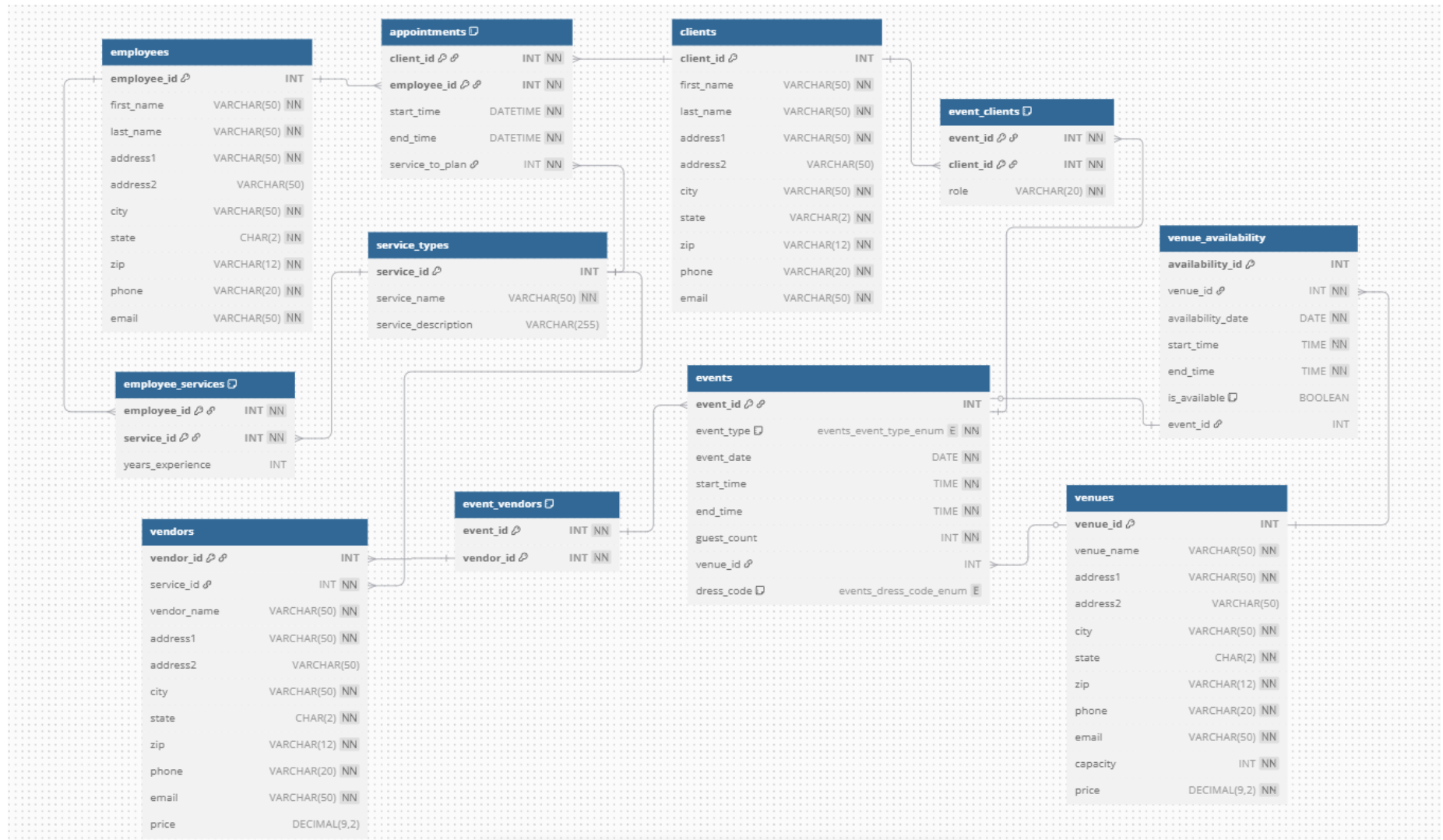


Technical Documentation

<https://dbdiagram.io/d/Elegant-Occasions-with-Alyssa-6819c4a11ca52373f59fbb2f>



Sample Queries

- Retrieve all appointments for a specific client.

```
SELECT CONCAT(c.first_name, ' ', c.last_name) as client,  
       CONCAT(e.first_name, ' ', e.last_name) as employee,  
       a.start_time,  
       a.end_time,  
       st.service_name AS service  
FROM appointments a  
     JOIN employees e  
       ON a.employee_id = e.employee_id  
     JOIN clients c  
       ON a.client_id = c.client_id  
     JOIN service_types st  
       ON a.service_to_plan = st.service_id  
WHERE c.client_id = 4;
```

client	employee	start_time	end_time	service
Emily Burdette	Jasmine Patel	2025-05-12 09:00:00	2025-05-12 10:00:00	aesthetician
Emily Burdette	Chloe Ramirez	2025-05-10 12:00:00	2025-05-10 13:00:00	wedding cake

- Find available venues for a given date and guest count.

```
DROP PROCEDURE IF EXISTS FindAvailableVenues;  
DELIMITER //  
CREATE PROCEDURE FindAvailableVenues(  
    IN search_date DATE,  
    IN start_time TIME,  
    IN end_time TIME,  
    IN guest_count INT  
)  
BEGIN  
    SELECT v.venue_id, v.venue_name, v.capacity, v.price
```

```

FROM venues v
WHERE v.capacity >= guest_count
AND NOT EXISTS (
    SELECT 1 FROM venue_availability va
    WHERE va.venue_id = v.venue_id
    AND va.availability_date = search_date
    AND va.is_available = FALSE
    AND (
        (va.start_time <= end_time AND va.end_time >= start_time)
    )
)
ORDER BY v.price;
END//
DELIMITER ;

CALL FindAvailableVenues('2025-07-10', '15:00:00', '21:00:00', 80);

```

venue_id	venue_name	capacity	price
3	The North Carolina Arboretum	150	750.00
10	Douglas Ellington House	125	3500.00
7	Haiku I Do	150	3700.00
4	Highland Brewing Company	250	4000.00
9	The Event Space at Hi-Wire Brewing	200	4000.00
6	Capital Club of Asheville	175	4500.00
5	The Sanctuary at Fiddlehead	150	4550.00
2	Homewood	150	5000.00
8	Weaver House	200	5000.00
11	The Venue	250	6000.00
1	Biltmore Estate	400	10000.00

- Calculate the total cost of services for a wedding.

```
DROP PROCEDURE IF EXISTS calculateEventCost;
DELIMITER //
CREATE PROCEDURE calculateEventCost(
    IN event_id INT
)
BEGIN
    DECLARE total_event_cost DECIMAL(9,2);

    SELECT SUM(price)
    INTO total_event_cost
    FROM (
        SELECT ev.vendor_id, v.price
        FROM event_vendors ev
        JOIN vendors v
        ON ev.vendor_id = v.vendor_id
        WHERE ev.event_id = event_id
    ) t;

    SELECT CONCAT('$', total_event_cost) AS 'Total Event Cost: ';
END //
DELIMITER ;

CALL calculateEventCost(4);

+-----+
| Total Event Cost: |
+-----+
| $17575.00         |
+-----+
```

- Display upcoming appointments for the week.

```
SELECT CONCAT(c.first_name, ' ', c.last_name) AS client,
       CONCAT(e.first_name, ' ', e.last_name) AS employee,
       DATE_FORMAT(a.start_time, '%m/%d/%y') AS date,
       DATE_FORMAT(a.start_time, '%r') AS start_time,
```

```

    DATE_FORMAT(a.end_time, '%r') AS end_time,
    st.service_name AS service
FROM appointments a
  JOIN employees e
  ON a.employee_id = e.employee_id
  JOIN clients c
  ON a.client_id = c.client_id
  JOIN service_types st
  ON a.service_to_plan = st.service_id
WHERE a.start_time < DATE_ADD(NOW(), INTERVAL 7 DAY);

```

client	employee	date	start_time	end_time	service
Rachel Garzarelli	Emily Waters	05/10/25	09:00:00 AM	10:00:00 AM	venue
Lena Garzarelli	Emily Waters	05/10/25	11:00:00 AM	12:00:00 PM	photography
Hanna Kirby	Emily Waters	05/12/25	09:00:00 AM	10:00:00 AM	photography
Jon Wilson	Emily Waters	05/12/25	10:30:00 AM	11:30:00 AM	photography
Rachel Garzarelli	Daniel Reed	05/10/25	10:30:00 AM	11:30:00 AM	catering
Lena Garzarelli	Daniel Reed	05/10/25	01:30:00 PM	02:30:00 PM	wedding cake
Erin Blankenship	Daniel Reed	05/12/25	10:30:00 AM	11:30:00 AM	wedding cake
Megan Fox	Daniel Reed	05/12/25	09:00:00 AM	10:00:00 AM	catering
Hanna Kirby	Anthony Sepielli	05/10/25	09:00:00 AM	10:00:00 AM	bar
Sue Kirby	Anthony Sepielli	05/10/25	04:00:00 PM	05:00:00 PM	entertainment
Maddie Blankenship	Anthony Sepielli	05/12/25	10:30:00 AM	11:30:00 AM	bar
Ben Bradshaw	Anthony Sepielli	05/12/25	09:00:00 AM	10:00:00 AM	photography
Hanna Kirby	Marcus Lopez	05/10/25	10:30:00 AM	11:30:00 AM	dress rentals
Ryan Franklin	Marcus Lopez	05/12/25	09:00:00 AM	10:00:00 AM	tux rentals
Kenny Hsu	Marcus Lopez	05/12/25	10:30:00 AM	11:30:00 AM	tux rentals
Sue Kirby	Isabella King	05/12/25	09:00:00 AM	10:00:00 AM	catering
Ben Bradshaw	Isabella King	05/12/25	10:30:00 AM	11:30:00 AM	tux rentals
Emily Burdette	Jasmine Patel	05/12/25	09:00:00 AM	10:00:00 AM	aesthetician
Sue Kirby	Jasmine Patel	05/10/25	02:30:00 PM	03:30:00 PM	floristry
Megan Fox	Jasmine Patel	05/12/25	10:30:00 AM	11:30:00 AM	floristry
Jon Wilson	Owen Brooks	05/12/25	09:00:00 AM	10:00:00 AM	entertainment
Matt Harris	Owen Brooks	05/12/25	10:30:00 AM	11:30:00 AM	entertainment
Emily Burdette	Chloe Ramirez	05/10/25	12:00:00 PM	01:00:00 PM	wedding cake

Patricia Galbani	Chloe Ramirez	05/12/25	09:00:00 AM	10:00:00 AM	wedding cake	
Annika Crutchfield	Chloe Ramirez	05/12/25	10:30:00 AM	11:30:00 AM	photography	
+-----+	+-----+	+-----+	+-----+	+-----+	+-----+	+-----+

- Create at least one view based on one of the queries above:

```
CREATE OR REPLACE VIEW view_appointments AS
SELECT CONCAT(c.first_name, ' ', c.last_name) AS client,
       CONCAT(e.first_name, ' ', e.last_name) AS employee,
       DATE_FORMAT(a.start_time, '%m/%d/%y') AS date,
       DATE_FORMAT(a.start_time, '%r') AS start_time,
       DATE_FORMAT(a.end_time, '%r') AS end_time,
       st.service_name AS service
FROM appointments a
     JOIN employees e
     ON a.employee_id = e.employee_id
     JOIN clients c
     ON a.client_id = c.client_id
     JOIN service_types st
     ON a.service_to_plan = st.service_id
WHERE a.start_time < DATE_ADD(NOW(), INTERVAL 7 DAY);

SELECT *
FROM view_appointments;
```

+-----+	+-----+	+-----+	+-----+	+-----+	+-----+	+-----+
client	employee	date	start_time	end_time	service	
+-----+	+-----+	+-----+	+-----+	+-----+	+-----+	+-----+
Rachel Garzarelli	Emily Waters	05/10/25	09:00:00 AM	10:00:00 AM	venue	
Lena Garzarelli	Emily Waters	05/10/25	11:00:00 AM	12:00:00 PM	photography	
Hanna Kirby	Emily Waters	05/12/25	09:00:00 AM	10:00:00 AM	photography	
Jon Wilson	Emily Waters	05/12/25	10:30:00 AM	11:30:00 AM	photography	
Rachel Garzarelli	Daniel Reed	05/10/25	10:30:00 AM	11:30:00 AM	catering	
Lena Garzarelli	Daniel Reed	05/10/25	01:30:00 PM	02:30:00 PM	wedding cake	
Erin Blankenship	Daniel Reed	05/12/25	10:30:00 AM	11:30:00 AM	wedding cake	
Megan Fox	Daniel Reed	05/12/25	09:00:00 AM	10:00:00 AM	catering	
Hanna Kirby	Anthony Sepielli	05/10/25	09:00:00 AM	10:00:00 AM	bar	

Sue Kirby	Anthony Sepielli	05/10/25	04:00:00 PM	05:00:00 PM	entertainment	
Maddie Blankenship	Anthony Sepielli	05/12/25	10:30:00 AM	11:30:00 AM	bar	
Ben Bradshaw	Anthony Sepielli	05/12/25	09:00:00 AM	10:00:00 AM	photography	
Hanna Kirby	Marcus Lopez	05/10/25	10:30:00 AM	11:30:00 AM	dress rentals	
Ryan Franklin	Marcus Lopez	05/12/25	09:00:00 AM	10:00:00 AM	tux rentals	
Kenny Hsu	Marcus Lopez	05/12/25	10:30:00 AM	11:30:00 AM	tux rentals	
Sue Kirby	Isabella King	05/12/25	09:00:00 AM	10:00:00 AM	catering	
Ben Bradshaw	Isabella King	05/12/25	10:30:00 AM	11:30:00 AM	tux rentals	
Emily Burdette	Jasmine Patel	05/12/25	09:00:00 AM	10:00:00 AM	aesthetician	
Sue Kirby	Jasmine Patel	05/10/25	02:30:00 PM	03:30:00 PM	floristry	
Megan Fox	Jasmine Patel	05/12/25	10:30:00 AM	11:30:00 AM	floristry	
Jon Wilson	Owen Brooks	05/12/25	09:00:00 AM	10:00:00 AM	entertainment	
Matt Harris	Owen Brooks	05/12/25	10:30:00 AM	11:30:00 AM	entertainment	
Emily Burdette	Chloe Ramirez	05/10/25	12:00:00 PM	01:00:00 PM	wedding cake	
Patricia Galbani	Chloe Ramirez	05/12/25	09:00:00 AM	10:00:00 AM	wedding cake	
Annika Crutchfield	Chloe Ramirez	05/12/25	10:30:00 AM	11:30:00 AM	photography	
+-----+-----+-----+-----+-----+-----+						

-- Displays clients, their roles, and the events that they're in

```
CREATE OR REPLACE VIEW clients_per_event AS
SELECT CONCAT(c.first_name, ' ', c.last_name) AS client,
ec.role AS client_role,
e.event_id AS event_id,
e.event_type
FROM event_clients ec
JOIN clients c
ON ec.client_id = c.client_id
JOIN events e
ON ec.event_id = e.event_id;
```

+-----+-----+-----+-----+			
client	client_role	event_id	event_type
+-----+-----+-----+-----+			
Rachel Garzarelli	bride	1	wedding
Lena Garzarelli	sister of bride	1	wedding
Patricia Galbani	bride	2	wedding

Jon Wilson	groom	2	wedding	
Kenny Hsu	best man	2	wedding	
Maddie Blankenship	bride	3	wedding	
Erin Blankenship	sister of bride	3	wedding	
Matt Harris	groom	3	wedding	
Hanna Kirby	bride	4	wedding	
Emily Burdette	maid of honor	4	wedding	
Sue Kirby	mother of bride	4	wedding	
Ryan Franklin	groom	4	wedding	
Tanya Franklin	mother of groom	4	wedding	
Annika Crutchfield	bride	5	wedding	
Alec Codeman	groom	5	wedding	
Ben Bradshaw	groom	6	wedding	
Megan Fox	bride	6	wedding	
Ben Bradshaw	groom	7	reception	
Megan Fox	bride	7	reception	
Hanna Kirby	bride	8	reception	
Emily Burdette	maid of honor	8	reception	
Sue Kirby	mother of bride	8	reception	
Ryan Franklin	groom	8	reception	
Tanya Franklin	mother of groom	8	reception	

+-----+-----+-----+-----+

-- Sets venue_id for an event

```

DROP PROCEDURE IF EXISTS set_venue_id;
DELIMITER //
CREATE PROCEDURE set_venue_id(
    IN p_event_id INT,
    IN p_venue_id INT
)
BEGIN
    DECLARE guest_count_var INT;
    DECLARE capacity_var INT;
    DECLARE is_available_var BOOLEAN;
    DECLARE event_date_var DATE;
    DECLARE start_time_var TIME;

```



```

DECLARE end_time_var TIME;

SELECT guest_count, event_date, start_time, end_time
INTO guest_count_var, event_date_var, start_time_var, end_time_var
FROM events
WHERE event_id = p_event_id;

SELECT capacity
INTO capacity_var
FROM venues
WHERE venue_id = p_venue_id;

SELECT COUNT(*) = 0
INTO is_available_var
FROM venue_availability
WHERE venue_id = p_venue_id
  AND availability_date = event_date_var
  AND is_available = FALSE
  AND (
    start_time <= end_time_var AND
    end_time >= start_time_var
  );

IF is_available_var = FALSE THEN
  SELECT 'There is an availability conflict with this venue.';
ELSEIF (guest_count_var <= capacity_var AND is_available_var) THEN
  UPDATE events
  SET venue_id = p_venue_id
  WHERE event_id = p_event_id;
  INSERT INTO venue_availability
  VALUES(DEFAULT, p_venue_id, event_date_var, start_time_var, end_time_var, FALSE, p_event_id);
  SELECT 'The venue has been updated for this event.';
ELSE
  SELECT "The guest count for this event exceeds the venue's capacity.";
END IF;
END //

```

```

CALL set_venue_id(4,4);
--Hanna's wedding guest_count = 200, Highland Brewing's capacity is 250
+-----+
| The venue has been updated for this event. |
+-----+
| The venue has been updated for this event. |
+-----+

SELECT * FROM EVENTS WHERE event_id = 4;
+-----+-----+-----+-----+-----+-----+-----+-----+
| event_id | event_type | event_date | start_time | end_time | guest_count | venue_id | dress_code |
+-----+-----+-----+-----+-----+-----+-----+-----+
|         4 | wedding   | 2025-09-01 | 14:00:00   | 20:00:00 |          200 |         4 | casual     |
+-----+-----+-----+-----+-----+-----+-----+-----+

--Tests for when capacity < guest_count
CALL set_venue_id(4, 2);
--Hanna's wedding guest_count = 200, Homewood's capacity is 150
+-----+
| The guest count for this event exceeds the venue's capacity. |
+-----+
| The guest count for this event exceeds the venue's capacity. |
+-----+

--Tests for availability conflict
CALL set_venue_id(9, 4);
+-----+
| There is an availability conflict with this venue. |
+-----+
| There is an availability conflict with this venue. |
+-----+

```