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|  |
| Tokyo Subway System |
| Using SQL to Simplify Travel |
|  |
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# Introduction

The Tokyo subway is a series of stations which consist of letter representations and lines with subway lines represented by numbers (see figure one). To make travel easier for passengers they have circled the stations with a color that represents the subway line (Tokyo Subway Navigation for Tourist, 2016). Unfortunately, even with clear symbols and simple design, navigating the subway system can be confusing for passengers.

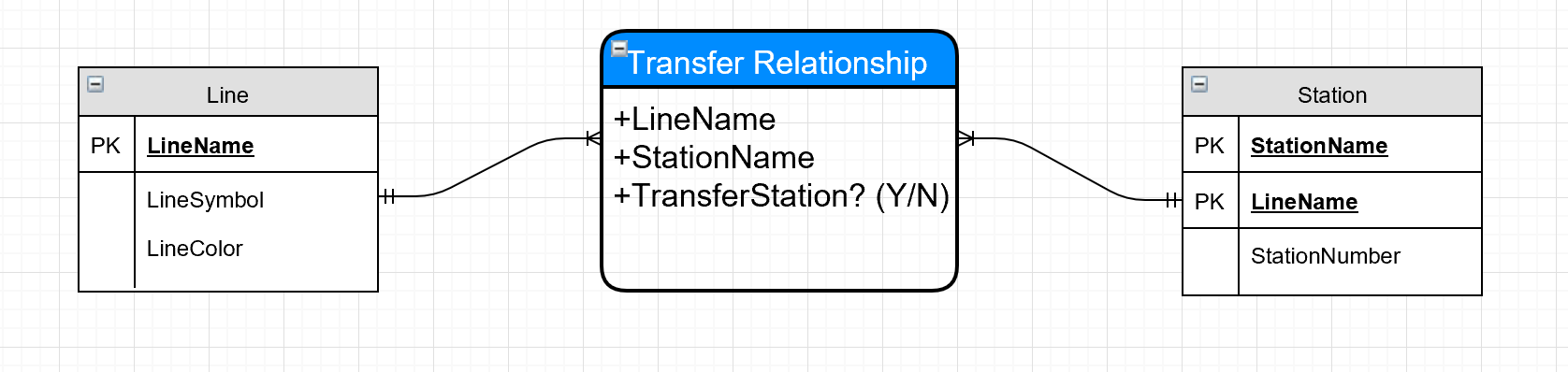
A structured query language (SQL) can simplify this process. The first step to achieving this goal is to create an Entity relationship (ER) Model. An ER model is a graphical representation of entities and their relationship to one another. This will be the basis for which a tables and queries for SQL will be designed.

Tokyo city has 13 lines and each line has around twenty stations. The scope of this project is eleven lines and their stations. The lines chosen are: Asakusa Line, Chiyoda Line, Fukutoshin Line, Ginza Line, Hanzomon Line, Hibiya Line, Mita Line, Namboku Line, Shinjuku Line, Tozai Line, and Yurakucho Line.

There were a few challenges while creating this project. The first was creating an ER model that supported the SQL. This was simple in theory yet it had to be reimagined once implemented into the SQL. The second was reformatting the tables to reflect the ER diagram. Another challenge was handling the complexity of the physical subway system: for example, Tokyo uses several different station names for one single transfer station. This clearly affects the table design. Another challenge is listing all of the station names in the same line, when the station numbers at the start and end point that the user chose are unknown. Additionally if the station number of the start point is greater than the end point this will create a complexity for the query. In some cases, the start station and the end station the user chose are both transfer stations, and they are not in the same line. This results in the possibility of multiple routes to finish this transfer. This led to the final and greatest challenge: Listing all of the station names for all possible routes for a transfer.

