Aggregate queries (tasks)

Schema HomePro

Homepro.Customers

- 1. Calculate number of customers and average customers' age.
- Calculate number of customers, show the age of the oldest and youngest customer, who did not subscribe on NewsLetter.

Homepro.Schedules

- 3. Calculate the number of rows with JobType 'Remodeling'.
- 4. Calculate the count of each JobType.
- 5. Find the earliest and the last date when we have scheduled work.

Homepro.Quotes

- 6. Calculate Sum of Quotes for 'Kitchen'.
- 7. Find the smallest Quote that bigger than \$500.
- 8. Find the summary and average value of all estimations.

Schema Bank

Bank.Clients

- 9. Find the age of the youngest client and average age of our clients.
- 10. Find average age and number of our Private clients.
- 11. Find the age of oldest client who lives not in New Jersey.

Bank.Clients

- 12. Find the biggest balance.
- 13. Calculate the average balance by each client.
- 14. Calculate the average balance and number of Accounts by each Client.

Bank.Clients

- 15. Find average amount of transactions
- 16. Find average amount and number of transactions paid by each Account.

SQL Join (tasks)

Schema HomePro

- 1. Find all Customers who has scheduled work after '2015-01-01'
- 2. Find customers (**FirstName, LastName, Email, Phone, Description, Estimation**) who has Quote's Estimation bigger than \$500. Order by Estimation.
- 3. Find All customers (FirstName,LastName,Email,Phone, AltPhone,Quoteld,Description, Estimation) who has a quote but did not provide AltPhone.
 - Note: The column Quoteld represents data from HomePro.Quotes.ld
- 4. Find All customers (FirstName,LastName,Email,Phone, AltPhone, Quoteld, Description, Estimation) who has a quote within year 2016 but did not provide AltPhone.
- 5. Find customers that do not have any Quote.
- 6. Find customers that have neither Quote nor Schedule.
- 7. Find customers that have Schedules, but don't have Quote.
- 8. Find all customers that have Scheduled JobType = 'Remodeling' with Estimated quote less than 5000 and Younger than 70.
- 9. Calculate sum of all quotes for clients who have **NewsLetter** = 1
- 10. Calculate sum of all quotes for clients who have Schedules before 2015-01-01
- 11. Calculate the Number of clients, Sum of Estimations and Average Estimation for all customers that have Scheduled JobType = 'Remodeling' with Estimated quote less than 5000 and Younger than 70.

Schema Bank

- 12. Find all clients that have 'checking' account (FirstName,LastName,Phone,Email,State, Age, Balance, AccountType)
- 13. Find all clients that have 'checking' or 'credit' accounts (FirstName, LastName, Phone, Email, State, Age, Balance, AccountType).
- 14. Find all clients that have 'checking' and 'credit' accounts (FirstName, LastName, Phone, Email, State, Age, BalanceCredit, TypeCredit, BalanceCheking, TypeCheking).
- 15. Calculate summary money on all accounts for 'Private' clients.
- 16. Find clients (FirstName, LastName, Phone, Email, State, Age, Amount, Status, Transaction Time) who have "pending" transactions.
- 17. Find clients and account's balance (FirstName,LastName,Phone,Email,State,Age,Balance,Type, Amount, Status, TransactionTime) who have "rejected" transactions.
- 18. Find clients and Transactions (FirstName,LastName,Phone,Email,State,Age,Balance,Type, Amount, Status, TransactionTime) who made payment after 2015-12-31
- 19. Find clients and Transactions (FirstName,LastName,Phone,Email,State,Age,Balance,Type, Amount, Status,TransactionTime) who received money on credit account.
- 20. Find Accounts including Client's name (**FirstName,LastName,Phone,Email,State,Age,Balance,AccountType**) from that payment was never done.
- 21. Find Account number, number of transactions and Summary of all payments for all clients older than 20. (FirstName, LastName, AccountNumber, Transactions, SumAmount). Order by AccountNumber.
- 22. Show all transactions counterparts' names with transaction information (FirstNameFrom, LastNameFrom, AccountTypeFrom, FirstNameTo, LastNameTo, AccountTypeTo, Amount, Status, TransactionTime). Order by amount.