Number of Query	Query	Query Description
1	select (case when count(b.book_id) > 0 then true else false end) as in_stock from book b join book_author ba using (book_id) join author a using (author_id) join book_storage where b.book_name like '%? %' or a.first_name like '%?%' or a.last_name like '%?%'	Is book 'x' in stock?
2	select first_name, last_name from client order by created_date limit 1;	Who is the oldest customer?
3	select b.book_name, eb.publication_year, weight, amount_pages, bt.language_name, bs.start_date from book_copy join book_storage bs using (book_copy_id) join editorial_book eb using (editorial_book_id) join book b using (book_id) join book_translation bt using (book_id) where end_date is null order by bs.start_date limit 1;	Which is the oldest book?
4	select b.book_name, c2.first_name, last_name, oo.created_date from oorder oo left join communication c using (order_id) join book b using (book_id) join client c2 using (client_id) where communication_id is null order by oo.created_date;	List of current orders

5	select count(bs.sale_id) from sale join book_sale bs using (sale_id) join book_copy copy2 using (book_copy_id) join editorial_book eb using (editorial_book_id) join book b using (book_id) join book_author ba using (book_id) join author a using (author_id) where b.book_name like '%?%' or a.first_name like '%?%' or a.last_name like '%?%';	How many of 'y' books were sold by the store?
6	select a.first_name, a.last_name from sale join book_sale bs using (sale_id) join book_copy copy2 using (book_copy_id) join editorial_book book using (editorial_book_id) join book_author ba using (book_id) join author a using (author_id) where created_date > ? and created_date < ? group by author_id order by count(book_sale_id) desc limit 1;	Who is the most read writer during the dates of 'x' and 'y'
7	select c.first_name, c.last_name from sale join client c using (client_id) group by c.client_id order by count(sale_id) desc limit 3;	List of the top 3 buying customers
8	select b.book_name from book b join book_translation translation using (book_id) group by b.book_id order by count(b.book_id) desc limit 1;	What is the book with the largest number of translations currently in stock

	select	
	s.created_date,	
	(copy2.original_price + copy2.profit) as final_price,	
	b.book_name	
	from sale s	Customer 'X' purchase history:
9	join client c using (client_id)	What books did he purchase, on what dates and
	join book_sale using (sale_id)	what price did he pay for each book
	join book_copy copy2 using (book_copy_id)	, ,
	join editorial_book book2 using (editorial_book_id)	
	join book b using (book_id)	
	where first_name = '?' and last_name = '?'	
	order by c.created_date;	
	select	
	book_name, created_date,	
	(CASE	
	WHEN orders_with_com.order_id is null	
	THEN false	
	ELSE true	
	END) as was_found,	
	(CASE	
	WHEN orders_with_sale.order_id is null	
	THEN false	
	ELSE true	
	END) as was_aquired	
	from oorder	
	left join (Regarding person 'X': Order history (What and
10	select oorder.order_id	when ordered. Sorted by order dates) (Say if the
	from oorder	book was indeed found and if purchased)
	join communication c on oorder.order_id = c.order_id	
	where client_id = 1	
) as orders_with_com	
	using (order_id)	
	left join (
	select oo.order_id	
	from oorder oo	
	join sale s using (client_id)	
	join book_sale bs using (sale_id)	
	join book_copy copy2 using (book_copy_id)	
	join editorial_book book2 using (editorial_book_id)	
	where s.created_date >= oo.created_date	
	and oo.client_id = ?	

11	select delivery_by_book.book_name, delivery_by_book.delivery_name, delivery_by_book.company_name, TRUNCATE((delivery_by_book.price_per_kilo * eb.weight), 2) as delivery_price from (select * from book b, delivery_type d) delivery_by_book join editorial_book eb using (book_id);	Shipping cost calculation
12	book_name, tracking_number, delivery_name, company_name, delivery_status_name from delivery join book_sale_delivery delivery2 on delivery.delivery_id = delivery2.delivery_id join delivery_type t on delivery.delivery_type_id = t.delivery_type_id join delivery_status s on delivery.delivery_status_id = s.delivery_status_id join book_sale sale on delivery2.book_sale_id = sale.book_sale_id join book_copy copy2 on sale.book_copy_id = copy2.book_copy_id join editorial_book book2 using (editorial_book_id) join (Has Customer 'X' ever split a book purchase for multiple shipments and if so what is the shipping data
13	select delivery_status_name from delivery_status join delivery d using (delivery_status_id) where tracking_number = '?';	What is the current status of a particular shipment

		T
	select count(*)	
	from book_sale_delivery	
	join book_sale sale on book_sale_delivery.book_sale_id =	
	sale.book_sale_id	
	join delivery d on book_sale_delivery.delivery_id = d.delivery_id	What is the amount of shipments made by
14	join delivery_type t on d.delivery_type_id = t.delivery_type_id	Xpress during a particular month
	join sale s on sale.sale_id = s.sale_id	
	where company_name = 'XPress'	
	and month(s.created_date) = ?	
	select TRUNCATE(IFNULL(sum(profit + original_price), 0), 2) as total	
	from book_sale bs	
	join book_copy copy2 on bs.book_copy_id = copy2.book_copy_id	The total money transferred to the store
15	join sale s using (sale_id)	account via Bit during a certain month
	join payment_type t2 using (payment_type_id)	decount via bit daring a certain monen
	where payment_name = 'Bit'	
	and month(s.created_date) = ?;	
	select	
	book_name,	
	CONCAT(CONCAT(first_name, ' '), last_name),	
	(profit + original_price) as final_price	
	from book_sale bs	
	join book_copy copy2 using (book_copy_id)	What are the transactions that have been made during the last 12 months, and which have yielded greater profit than the average profit in these 12 months
	join sale s using (sale_id)	
	join payment_type t2 using (payment_type_id)	
1.0	join editorial_book eb using (editorial_book_id)	
16	join book b using (book_id)	
	join client c using (client_id)	
	where s.created_date < NOW() and s.created_date >	
	DATE_ADD(NOW(), INTERVAL -12 MONTH)	
	and profit > (select avg(profit) from book_sale bs	
	join book_copy copy2 on bs.book_copy_id =	
	copy2.book copy id	
	join sale s using (sale_id)	
	join payment_type t2 using (payment_type_id));	
	join payment_type tz danig (payment_type_id)),	

		1
17	select company_name, count(book_delivery_id) from book_sale_delivery bs join book_sale sale on bs.book_sale_id = sale.book_sale_id join delivery d on bs.delivery_id = d.delivery_id join delivery_type t on d.delivery_type_id = t.delivery_type_id join book_copy copy2 on sale.book_copy_id = copy2.book_copy_id join editorial_book book2 using (editorial_book_id) join sale s on sale.sale_id = s.sale_id where s.created_date < NOW() and s.created_date > DATE_ADD(NOW(), INTERVAL -12 MONTH) group by company_name;	How many shipments have been made in the last 12 months by Israeli mail and how many were were made by the delivery company, Xpress
18	select book_name, tracking_number, delivery_status_name, delivery_name, company_name from delivery join (select count(distinct book.editorial_book_id), book_id, delivery2.delivery_id from delivery join book_sale_delivery delivery2 on delivery.delivery_id = delivery2.delivery_id join book_sale sale on delivery2.book_sale_id = sale.book_sale_id join book_copy copy2 on sale.book_copy_id = copy2.book_copy_id join editorial_book book on copy2.editorial_book_id = book.editorial_book_id group by book_id, delivery2.delivery_id having count(distinct book.editorial_book_id) > 1) multiple_edition_deliveries using (delivery_id) join delivery_status s using (delivery_status_id) join delivery_type t using (delivery_type_id) join book using (book_id);	Data on all shipments made ever that include at least 2 different editions of the same book

```
select CONCAT(CONCAT(first_name, ' '), last_name),
           phone number,
           mobile_number,
           created_date
                                                                               Data on all customers who have previously
          from client
                                                                               purchased, at any time, at least one book
19
          where client_id not in (
                                                                               from the store, and who have not made any
           select client id
                                                                               purchases during the last 24 months
           from sale s
           where s.created date < NOW() and s.created date >
          DATE_ADD(NOW(), INTERVAL -24 MONTH)
          select CONCAT(CONCAT(first_name, ''), last_name), phone_number,
          mobile_number, created_date
          from client
          where client_id in (
           select o.client id
           from communication c
            join oorder o using (order_id)
                                                                               List of customers who placed orders, the books
            join editorial_book using (book_id)
                                                                               they ordered arrived at the store,
            join book_copy copy2 using (editorial_book_id)
                                                                               the store contacted them to inform them of the
20
            join book_sale sale using (book_copy_id)
                                                                               availability of the book.
            join editorial_book bought_book on copy2.editorial_book_id =
                                                                               The contact was made 14 days ago, and
          bought_book.editorial_book_id
                                                                               customers have not yet purchased the book.
            join sale s using (sale_id)
           where c.created_date < DATE_ADD(NOW(), INTERVAL -14 DAY)
              and bought_book.book_id = editorial_book.book_id
              and s.client id = o.client id
              and s.created_date >= c.created_date
          );
```

	select	
	MONTH(dd), YEAR(dd),	
	sum(is_between)	
	from (
	SELECT	
	c.dd,	
	bs.book_copy_id,	
	bs.start date,	
	IFNULL(bs.end_date, DATE(NOW())) as end_date,	
	(CASE	
21	WHEN c.dd between start_date and IFNULL(bs.end_date,	Number of books in the warehouse on a
21	DATE(NOW()))	monthly basis
	THEN 1	
	ELSE 0	
	END) as is_between	
	from calendar c, book_storage bs	
	join storage s using (storage_id)	
	where storage_name = 'Warehouse'	
) books_per_month	
	group by 1, 2	
	order by 2, 1;	
	select	
	count(book_copy_id),	University lead to did the atoms remakes a
	sum(original_price)	How many books did the store purchase
22	from purchase	between D1 and D2, and what was the total
	join book_copy copy2 using (book_copy_id)	payment for them.
	where created_date between '?' and '?';	
	select (select sum(original_price + profit)	
	from sale	
	join book_sale bs on sale.sale_id = bs.sale_id	
	join book_copy copy2 on bs.book_copy_id =	
23	copy2.book_copy_id	The store profits from sales in a particular month
23	where MONTH(created_date) = ?) - (select sum(original_price)	The store profits from sales in a particular month
	from purchase	
	join book_copy copy2 using (book_copy_id)	
	where MONTH(created_date) = ?) as	
	month_profit;	
	select YEAR(dd), count(s.sale_id)/12 from calendar	
24	left join sale s on YEAR(s.created_date) = YEAR(dd)	Annual average monthly transactions
	group by YEAR(dd)	, , , , , , , , , , , , , , , , , , , ,
	order by YEAR(dd) asc;	
25	select IFNULL(sum(hours_count * hourly_salary), 0) as net_salary	
	from employee_history	
	join employee_schedule es using (employee_id)	
	join employee e using(employee_id)	Gross salary of employee 'Z' in a given month
	where month_id = ?	
	and year_id = ?	
	and employee_id = ?;	
		1

	select CONCAT(CONCAT(e.first_name, ' '), e.last_name) from sale join employee e using(employee_id)	
26	where month(created_date) = ? and year(created_date) = ?	Who is the employee with the most sales per month?
	group by employee_id order by count(sale_id) desc	
	limit 1	