# ER Model

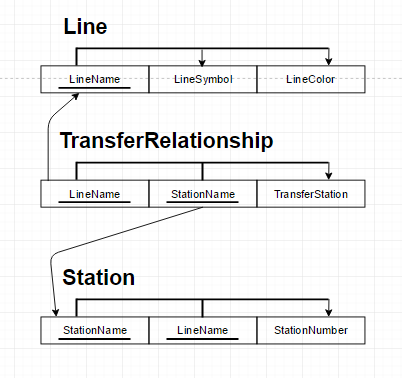
An entity-relationship (ER) model is, "a detailed, logical representation of the data for an organization or for a business area." (Hoffer, 2011). This relationship is typically expressed as a diagram. Similarly, to create an SQL, it is necessary to detail the map as an ER diagram. The diagram must be binary which is a connection between two entities to support the relationship between stations and lines. This relationship is a mandatory many to many as signified by crows feet crossed by a vertical line. This represents the relationship between stations and lines. Each station must have at least one line but they can have several lines running through them as well. Each line must have at least one station but may connect to many stations. Primary keys in the ER diagram are titled LineName and StationName are used to identify each row in the relation. (Hoffer,2011). The entity names Station and Line were chosen because they are simple and straight forward. An associative entity which contains attributes that are required for the relationships is also necessary. In the ER model, this is represented by TransferRelationship. The transfer relationship is important to show whether the station is a transfer station or not. To do this, the associative entity has the attributes LineName, StationName, and TransferStation (Y/N). This style was chosen to represent that one line and one station has many different transfer options.



# 

# Tables

Using the information from ER model, it is crucial to create the relationship table in third normal form (3NF). This form indicates what each entity’s attributes depend upon within their description. Therefore, each primary and foreign key is labeled for each entity. For example, under the Line entity, the primary key is Line Name whereas the attributes of Line are line symbol and line color. Moving through the rest of the table, Line Name is included under the ­Station and Transfer entity because it is indicated that the Line Name attribute as an essential foreign key for the model. The reason being is the Line Name attribute is the most unique variable throughout the model, the Line Color and Line Symbol could easily change, and the Line Symbol is not always use the first letter initial from the Line Name.



# SQL Queries and Results

# Situation 1 : The given two stations are in the same line

The start station -- Nihombashi (a transfer station)

The end station -- Mita (a transfer station)

Query code:

CREATE VIEW get\_start\_station\_detail\_v AS

SELECT

StationName AS start\_station\_name,

StationNumber AS start\_station\_number,

LineName AS start\_line

FROM

station\_t

WHERE

StationName = 'Nihombashi';

CREATE VIEW get\_end\_station\_detail\_v AS

SELECT

StationName AS end\_station\_name,

StationNumber AS end\_station\_number,

LineName AS end\_line

FROM

station\_t

WHERE

StationName = 'Mita';

SELECT

station\_t.StationName,

station\_t.StationNumber,

station\_t.LineName,

line\_t.LineSymbol

FROM

line\_t

JOIN

station\_t ON line\_t.LineName = station\_t.LineName

JOIN

get\_start\_station\_detail\_v ON station\_t.LineName = get\_start\_station\_detail\_v.start\_line

JOIN

get\_end\_station\_detail\_v ON station\_t.LineName = get\_end\_station\_detail\_v.end\_line

WHERE

station\_t.StationNumber BETWEEN LEAST((SELECT

get\_start\_station\_detail\_v.start\_station\_number

FROM

get\_start\_station\_detail\_v,

get\_end\_station\_detail\_v

WHERE

get\_start\_station\_detail\_v.start\_line = get\_end\_station\_detail\_v.end\_line),

(SELECT

get\_end\_station\_detail\_v.end\_station\_number

FROM

get\_start\_station\_detail\_v,

get\_end\_station\_detail\_v

WHERE

get\_start\_station\_detail\_v.start\_line = get\_end\_station\_detail\_v.end\_line)) AND GREATEST((SELECT

get\_start\_station\_detail\_v.start\_station\_number

FROM

get\_start\_station\_detail\_v,

get\_end\_station\_detail\_v

WHERE

get\_start\_station\_detail\_v.start\_line = get\_end\_station\_detail\_v.end\_line),

(SELECT

get\_end\_station\_detail\_v.end\_station\_number

FROM

get\_start\_station\_detail\_v,

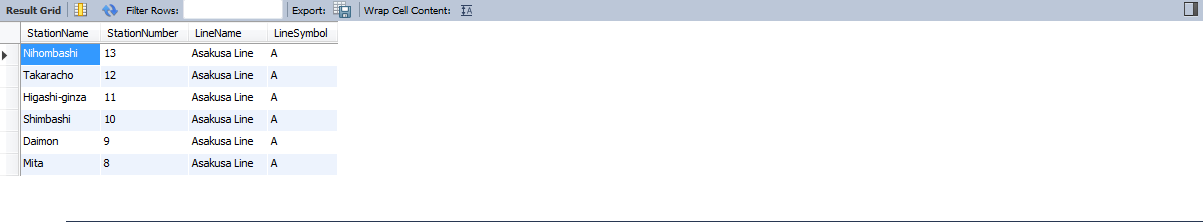
get\_end\_station\_detail\_v

WHERE

get\_start\_station\_detail\_v.start\_line = get\_end\_station\_detail\_v.end\_line))

ORDER BY StationNumber DESC

The result:



The result shown that start from the station “Nihombashi”, the passenger need to take Asakusa Line which the Line Symbol is “A”, get on the subway on station number 13, and then get off the subway at station number 8, to get the end station “Mita”.

# Situation 2 : The given two stations are not in the same line and require one transfer

The start station name -- Shimbashi (a transfer station)

The end station name -- Meguro (a transfer station)

Query code:

SELECT

get\_start\_station\_detail\_v.start\_station\_name,

get\_start\_station\_detail\_v.start\_line,

a.StationName AS transfer\_station,

get\_end\_station\_detail\_v.end\_station\_name,

get\_end\_station\_detail\_v.end\_line

FROM

transfer\_relationship\_t AS a,

transfer\_relationship\_t AS b,

get\_start\_station\_detail\_v,

get\_end\_station\_detail\_v

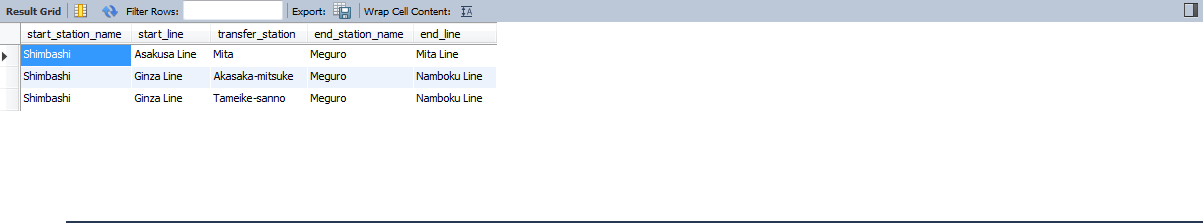
WHERE

a.StationName = b.StationName

AND a.LineName = get\_start\_station\_detail\_v.start\_line

AND b.LineName = get\_end\_station\_detail\_v.end\_line

The result:



The result shown that the passenger has 3 options to finish the transfer:

Route1: get on the train on Asakusa Line at station “Shimbashi”, get off at station “Mita”, then transfer to Mita Line to get the end station “Meguro”

Route2: get on the train on Ginza Line at station “Shimbashi”, get off at station “Akasaka-mitsuke”, then transfer to Namboku Line to get the end station “Meguro”

Route3: get on the train on Ginza Line at station “Shimbashi”, get off at station “Tameike-sanno”, then transfer to Namboku Line to get the end station “Meguro”

# Appendix

1. Database table with data input
   1. Line table

|  |  |  |
| --- | --- | --- |
| LineName | LineSymbol | LineColor |
| Asakusa Line | A | Rose |
| Chiyoda Line | C | Green |
| Fukutoshin Line | F | Brown |
| Ginza Line | G | Orange |
| Hanzomon Line | Z | Purple |
| Hibiya Line | H | Silver |
| Mita Line | I | Blue |
| Namboku Line | N | Emerald |
| Shinjuku Line | S | Leaf |
| Tozai Line | T | Sky |
| Yurakucho Line | Y | Gold |

* 1. Station table

|  |  |  |
| --- | --- | --- |
| StationName | LineName | StationNumber |
| Akabane-iwabuchi | Namboku Line | 19 |
| Akasaka | Chiyoda Line | 6 |
| Akasaka-mitsuke | Ginza Line | 5 |
| Akasaka-mitsuke | Hanzomon Line | 4 |
| Akasaka-mitsuke | Namboku Line | 7 |
| Akasaka-mitsuke | Yurakucho Line | 16 |
| Akebonobashi | Shinjuku Line | 3 |
| Aoyama-itchome | Ginza Line | 4 |
| Aoyama-itchome | Hanzomon Line | 3 |
| Asakusa | Asakusa Line | 18 |
| Asakusa | Ginza Line | 19 |
| Asakusabashi | Asakusa Line | 16 |
| Ayase | Chiyoda Line | 19 |
| Azabu-juban | Namboku Line | 4 |
| Bakuroyokoyama | Asakusa Line | 15 |
| Bakuroyokoyama | Shinjuku Line | 9 |
| Baraki-nakayama | Tozai Line | 22 |
| Chikatetsu-akalasuka | Fukutoshin Line | 3 |
| Chikatetsu-akatsuka | Yurakucho Line | 3 |
| Chikatetsu-narimasu | Fukutoshin Line | 2 |
| Chikatetsu-narimasu | Yurakucho Line | 2 |
| Daimon | Asakusa Line | 9 |
| Ebisu | Hibiya Line | 2 |
| Edogawabashi | Yurakucho Line | 12 |
| Funabori | Shinjuku Line | 17 |
| Gaiemmae | Ginza Line | 3 |
| Ginza | Ginza Line | 9 |
| Ginza | Hibiya Line | 8 |
| Ginza-itchome | Yurakucho Line | 19 |
| Gokokuji | Yurakucho Line | 11 |
| Gotanda | Asakusa Line | 5 |
| Gyotoku | Tozai Line | 20 |
| Hakusan | Mita Line | 13 |
| Hamacho | Shinjuku Line | 10 |
| Hanzomon | Hanzomon Line | 5 |
| Hasune | Mita Line | 23 |
| Hatchobori | Hibiya Line | 11 |
| Heiwadai | Fukutoshin Line | 4 |
| Heiwadai | Yurakucho Line | 4 |
| Hibiya | Chiyoda Line | 9 |
| Hibiya | Hibiya Line | 7 |
| Hibiya | Mita Line | 8 |
| Hibiya | Yurakucho Line | 18 |
| Higashi-ginza | Asakusa Line | 11 |
| Higashi-ginza | Hibiya Line | 9 |
| Higashi-ikebukuro | Yurakucho Line | 10 |
| Higashi-ojima | Shinjuku Line | 16 |
| Higashi-shinjuku | Fukutoshin Line | 12 |
| Hikawadai | Fukutoshin Line | 5 |
| Hikawadai | Yurakucho Line | 5 |
| Hiro-o | Hibiya Line | 3 |
| Hon-Komagome | Namboku Line | 13 |
| Honjo-azumabashi | Asakusa Line | 19 |
| Ichigaya | Namboku Line | 9 |
| Ichigaya | Shinjuku Line | 4 |
| Ichigaya | Yurakucho Line | 14 |
| Ichinoe | Shinjuku Line | 18 |
| Iidabashi | Namboku Line | 10 |
| Iidabashi | Tozai Line | 6 |
| Iidabashi | Yurakucho Line | 13 |
| Ikebukuro | Fukutoshin Line | 9 |
| Ikebukuro | Yurakucho Line | 9 |
| Inaricho | Ginza Line | 17 |
| Iriya | Hibiya Line | 18 |
| Itabashihoncho | Mita Line | 19 |
| Itabashikuyakushomae | Mita Line | 18 |
| Iwamotocho | Hibiya Line | 15 |
| Iwamotocho | Shinjuku Line | 8 |
| Jimbocho | Hanzomon Line | 7 |
| Jimbocho | Mita Line | 10 |
| Jimbocho | Shinjuku Line | 6 |
| Kagurazaka | