (containing 'Case Apple v. Epic'), and 'Log Date'. A modal dialog box in the center says 'Correct errors before saving.' and 'Please fill out this field.' An error message 'Log Date' is highlighted with a red border. A blue 'OK' button is at the bottom of the dialog.

Calendar Form

The screenshot shows a 'Calendar Form' page within a software application. The left sidebar contains navigation links for Home, Lawyer, Specialty, Client, Cases, Contact, Phone, Log, and Calendar. The main area displays a form titled 'Form on CALENDAR' with fields for Lawyer name (Mark Smith), Contact Name (Daniel Repends), Date Time (highlighted with a red border), Duration, and Purpose. A validation message box is overlaid on the form, stating 'Correct errors before saving.' and 'Please fill out this field.' An 'OK' button is visible in the message box. At the bottom of the form are 'Cancel' and 'Create' buttons.

Login Screen



LAWYER

TABLE DESCRIPTION

This table contains information for lawyers of DBC.

OTHER TABLES REFERENCED

N/A

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
LAWYER_ID	Lawyer number	NUMBER	5	9999	1-9999	YES	PK	Unique
FIRST_NAME	Lawyer first name	VARCHAR2	50	X(50)	N/A	YES	N/A	N/A
LAST_NAME	Lawyer last name	VARCHAR2	50	X(50)	N/A	YES	N/A	N/A
BILL_RATE	Lawyer billing rate	NUMBER	6	9999.99	0000.01-9999.99	NO	N/A	N/A
PAY_RATE	Lawyer pay rate	NUMBER	8	99,999,999	45,000-99,999,99	NO	N/A	N/A

SPECIAL RESTRICTIONS

SPECIALTY

TABLE DESCRIPTION

This table contains basic information on lawyer specialties.

OTHER TABLES REFERENCED

N/A

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
SPECIALTY_ID	Specialty number	NUMBER	3	999	1-999	YES	PK	Unique
DESCRIPTION	Description of specialty	VARCHA R2	500	X(500)	N/A	YES	N/A	N/A

SPECIAL RESTRICTIONS

Specialty descriptions are subject to change by management.

LAWYER_SPECIALTY

TABLE DESCRIPTION

This table keeps track of which lawyers have which specialties. This covers the many to many relationship between lawyer and specialty.

OTHER TABLES REFERENCED

LAWYER, SPECIALTY

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
LAWYER_ID	Lawyer number	NUMBER	5	9999	1-9999	YES	PK, FK	LAWYER
SPECIALTY_ID	Specialty number	NUMBER	3	999	1-999	YES	PK, FK	SPECIALTY

SPECIAL RESTRICTIONS

Lawyer can only get/add a specialty once approved by management.

CLIENT

TABLE DESCRIPTION

This table contains information for clients that have lawyers under DBC.

OTHER TABLES REFERENCED

N/A

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
CLIENT_ID	Client number	NUMBER	5	99999	1-9999	YES	PK	Unique
CLIENT_NAME	Client name	VARCHAR2	50	X(50)	N/A	YES	N/A	N/A
STREET_ADDRESS	Street address of client	VARCHAR2	50	X(50)	N/A	YES	N/A	N/A
CITY	City of client	VARCHAR2	30	X(30)	N/A	NO	N/A	N/A
STATE	State of client	VARCHAR2	20	X(20)	N/A	NO	N/A	N/A
ZIPCODE	Zip code for client	VARCHAR2	5	X(5)	N/A	YES	N/A	N/A

SPECIAL RESTRICTIONS

Make sure zip code and street address are real for each client.

CONTACT

TABLE DESCRIPTION

This table contains contact information for clients.

OTHER TABLES REFERENCED

CLIENT

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
CONTACT_ID	Contact number	NUMBER	3	999	1-999	YES	PK	Unique
CLIENT_ID	Client number	NUMBER	5	99999	1-99999	YES	FK	CLIENT
FIRST_NAME	First name of contact	VARCHAR2	50	X(50)	N/A	NO	N/A	N/A
LAST_NAME	Last name of contact	VARCHAR2	50	X(50)	N/A	YES	N/A	N/A

SPECIAL RESTRICTIONS

PHONE

TABLE DESCRIPTION

This table contains phone information for contacts.

OTHER TABLES REFERENCED

CONTACT

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
PHONE_ID	Phone number	NUMBER	3	999	1-999	YES	PK	Unique
CONTACT_ID	Contact number	NUMBER	5	99999	1-99999	YES	FK	CONTACT
PHONE_TYPE	Type of phone used	VARCHAR2	20	X(20)	N/A	NO	N/A	N/A
PHONE_NUMBER	Number of telephone	VARCHAR2	15	X(15)	N/A	YES	N/A	N/A

SPECIAL RESTRICTIONS

Phone does not need phone type if it is the only phone for contact.

CASE_CONTACT

TABLE DESCRIPTION

This table keeps track of which cases have the contact information from contacts. This is a placeholder for their many to many relationship.

OTHER TABLES REFERENCED

CASE, CONTACT

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
CASE_ID	Case number	NUMBER	5	99999	1-99999	YES	PK, FK	CASE
CONTACT_ID	Contact number	NUMBER	3	999	1-999	YES	PK, FK	SPECIALTY

SPECIAL RESTRICTIONS

CASE

TABLE DESCRIPTION

This table contains information on cases that lawyers undertake.

OTHER TABLES REFERENCED

LAWYER

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
CASE_ID	Case number	NUMBER	5	99999	1-99999	YES	PK	Unique
LAWYER_ID	Lawyer number	NUMBER	5	99999	1-99999	YES	FK	LAWYER
DESCRIPTION	Summary of case	VARCHARA R2	500	X(500)	N/A	YES	N/A	N/A
TOTAL_COST	Total cost of case	NUMBER	8	99999999	1- 99999999	NO	N/A	N/A
BEGIN_DATE	Beginning date of case	DATE	7	DD-MM- YYYY	N/A	YES	N/A	N/A
REQUIRED_COMPLETION_DATE	Date that case needs to be completed	DATE	7	DD-MM- YYYY	N/A	YES	N/A	N/A
CLOSE_DATE	Date case is completed	DATE	7	DD-MM- YYYY	N/A	NO	N/A	N/A

SPECIAL RESTRICTIONS

LOG

TABLE DESCRIPTION

This table contains information on logs that lawyers record for each case.

OTHER TABLES REFERENCED

LAWYER, CASE

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
LOG_ID	Log number	NUMBER	5	99999	1-99999	YES	PK	Unique
LAWYER_ID	Lawyer number	NUMBER	5	99999	1-99999	YES	FK	LAWYER
CASE_ID	Lawyer number	NUMBER	5	99999	1-99999	YES	FK	CASE
LOG_DATE	Date of log	DATE	7	DD-MM-YYYY	N/A	YES	N/A	N/A
TIME_SPENT	Number of hours spent on case for the lawyer	NUMBER	3	999	1-999	NO	N/A	N/A
WORK_DONE	Summary of work done in that period	VARCHAR	500	X(500)	N/A	NO	N/A	N/A

SPECIAL RESTRICTIONS

CALENDAR

TABLE DESCRIPTION

This table contains information on appointment that a lawyer attends.

OTHER TABLES REFERENCED

ATTRIBUTE NAME	CONTENTS	TYPE	LEN GTH	FORMAT	RANGE	REQ'D	KEY	REFERENCED TABLE
APPOINTMENT_ID	Calendar number	NUMBER	5	99999	1-99999	YES	PK	Unique
LAWYER_ID	Lawyer number	NUMBER	5	99999	1-99999	YES	FK	LAWYER
CONTACT_ID	Contact number	NUMBER	5	99999	1-99999	YES	FK	CONTACT
DATE_TIME	Date of log	DATE	7	DD-MM- YYYY HH:MM	N/A	YES	N/A	N/A
DURATION	How long the meeting is in hours	NUMBER	2	99	1-99	NO	N/A	N/A
PURPOSE	Reason why meeting is taking place	VARCHAR	500 R2	X(500)	N/A	YES	N/A	N/A

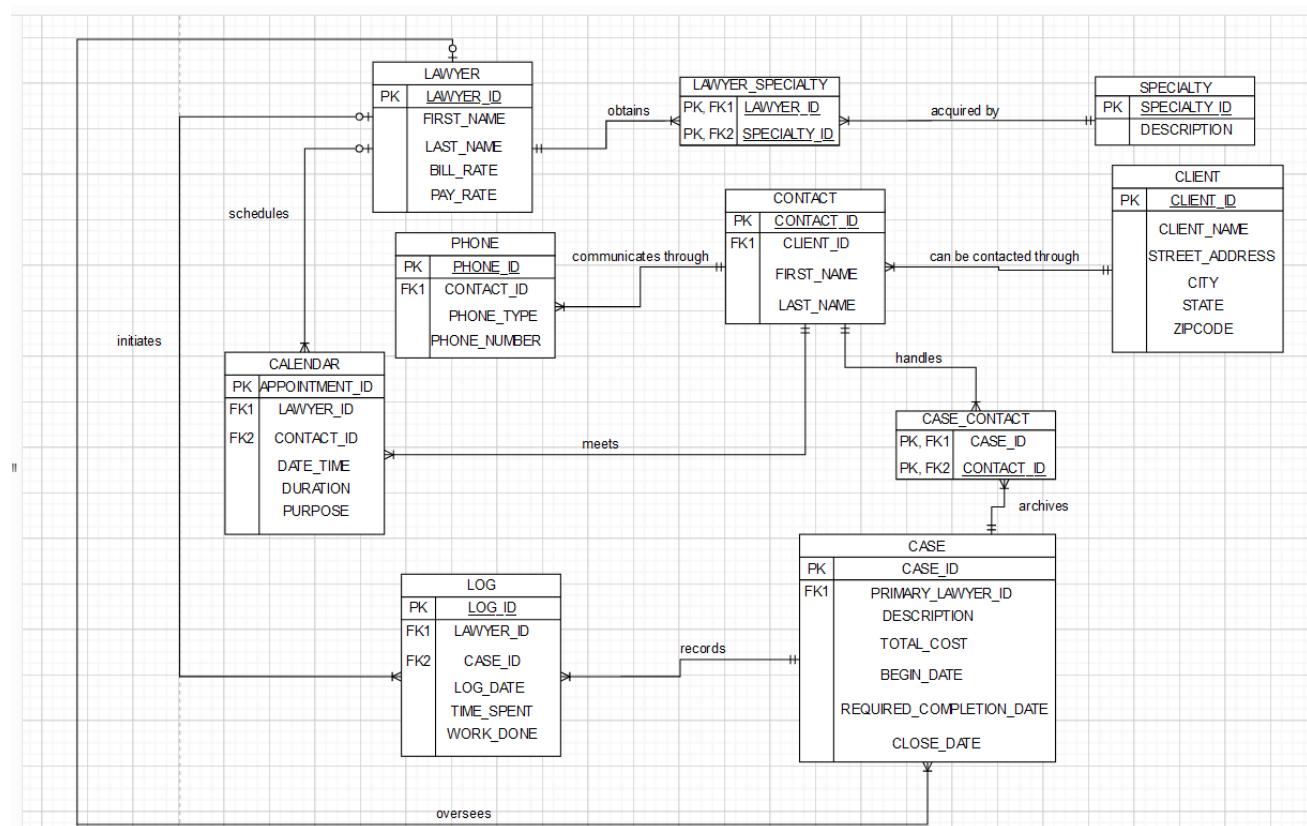
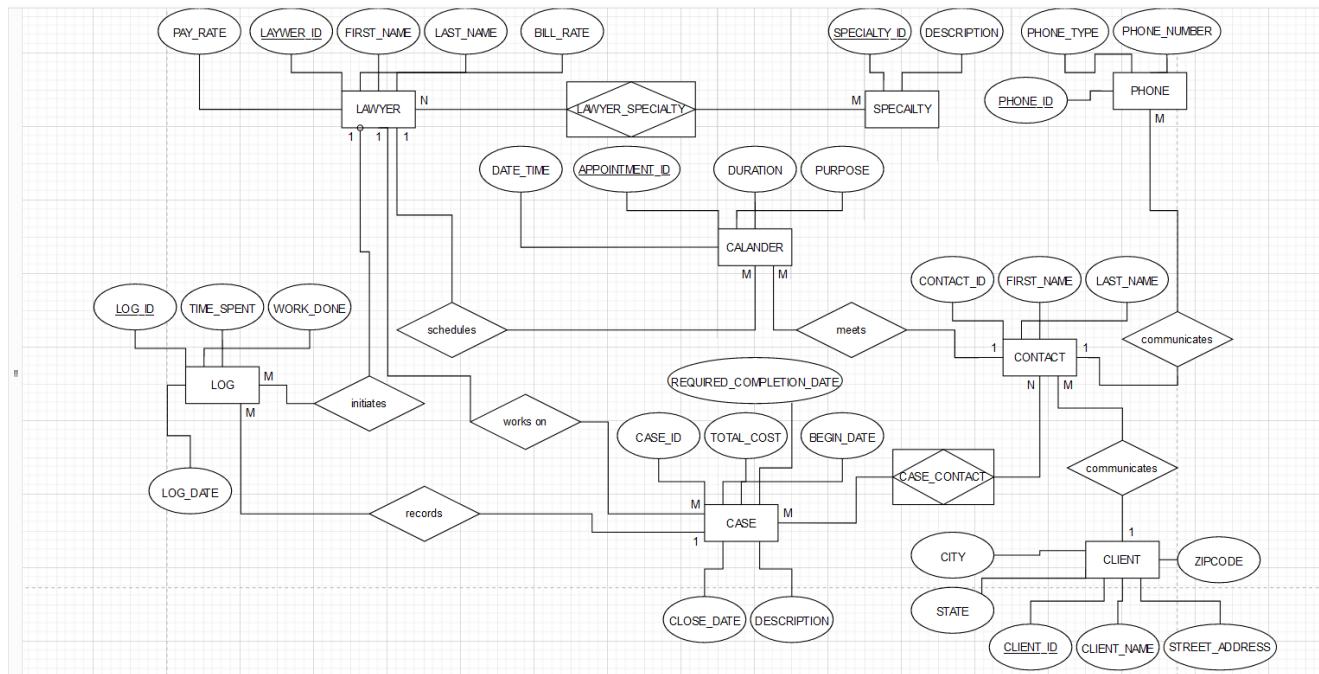
LAWYER, CONTACT

SPECIAL RESTRICTIONS

Written description of relationships between objects

1. A Lawyer can have many Specialties, and each Specialty may be undertaken by many lawyers.
2. Each Client may contain many Contacts, and a Contact must be obtained by one Client.
3. One Contact may have many Phones, but each Phone has one Contact.
4. Each Contact can be recorded in many Cases, and one Case can have many Contacts.
5. One Case must have one primary Lawyer, and a Lawyer may be a primary to many Cases.
6. One Log records many Lawyers, and one Lawyer may have many Logs.
7. One Log records many Cases, and one Case can have many Logs.
8. A Calendar can have many Lawyers, and one Lawyer may have many Calendars.
9. Each Calendar may have many Contacts, and one Contact can have many Calendars.

Crow's Foot and Chen ERD



DMBS Table Structure

Lawyer

Column Name	Data Type	Nullable	Default	Primary Key
LAWYER_ID	NUMBER(3,0)	No		1
FIRST_NAME	VARCHAR2(50)	Yes		
LAST_NAME	VARCHAR2(50)	Yes		
BILL_RATE	NUMBER(6,2)	Yes		
PAY_RATE	NUMBER(8,0)	Yes		

Specialty

Column Name	Data Type	Nullable	Default	Primary Key
SPECIALTY_ID	NUMBER(3,0)	No		1
DESCRIPTION	VARCHAR2(500)	No		

Client

Column Name	Data Type	Nullable	Default	Primary Key
CLIENT_ID	NUMBER(5,0)	No		1
CLIENT_NAME	VARCHAR2(50)	No		
STREET_ADDRESS	VARCHAR2(50)	Yes		
CITY	VARCHAR2(30)	Yes		
STATE	VARCHAR2(20)	Yes		
ZIPCODE	VARCHAR2(5)	Yes		

Contact

Column Name	Data Type	Nullable	Default	Primary Key
CONTACT_ID	NUMBER(3,0)	No		1
CLIENT_ID	NUMBER(5,0)	No		
FIRST_NAME	VARCHAR2(50)	Yes		
LAST_NAME	VARCHAR2(50)	No		

Phone

Column Name	Data Type	Nullable	Default	Primary Key
PHONE_ID	NUMBER(3,0)	No		1
CONTACT_ID	NUMBER(3,0)	No		
PHONE_TYPE	VARCHAR2(20)	Yes		
PHONE_NUMBER	VARCHAR2(15)	No		

Lawyer_Specialty

Column Name	Data Type	Nullable	Default	Primary Key
LAWYER_ID	NUMBER(3,0)	No		1
SPECIALTY_ID	NUMBER(3,0)	No		2

Cases

Column Name	Data Type	Nullable	Default	Primary Key
CASE_ID	NUMBER(5,0)	No		1
PRIMARY_LAWYER_ID	NUMBER(3,0)	No		
DESCRIPTION	VARCHAR2(500)	Yes		
TOTAL_COST	NUMBER(8,0)	Yes		
BEGIN_DATE	DATE	Yes		
REQUIRED_COMPLETION_DATE	DATE	Yes		
CLOSE_DATE	DATE	Yes		

Case_Contact

Column Name	Data Type	Nullable	Default	Primary Key
CASE_ID	NUMBER(5,0)	No		1
CONTACT_ID	NUMBER(3,0)	No		2

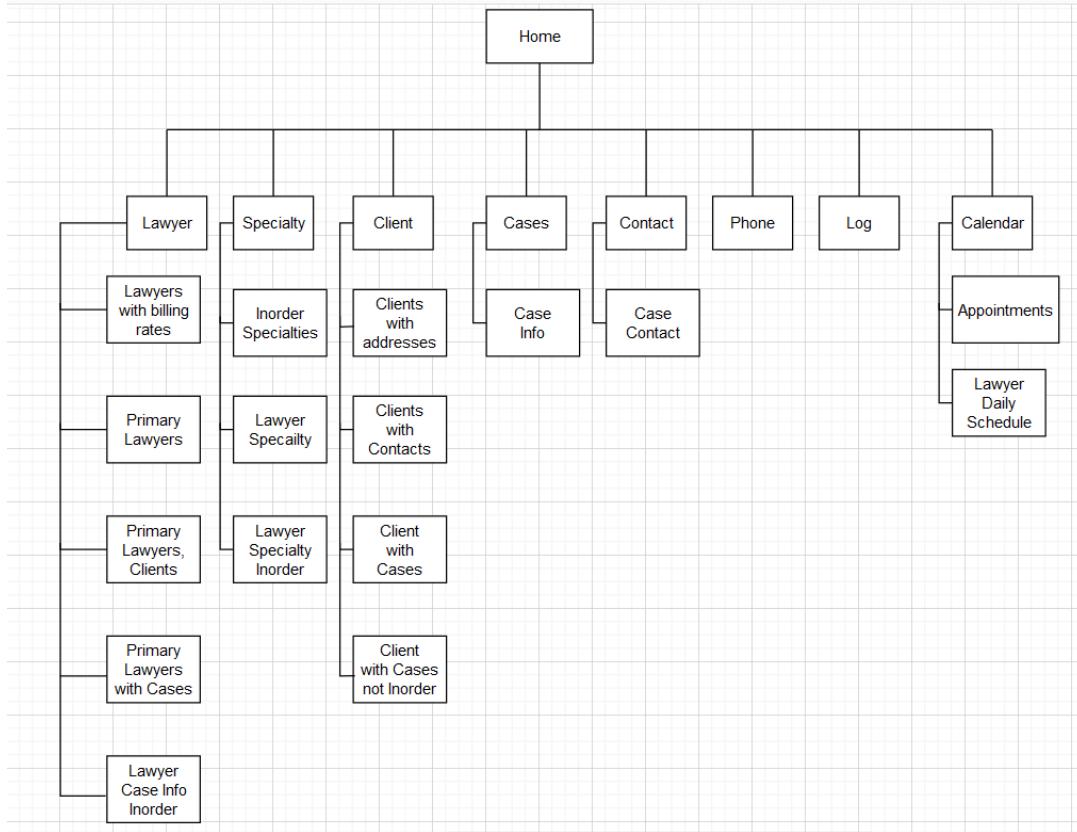
Calendar

Column Name	Data Type	Nullable	Default	Primary Key
APPOINTMENT_ID	NUMBER(5,0)	No		1
LAWYER_ID	NUMBER(3,0)	No		
CONTACT_ID	NUMBER(3,0)	No		
DATE_TIME	DATE	No		
DURATION	NUMBER(2,0)	Yes		
PURPOSE	VARCHAR2(500)	Yes		

Logs

Column Name	Data Type	Nullable	Default	Primary Key
LOG_ID	NUMBER(5,0)	No		1
LAWYER_ID	NUMBER(3,0)	Yes		
CASE_ID	NUMBER(5,0)	Yes		
LOG_DATE	DATE	Yes		
TIME_SPENT	NUMBER(3,0)	Yes		
WORK_DONE	VARCHAR2(500)	Yes		

Diagram of Program Structure



Printouts of SQL

Create Lawyers RC

```

CREATE TABLE LAWYER
(
  LAWYER_ID NUMBER(3)
  , FIRST_NAME VARCHAR2(50)
  , LAST_NAME VARCHAR2(50)
  , BILL_RATE NUMBER(6,2)
  , PAY_RATE NUMBER(8)
  , CONSTRAINT LAWYER_PK PRIMARY KEY (LAWYER_ID)
);
  
```

CREATE TABLE SPECIALTY

```
( SPECIALTY_ID NUMBER(3)
, DESCRIPTION VARCHAR2(500)
, CONSTRAINT SPECIALTY_PK PRIMARY KEY (SPECIALTY_ID)
);
```

```
CREATE TABLE LAWYER_SPECIALTY
( LAWYER_ID NUMBER(3)
, SPECIALTY_ID NUMBER(3)
, CONSTRAINT LAWYER_SPECIALTY_PK PRIMARY KEY (LAWYER_ID,
SPECIALTY_ID)
, CONSTRAINT LAWYER_SPECIALTY_LAWYER_FK FOREIGN KEY (LAWYER_ID)
REFERENCES LAWYER(LAWYER_ID)
, CONSTRAINT LAWYER_SPECIALTY_SPECIALTY_FK FOREIGN KEY
(SPECIALTY_ID) REFERENCES SPECIALTY(SPECIALTY_ID)
);
```

```
CREATE TABLE CLIENT
( CLIENT_ID NUMBER(5)
, CLIENT_NAME VARCHAR2(50)
, STREET_ADDRESS VARCHAR2(50)
, CITY VARCHAR2(30)
, STATE VARCHAR2(20)
, ZIPCODE VARCHAR2(5)
, CONSTRAINT CLIENT_PK PRIMARY KEY (CLIENT_ID)
);
```

```
CREATE TABLE CONTACT
( CONTACT_ID NUMBER(3)
, CLIENT_ID NUMBER(5)
```

```
, FIRST_NAME VARCHAR2(50)
, LAST_NAME VARCHAR2(50)
, CONSTRAINT CONTACT_PK PRIMARY KEY (CONTACT_ID)
, CONSTRAINT CONTACT_CLIENT_FK FOREIGN KEY (CLIENT_ID) REFERENCES
CLIENT(CLIENT_ID)
);
```

```
CREATE TABLE PHONE
( PHONE_ID NUMBER(3)
, CONTACT_ID NUMBER(3)
, PHONE_TYPE VARCHAR2(20)
, PHONE_NUMBER VARCHAR2(15)
, CONSTRAINT PHONE_PK PRIMARY KEY (PHONE_ID)
, CONSTRAINT PHONE_CONTACT_FK FOREIGN KEY (CONTACT_ID) REFERENCES
CONTACT(CONTACT_ID)
);
```

```
CREATE TABLE CASES
( CASE_ID NUMBER(5)
, PRIMARY_LAWYER_ID NUMBER(3)
, DESCRIPTION VARCHAR2(500)
, TOTAL_COST NUMBER(8)
, BEGIN_DATE DATE
, REQUIRED_COMPLETION_DATE DATE
, CLOSE_DATE DATE
, CONSTRAINT CASE_PK PRIMARY KEY (CASE_ID)
, CONSTRAINT CASE_LAWYER_FK FOREIGN KEY (PRIMARY_LAWYER_ID)
REFERENCES LAWYER(LAWYER_ID)
);
```

```
CREATE TABLE CASE_CONTACT
( CASE_ID NUMBER(5)
, CONTACT_ID NUMBER(3)
, CONSTRAINT CASE_CONTACT_PK PRIMARY KEY (CASE_ID, CONTACT_ID)
, CONSTRAINT CASE_CONTACT_CASE_FK FOREIGN KEY (CASE_ID) REFERENCES
CASES(CASE_ID)
, CONSTRAINT CASE_CONTACT_CONTACT_FK FOREIGN KEY (CONTACT_ID)
REFERENCES CONTACT(CONTACT_ID)
);
```

```
CREATE TABLE LOGS
( LOG_ID NUMBER(5)
, LAWYER_ID NUMBER(3)
, CASE_ID NUMBER(5)
, LOG_DATE DATE
, TIME_SPENT NUMBER(3)
, WORK_DONE VARCHAR2(500)
, CONSTRAINT LOG_PK PRIMARY KEY (LOG_ID)
, CONSTRAINT LOG_LAWYER_FK FOREIGN KEY (LAWYER_ID) REFERENCES
LAWYER(LAWYER_ID)
, CONSTRAINT LOG_CASE_FK FOREIGN KEY (CASE_ID) REFERENCES
CASES(CASE_ID)
);
```

```
CREATE TABLE CALENDAR
( APPOINTMENT_ID NUMBER(5)
, LAWYER_ID NUMBER(3)
, CONTACT_ID NUMBER(3)
, DATE_TIME DATE
```

```
, DURATION NUMBER(2)
, PURPOSE VARCHAR2(500)
, CONSTRAINT CALENDAR_PK PRIMARY KEY (APPOINTMENT_ID)
, CONSTRAINT CALENDAR_LAWYER_FK FOREIGN KEY (LAWYER_ID)
REFERENCES LAWYER(LAWYER_ID)
, CONSTRAINT CALENDAR_CONTACT_FK FOREIGN KEY (CONTACT_ID)
REFERENCES CONTACT(CONTACT_ID)
);
```

```
CREATE SEQUENCE lawyer_seq      INCREMENT BY 1 START WITH 1;
CREATE SEQUENCE specialty_seq   INCREMENT BY 1 START WITH 1;
CREATE SEQUENCE client_seq     INCREMENT BY 1 START WITH 1;
CREATE SEQUENCE contact_seq    INCREMENT BY 1 START WITH 1;
CREATE SEQUENCE phone_seq      INCREMENT BY 1 START WITH 1;
CREATE SEQUENCE case_seq       INCREMENT BY 1 START WITH 1;
CREATE SEQUENCE log_seq        INCREMENT BY 1 START WITH 1;
CREATE SEQUENCE calendar_seq   INCREMENT BY 1 START WITH 1;
```

```
CREATE OR REPLACE TRIGGER INSERT_lawyer
BEFORE INSERT ON lawyer
FOR EACH ROW
DECLARE
  new_id number;
BEGIN
  SELECT lawyer_seq.nextval INTO new_id FROM dual;
  :new.lawyer_id := new_id;
END;
```

/

```
CREATE OR REPLACE TRIGGER INSERT_specialty
BEFORE INSERT ON specialty
FOR EACH ROW
DECLARE
    new_id number;
BEGIN
    SELECT specialty_seq.nextval INTO new_id FROM dual;
    :new.specialty_id := new_id;
END;
```

/

```
CREATE OR REPLACE TRIGGER INSERT_client
BEFORE INSERT ON client
FOR EACH ROW
DECLARE
    new_id number;
BEGIN
    SELECT client_seq.nextval INTO new_id FROM dual;
    :new.client_id := new_id;
END;
```

/

```
CREATE OR REPLACE TRIGGER INSERT_contact
BEFORE INSERT ON contact
FOR EACH ROW
DECLARE
```

```
new_id number;  
BEGIN  
    SELECT contact_seq.nextval INTO new_id FROM dual;  
    :new.contact_id := new_id;  
END;  
/  
  
CREATE OR REPLACE TRIGGER INSERT_phone
```

```
BEFORE INSERT ON phone  
FOR EACH ROW
```

```
DECLARE
```

```
new_id number;  
BEGIN  
    SELECT phone_seq.nextval INTO new_id FROM dual;  
    :new.phone_id := new_id;  
END;  
/  
  
CREATE OR REPLACE TRIGGER INSERT_case
```

```
BEFORE INSERT ON cases  
FOR EACH ROW
```

```
DECLARE
```

```
new_id number;  
BEGIN  
    SELECT case_seq.nextval INTO new_id FROM dual;  
    :new.case_id := new_id;  
END;  
/  


---


```

```
CREATE OR REPLACE TRIGGER INSERT_log
BEFORE INSERT ON logs
FOR EACH ROW
DECLARE
    new_id number;
BEGIN
    SELECT log_seq.nextval INTO new_id FROM dual;
    :new.log_id := new_id;
END;
/
```

```
CREATE OR REPLACE TRIGGER INSERT_calendar
BEFORE INSERT ON calendar
FOR EACH ROW
DECLARE
    new_id number;
BEGIN
    SELECT calendar_seq.nextval INTO new_id FROM dual;
    :new.appointment_id := new_id;
END;
/
```

-- 1. List all lawyers in alphabetic order with their annual salaries and billing rates.

```
CREATE VIEW VW_LAWYER_COSTS(LAST_NAME, FIRST_NAME, BILLING_RATE,
ANNUAL_SALARY) AS
SELECT LAST_NAME, FIRST_NAME, BILL_RATE, PAY_RATE
FROM LAWYER
ORDER BY LAST_NAME, FIRST_NAME;
```

-- 2. List all lawyers with a description of their specialties alphabetic order

```
CREATE VIEW VW_LAWYER_SPECIALTIES_INORDER(LAST_NAME, FIRST_NAME,  
DESCRIPTION) AS
```

```
SELECT LAST_NAME, FIRST_NAME, DESCRIPTION
```

```
FROM LAWYER, SPECIALTY, LAWYER_SPECIALTY
```

```
WHERE LAWYER.LAWYER_ID = LAWYER_SPECIALTY.LAWYER_ID and  
SPECIALTY.SPECIALTY_ID = LAWYER_SPECIALTY.SPECIALTY_ID
```

```
ORDER BY LAST_NAME, FIRST_NAME;
```

--3. List all clients with their address alphabetically

```
CREATE VIEW VW_CLIENT_ADDRESS_INORDER(CLIENT_NAME,  
STREET_ADDRESS, ZIPCODE, STATE, CITY) AS
```

```
SELECT CLIENT_NAME, STREET_ADDRESS, ZIPCODE, STATE, CITY
```

```
FROM CLIENT
```

```
ORDER BY CLIENT_NAME;
```

--4. List all specialties in alphabetical order

```
CREATE VIEW VW_SPECIALTY_INORDER(DESCRIPTION) AS
```

```
SELECT DESCRIPTION
```

```
FROM SPECIALTY
```

```
ORDER BY DESCRIPTION;
```

--5. List all lawyers in alphabetic order that are primary lawyers

```
CREATE VIEW VW_PRIMARY_LAWYERS_INORDER(LAST_NAME, FIRST_NAME,  
DESCRIPTION) AS
```

```
SELECT L.LAST_NAME, L.FIRST_NAME, DESCRIPTION
```

```
FROM LAWYER L, CASES C
```

```
WHERE L.LAWYER_ID = C.PRIMARY_LAWYER_ID
```

```
ORDER BY LAST_NAME, FIRST_NAME;
```

--6. List all clients with contacts and phone numbers in alphabetical order

```
CREATE VIEW VW_CLIENT_CONTACT_NUMBER_INORDER(CLIENT_NAME,
CONTACT_LAST_NAME, CONTACT_FIRST_NAME, PHONE_TYPE, PHONE_NUMBER)
AS
SELECT C.CLIENT_NAME, CT.LAST_NAME, CT.FIRST_NAME, P.PHONE_TYPE,
P.PHONE_NUMBER
FROM CLIENT C, CONTACT CT, PHONE P
WHERE C.CLIENT_ID = CT.CLIENT_ID and CT.CONTACT_ID = P.CONTACT_ID
ORDER BY C.CLIENT_NAME, CT.LAST_NAME;
```

--7. List all clients with their cases in alphabetical order

```
CREATE VIEW VW_CLIENT_CASES_INORDER(DESCRIPTION, TOTAL_COST,
BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE, CLIENT_NAME) AS
SELECT DESCRIPTION, TOTAL_COST, BEGIN_DATE,
REQUIRED_COMPLETION_DATE, CLOSE_DATE, CLIENT_NAME
FROM CLIENT C, CASES CS, CONTACT CT, CASE_CONTACT CST
WHERE CS.CASE_ID = CST.CASE_ID and CST.CONTACT_ID = CT.CONTACT_ID and
C.CLIENT_ID = CT.CLIENT_ID
ORDER BY CLIENT_NAME;
```

--8. List all appointments in time order with Lawyer and purpose

```
CREATE VIEW VW_APPOINTMENT_DAY_LAWYER(PURPOSE, DATE_TIME,
FIRST_NAME, LAST_NAME) AS
SELECT PURPOSE, DATE_TIME, FIRST_NAME, LAST_NAME
FROM LAWYER L, CALENDAR C
WHERE L.LAWYER_ID = C.LAWYER_ID
ORDER BY DATE_TIME;
```

--9. List all primary lawyers with their clients

```
CREATE VIEW VW_PRIMARY_LAWYER_CLIENT(FIRST_NAME, LAST_NAME,  
CLIENT_NAME, DESCRIPTION) AS  
  
SELECT L.FIRST_NAME, L.LAST_NAME, CLIENT_NAME, DESCRIPTION  
FROM LAWYER L, CASES C, CASE_CONTACT CST, CONTACT CT, CLIENT C  
WHERE L.LAWYER_ID = C.PRIMARY_LAWYER_ID and (C.CASE_ID = CST.CASE_ID  
and CST.CONTACT_ID = CT.CONTACT_ID and C.CLIENT_ID = CT.CLIENT_ID);
```

--10. List all cases with primary lawyer

```
CREATE VIEW VW_CASES_PRIMARY_LAWYER(DESCRIPTION, TOTAL_COST,  
BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE, FIRST_NAME,  
LAST_NAME) AS  
  
SELECT DESCRIPTION, TOTAL_COST, BEGIN_DATE,  
REQUIRED_COMPLETION_DATE, CLOSE_DATE, FIRST_NAME, LAST_NAME  
FROM CASES C, LAWYER L  
  
WHERE C.PRIMARY_LAWYER_ID = L.LAWYER_ID;
```

--11. List all clients with their cases

```
CREATE VIEW VW_CLIENT_CASES(CLIENT_NAME, DESCRIPTION, TOTAL_COST,  
BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE) AS  
  
SELECT CLIENT_NAME, DESCRIPTION, TOTAL_COST, BEGIN_DATE,  
REQUIRED_COMPLETION_DATE, CLOSE_DATE  
FROM CLIENT C, CASES CS, CONTACT CT, CASE_CONTACT CST  
WHERE CS.CASE_ID = CST.CASE_ID and CST.CONTACT_ID = CT.CONTACT_ID and  
C.CLIENT_ID = CT.CLIENT_ID;
```

--12. List a daily schedule for each lawyer

```
CREATE VIEW VW_LAWYER_SCHEDULE(FIRST_NAME, LAST_NAME, DATE_TIME,  
PURPOSE, DURATION, CLIENT_NAME) AS  
  
SELECT L.FIRST_NAME, L.LAST_NAME, DATE_TIME, PURPOSE, DURATION,  
CLIENT_NAME  
FROM LAWYER L, CALENDAR C, CONTACT CO, CLIENT CL
```

WHERE LLAWYER_ID = CLAWYER_ID and CCONTACT_ID = COCONTACT_ID and
CLCLIENT_ID = COCLIENT_ID;

--13. List all Case information

```
CREATE VIEW VW_CASE_INFO(CASE_ID, DESCRIPTION, CLIENT_NAME,  
PRIMARY_LAWYER, LOG_DATE, LAWYER_NAME, WORK_DONE, TIME_SPENT,  
BILLED_TIME) AS
```

```
SELECT distinct c.case_id, C.DESCRIPTION, CL.CLIENT_NAME, p.FIRST_NAME || ' ' ||  
p.LAST_NAME primary_lawyer, LO.LOG_DATE,  
L.FIRST_NAME || ' ' || L.LAST_NAME lawyer_name, LO.WORK_DONE, LO.TIME_SPENT,  
L.BILL_RATE * LO.TIME_SPENT
```

FROM lawyer p, LAWYER L, CASES C, LOGS LO, CASE_CONTACT CST, CONTACT CT,
CLIENT CL

```
WHERE C.Primary_LAWYER_ID = p.LAWYER_ID and l.lawyer_id = lo.lawyer_id and  
LO.CASE_ID = C.CASE_ID and C.CASE_ID = CST.CASE_ID and CST.CONTACT_ID =  
CT.CONTACT_ID and CT.CLIENT_ID = CL.CLIENT_ID;
```

--14. List all lawyers with case info along with total cost of case

```
CREATE VIEW VW_LAWYER_CASE_INFO_TOTAL_INORDER(LAWYER_NAME,  
BILLED_TIME, DESCRIPTION, CLIENT_NAME, DATE_WORKED, TOTAL_COST) AS
```

```
SELECT L.FIRST_NAME || ' ' || L.LAST_NAME, LO.TIME_SPENT * L.BILL_RATE,  
C.DESCRIPTION, CL.CLIENT_NAME, LO.LOG_DATE, C.TOTAL_COST
```

FROM LAWYER L, CASES C, LOGS LO, CASE_CONTACT CST, CONTACT CT, CLIENT
CL

```
WHERE LO.LAWYER_ID = L.LAWYER_ID and C.CASE_ID = CST.CASE_ID and  
CST.CONTACT_ID = CT.CONTACT_ID and CT.CLIENT_ID = CL.CLIENT_ID and  
C.CASE_ID = LO.CASE_ID
```

```
ORDER BY L.LAST_NAME, L.FIRST_NAME;
```

Insert Lawyer Data RC

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)  
VALUES ('Mark', 'Smith', 50.00, 120000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)  
VALUES ('Terry', 'White', 55.00, 135000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Jonathan', 'Murphy', 60.00, 150000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Daniel', 'Jackson', 70.00, 200000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Leonard', 'Black', 43.00, 125000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Rachel', 'Light', 30.00, 100000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Micheal', 'Corelone', 55.00, 200000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Sam', 'Pucket', 45.00, 135000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Spencer', 'Shay', 60.00, 160000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Shinu', 'Takamura', 60.00, 150000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Natalia', 'Sheldon', 45.00, 135000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Daniel', 'Radcliffe', 50.00, 150000.00);
```

```
INSERT INTO LAWYER (FIRST_NAME, LAST_NAME, BILL_RATE, PAY_RATE)
VALUES ('Ralph', 'London', 40.00, 120000.00);
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Real Estate');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Divorce');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Antitrust Law');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Civil');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Family');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Injury');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Corporation');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Tech');
```

```
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Government');  
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('International');  
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Small disputes');  
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Theft');  
INSERT INTO SPECIALTY (DESCRIPTION) VALUES ('Fraud');
```

```
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (1, 1);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (2, 1);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (2, 3);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (3, 2);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (4, 5);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (5, 7);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (6, 9);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (7, 5);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (8, 2);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (9, 10);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (10, 11);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (12, 8);  
INSERT INTO LAWYER_SPECIALTY (LAWYER_ID, SPECIALTY_ID) VALUES (13, 9);
```

```
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)  
VALUES ('Samsung', '8764 Seaseme Street', 'New York City', 'New York', '87654');  
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)  
VALUES ('Summers', '3723 Mark Street', 'Las Vegas', 'Nevada', '98764');  
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)  
VALUES ('Long', '9834 Dan Court', 'St. Louis', 'Missouri', '63184');  
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)  
VALUES ('Corelone', '9875 Merry Street', 'Housten', 'Texas', '87653');
```

```
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)
VALUES ('Apple', '8736 Malibu Lane', 'Los Angelous', 'California', '98743');
```

```
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)
VALUES ('Epic Games', '8623 63rd Street', 'New York City', 'New York', '87473');
```

```
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)
VALUES ('Equifax', '9874 Telegraph Road', 'St. Louis', 'Missouri', '63184');
```

```
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)
VALUES ('Harvard', '8743 Danny Street', 'Cambridge', 'Massachusetts', '43253');
```

```
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)
VALUES ('State of California', '8732 Rick Lane', 'San Diego', 'California', '89321');
```

```
INSERT INTO CLIENT (CLIENT_NAME, STREET_ADDRESS, CITY, STATE, ZIPCODE)
VALUES ('Tesla', '9821 Cherokee Street', 'Housten', 'Texas', '98432');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (1,
'Daniel', 'Repends');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (2,
'Mandy', 'Summers');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (3,
'Micheal', 'Corelone');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (4, 'Max',
'Stewart');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (5,
'Leonard', 'Maxwell');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (6, 'Mary',
'Light');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (7,
'Tiffany', 'Danders');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (8,
'Delilah', 'Aswell');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (9,
'Robert', 'Kellog');
```

```
INSERT INTO CONTACT (CLIENT_ID, FIRST_NAME, LAST_NAME) VALUES (10,
'Elon', 'Musk');
```

```
INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (1, 'Mobile', '937-234-9754');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (2, 'Mobile', '523-532-8321');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (3, 'Home', '632-732-1234');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (4, 'Work', '123-532-9312');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (5, 'Work', '972-125-2381');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (6, 'Mobile', '548-238-2134');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (7, 'Home', '156-984-7432');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (8, 'Mobile', '184-374-2874');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (9, 'Home', '753-234-8534');

INSERT INTO PHONE (CONTACT_ID, PHONE_TYPE, PHONE_NUMBER) VALUES (10, 'Home', '842-238-9743');

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)
VALUES (1, 'Case may be dismissed', 1000000, TO_DATE('11-16-2018', 'mm-dd-yyyy'), TO_DATE('7-18-2021', 'mm-dd-yyyy'), TO_DATE('5-16-2021', 'mm-dd-yyyy'));

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)
VALUES (2, 'Case Apple v. Epic', 10000000, TO_DATE('6-9-2020', 'mm-dd-yyyy'), TO_DATE('2-12-2023', 'mm-dd-yyyy'), TO_DATE('9-22-2022', 'mm-dd-yyyy'));

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)
VALUES (3, 'Case of Land v. Soundern in discovery', 9840000, TO_DATE('6-9-2020', 'mm-dd-yyyy'), TO_DATE('5-7-2022', 'mm-dd-yyyy'), TO_DATE('11-28-2021', 'mm-dd-yyyy'));
```

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)

VALUES (3, 'Case Pharma v. State of California', 30021, TO_DATE('2-12-2019', 'mm-dd-yyyy'), TO_DATE('3-8-2023', 'mm-dd-yyyy'), NULL);

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)

VALUES (4, 'Case Brown v. State of New York', 843200, TO_DATE('2-25-2018', 'mm-dd-yyyy'), TO_DATE('12-18-2020', 'mm-dd-yyyy'), TO_DATE('8-17-2020', 'mm-dd-yyyy'));

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)

VALUES (5, 'Case Daniel v. Samsung, case settled', 234200, TO_DATE('6-4-2017', 'mm-dd-yyyy'), TO_DATE('8-22-2020', 'mm-dd-yyyy'), TO_DATE('3-15-2020', 'mm-dd-yyyy'));

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)

VALUES (6, 'Case Travis Scott v. City of Houston', 244200, TO_DATE('11-10-2021', 'mm-dd-yyyy'), TO_DATE('5-27-2022', 'mm-dd-yyyy'), NULL);

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)

VALUES (7, 'Case Enron v. State of New York, closed', 72354200, TO_DATE('2-21-2008', 'mm-dd-yyyy'), TO_DATE('3-15-2012', 'mm-dd-yyyy'), TO_DATE('8-12-2011', 'mm-dd-yyyy'));

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)

VALUES (8, 'Case Mars v. Neztle', 534200, TO_DATE('5-21-2019', 'mm-dd-yyyy'), TO_DATE('4-15-2021', 'mm-dd-yyyy'), TO_DATE('3-18-2021', 'mm-dd-yyyy'));

INSERT INTO CASES (PRIMARY_LAWYER_ID, DESCRIPTION, TOTAL_COST, BEGIN_DATE, REQUIRED_COMPLETION_DATE, CLOSE_DATE)

VALUES (9, 'Case Lauren v. Paul, discovery', 23200, TO_DATE('1-11-2021', 'mm-dd-yyyy'), TO_DATE('2-3-2023', 'mm-dd-yyyy'), NULL);

INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (1, 3);

INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (1, 9);

INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (3, 2);

```
INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (3, 8);
```

```
INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (3, 6);
```

```
INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (2, 7);
```

```
INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (4, 8);
```

```
INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (4, 1);
```

```
INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (6, 10);
```

```
INSERT INTO CASE_CONTACT (CASE_ID, CONTACT_ID) VALUES (8, 4);
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (1, 3, TO_DATE('2-25-2020', 'mm-dd-yyyy'), 2, 'Motion to  
dismissed written and filed');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (3, 2, TO_DATE('1-12-2021', 'mm-dd-yyyy'), 3, 'Motion for  
discovery filed');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (3, 4, TO_DATE('7-7-2019', 'mm-dd-yyyy'), 1, 'Judge ordered  
ruling');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (5, 8, TO_DATE('9-6-2018', 'mm-dd-yyyy'), 5, 'Motion for discovery  
filed');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (6, 7, TO_DATE('1-8-2020', 'mm-dd-yyyy'), 8, 'Defendant ordered  
plea deal');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (2, 8, TO_DATE('7-5-2021', 'mm-dd-yyyy'), 3, 'Case dismissed');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (6, 2, TO_DATE('7-7-2020', 'mm-dd-yyyy'), 2, 'Jury decided on  
verdict');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (4, 2, TO_DATE('6-1-2019', 'mm-dd-yyyy'), 4, 'Motion for discovery  
filed');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (8, 6, TO_DATE('4-25-2021', 'mm-dd-yyyy'), 3, 'Jury decided on  
verdict');
```

```
INSERT INTO LOGS(LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT,  
WORK_DONE) VALUES (9, 7, TO_DATE('8-28-2020', 'mm-dd-yyyy'), 1, 'Court ordered to be  
on Zoom');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (1, 2, TO_DATE('2-12-2020 8:30 AM', 'mm-dd-yyyy HH:MI AM'), 4,  
'Discussed discovery details');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (3, 5, TO_DATE('6-5-2021 12:25 PM', 'mm-dd-yyyy HH:MI PM'), 2,  
'Negotiated on settlement');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (4, 7, TO_DATE('11-17-2020 11:45 AM', 'mm-dd-yyyy HH:MI AM'), 3,  
'Discussed defense details');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (6, 8, TO_DATE('6-5-2021 2:25 PM', 'mm-dd-yyyy HH:MI PM'), 1,  
'Discussed charges for client');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (4, 3, TO_DATE('7-11-2019 4:20 PM', 'mm-dd-yyyy HH:MI PM'), 2,  
'Discussed charges');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (7, 3, TO_DATE('6-8-2020 6:0 PM', 'mm-dd-yyyy HH:MI PM'), 4, 'Met  
with HR to discuss NDAs');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (8, 2, TO_DATE('11-17-2020 7:45 PM', 'mm-dd-yyyy HH:MI PM'), 2,  
'Planned discovery');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (9, 3, TO_DATE('6-5-2021 2:22 PM', 'mm-dd-yyyy HH:MI PM'), 3,  
'Explained charges');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (2, 6, TO_DATE('8-1-2021 9:15 AM', 'mm-dd-yyyy HH:MI AM'), 3,  
'Planned charges');
```

```
INSERT INTO CALENDAR(LAWYER_ID, CONTACT_ID, DATE_TIME, DURATION,  
PURPOSE) VALUES (2, 4, TO_DATE('6-6-2021 12:22 PM', 'mm-dd-yyyy HH:MI PM'), 3,  
'Negotiated plea');
```

COMMIT;

Delete Lawyer Data RC

```
DROP TABLE LAWYER_SPECIALTY;  
DROP TABLE CASE_CONTACT;  
DROP TABLE SPECIALTY;  
DROP TABLE LOGS;  
DROP TABLE CASES;  
DROP TABLE CALENDAR;  
DROP TABLE LAWYER;  
DROP TABLE PHONE;  
DROP TABLE CONTACT;  
DROP TABLE CLIENT;  
  
DROP SEQUENCE lawyer_seq;  
DROP SEQUENCE specialty_seq;  
DROP SEQUENCE client_seq;  
DROP SEQUENCE contact_seq;  
DROP SEQUENCE phone_seq;  
DROP SEQUENCE log_seq;  
DROP SEQUENCE case_seq;  
DROP SEQUENCE calendar_seq;  
  
DROP VIEW VW_LAWYER_COSTS;  
DROP VIEW VW_LAWYER_SPECIALTIES_INORDER;  
DROP VIEW VW_CLIENT_ADDRESS_INORDER;  
DROP VIEW VW_PRIMARY_LAWYERS_INORDER;  
DROP VIEW VW_CLIENT_CONTACT_NUMBER_INORDER;  
DROP VIEW VW_SPECIALTY_INORDER;  
DROP VIEW VW_CLIENT_CASES_INORDER;  
DROP VIEW VW_APPOINTMENT_DAY_LAWYER;
```

```
DROP VIEW VW_PRIMARY_LAWYER_CLIENT;  
DROP VIEW VW_CASES_PRIMARY_LAWYER;  
DROP VIEW VW_CLIENT_CASES;  
DROP VIEW VW_LAWYER_SCHEDULE;  
DROP VIEW VW_CASE_INFO;  
DROP VIEW VW_LAWYER_CASE_INFO_TOTAL_INORDER;
```

Print outs of Data

Lawyer

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various tables, with 'LAWYER' selected and highlighted in blue. The main area displays the 'LAWYER' table data in a grid format. The columns are labeled: EDIT, LAWYER_ID, FIRST_NAME, LAST_NAME, BILL_RATE, and PAY_RATE. The data consists of 13 rows, each representing a lawyer with their ID, name, and rates.

EDIT	LAWYER_ID	FIRST_NAME	LAST_NAME	BILL_RATE	PAY_RATE
1	1	Mark	Smith	50	120000
2	2	Terry	White	55	135000
3	3	Jonathan	Murphy	60	150000
4	4	Daniel	Jackson	70	200000
5	5	Leonard	Black	43	125000
6	6	Rachel	Light	30	100000
7	7	Micheal	Corelone	55	200000
8	8	Sam	Pucket	45	135000
9	9	Spencer	Shay	60	160000
10	10	Shinu	Takamura	60	150000
11	11	Natalia	Sheldon	45	135000
12	12	Daniel	Radcliffe	50	150000
13	13	Ralph	London	40	120000

Specialty

Final Report

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables, with 'SPECIALTY' selected. The main area displays the data for the 'SPECIALTY' table in a grid format.

	EDIT	SPECIALTY_ID	DESCRIPTION
1	1	Real Estate	
2	2	Divorce	
3	3	Antitrust Law	
4	4	Civil	
5	5	Family	
6	6	Injury	
7	7	Corporation	
8	8	Tech	
9	9	Government	
10	10	International	
11	11	Small disputes	
12	12	Theft	
13	13	Fraud	

Client

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables, with 'CLIENT' selected. The main area displays the data for the 'CLIENT' table in a grid format.

	EDIT	CLIENT_ID	CLIENT_NAME	STREET_ADDRESS	CITY	STATE	ZIPCODE
1	1	Samsung	8764 Seaside Street	New York City	New York		87654
2	2	Summers	3723 Mark Street	Las Vegas	Nevada		98764
3	3	Long	9834 Dan Court	St. Louis	Missouri		63184
4	4	Corelone	9875 Merry Street	Houston	Texas		87653
5	5	Apple	8736 Malibu Lane	Los Angeles	California		98743
6	6	Epic Games	8623 63rd Street	New York City	New York		87473
7	7	Equifax	9874 Telegraph Road	St. Louis	Missouri		63184
8	8	Harvard	8743 Danny Street	Cambridge	Massachusetts		43253
9	9	State of California	8732 Rick Lane	San Diego	California		89321
10	10	Tesla	9821 Cherokee Street	Houston	Texas		98432

Contact

Final Report

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables, with 'CONTACT' selected. The main area displays the 'CONTACT' table data in a grid format. The columns are labeled: EDIT, CONTACT_ID, CLIENT_ID, FIRST_NAME, and LAST_NAME. The data rows are as follows:

EDIT	CONTACT_ID	CLIENT_ID	FIRST_NAME	LAST_NAME
	1	1	Daniel	Reponds
	2	2	Mandy	Summers
	3	3	Michel	Corelone
	4	4	Max	Stewart
	5	5	Leonard	Maxwell
	6	6	Mary	Light
	7	7	Tiffany	Danders
	8	8	Delilah	Aswell
	9	9	Robert	Kellog
	10	10	Elon	Musk

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Application Express 18.2.0.0.12

Phone

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables, with 'PHONE' selected. The main area displays the 'PHONE' table data in a grid format. The columns are labeled: EDIT, PHONE_ID, CONTACT_ID, PHONE_TYPE, and PHONE_NUMBER. The data rows are as follows:

EDIT	PHONE_ID	CONTACT_ID	PHONE_TYPE	PHONE_NUMBER
	1	1	Mobile	937-234-9754
	2	2	Mobile	523-532-8321
	3	3	Home	632-732-1234
	4	4	Work	123-532-9312
	5	5	Work	972-125-2381
	6	6	Mobile	548-238-2134
	7	7	Home	156-984-7432
	8	8	Mobile	184-374-2874
	9	9	Home	753-234-8534
	10	10	Home	842-238-9743

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Lawyer Specialty

Final Report

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables, with 'LAWYER_SPECIALTY' selected and highlighted in blue. The main panel displays the data for the 'LAWYER_SPECIALTY' table in a grid format. The columns are labeled 'EDIT', 'LAWYER_ID', and 'SPECIALTY_ID'. The data consists of 13 rows, each containing a unique ID, a lawyer ID, and a specialty ID.

EDIT	LAWYER_ID	SPECIALTY_ID
1	1	1
2	2	1
2	2	3
3	3	2
4	4	5
5	5	7
6	6	9
7	7	5
8	8	2
9	9	10
10	10	11
12	12	8
13	13	9

Cases

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables, with 'CASES' selected and highlighted in blue. The main panel displays the data for the 'CASES' table in a grid format. The columns are labeled 'EDIT', 'CASE_ID', 'PRIMARY_LAWYER_ID', 'DESCRIPTION', 'TOTAL_COST', 'BEGIN_DATE', 'REQUIRED_COMPLETION_DATE', and 'CLOSE_DATE'. The data consists of 10 rows, each containing case details such as description, total cost, and completion date.

EDIT	CASE_ID	PRIMARY_LAWYER_ID	DESCRIPTION	TOTAL_COST	BEGIN_DATE	REQUIRED_COMPLETION_DATE	CLOSE_DATE
1	1	1	Case may be dismissed	1000000	11/16/2018	07/18/2021	05/16/2021
2	2	2	Case Apple v. Epic	10000000	06/09/2020	02/12/2023	09/22/2022
3	3	3	Case of Land v. Soundem in discovery	9840000	06/09/2020	05/07/2022	11/28/2021
4	3	3	Case Pharma v. State of California	30021	02/12/2019	03/08/2023	-
5	4	4	Case Brown v. State of New York	843200	02/25/2018	12/18/2020	08/17/2020
6	5	5	Case Daniel v. Samsung, case settled	234200	06/04/2017	08/22/2020	03/15/2020
7	6	6	Case Travis Scott v. City of Houston	244200	11/10/2021	05/27/2022	-
8	7	7	Case Enron v. State of New York, closed	72354200	02/21/2008	03/15/2012	08/12/2011
9	8	8	Case Mars v. Nettle	534200	05/21/2019	04/15/2021	03/18/2021
10	9	9	Case Lauren v. Paul, discovery	23200	01/11/2021	02/03/2023	-

Case Contact

Final Report

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables under the 'CASES' category, with 'CASE_CONTACT' selected. The main panel displays the 'CASE_CONTACT' table data. The columns are labeled 'EDIT', 'CASE_ID', and 'CONTACT_ID'. The data rows are as follows:

EDIT	CASE_ID	CONTACT_ID
	1	3
	1	9
	2	7
	3	2
	3	6
	3	8
	4	1
	4	8
	6	10
	8	4

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Calendar

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database tables under the 'CASES' category, with 'CALENDAR' selected. The main panel displays the 'CALENDAR' table data. The columns are labeled 'EDIT', 'APPOINTMENT_ID', 'LAWYER_ID', 'CONTACT_ID', 'DATE_TIME', 'DURATION', and 'PURPOSE'. The data rows are as follows:

EDIT	APPOINTMENT_ID	LAWYER_ID	CONTACT_ID	DATE_TIME	DURATION	PURPOSE
	1	1	2	02/12/2020	4	Discussed discovery details
	2	3	5	06/05/2021	2	Negotiated on settlement
	3	4	7	11/17/2020	3	Discussed defense details
	4	6	8	06/05/2021	1	Discussed charges for client
	5	4	3	07/11/2019	2	Discussed charges
	6	7	3	06/08/2020	4	Met with HR to discuss NDAs
	7	8	2	11/17/2020	2	Planned discovery
	8	9	3	06/05/2021	3	Explained charges
	9	2	6	08/01/2021	3	Planned charges
	10	2	4	06/06/2021	3	Negotiated plea

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Application Express 18.2.0.0.12

Logs

Final Report

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'Object Browser' and displays a table of logs. The table has columns: LOG_ID, LAWYER_ID, CASE_ID, LOG_DATE, TIME_SPENT, and WORK_DONE. The data is as follows:

LOG_ID	LAWYER_ID	CASE_ID	LOG_DATE	TIME_SPENT	WORK_DONE
1	1	3	02/25/2020	2	Motion to dismissed written and filed
2	3	2	01/12/2021	3	Motion for discovery filed
3	3	4	07/07/2019	1	Judge ordered ruling
4	5	8	09/06/2018	5	Motion for discovery filed
5	6	7	01/08/2020	8	Defendant ordered plea deal
6	2	8	07/05/2021	3	Case dismissed
7	6	2	07/07/2020	2	Jury decided on verdict
8	4	2	06/01/2019	4	Motion for discovery filed
9	8	6	04/25/2021	3	Jury decided on verdict
10	9	7	08/28/2020	1	Court ordered to be on Zoom

The sidebar on the left lists various tables: CALENDAR, CASES, CASE_CONTACT, CLIENT, CONTACT, DEMO_CONSTRAINT_LOOKUP, DEMO_CUSTOMERS, DEMO_ORDERS, DEMO_ORDER_ITEMS, DEMO_PRODUCT_INFO, DEMO_STATES, DEMO_TAGS, DEMO_TAGS_SUM, DEMO_TAGS_TYPE_SUM, DEPT, EMP, HTMLDB_PLAN_TABLE, LAWYER, LAWYER_SPECIALTY, and LOGS. The 'LOGS' item is currently selected. The bottom right corner of the page indicates 'Application Express 18.2.0.0.12'.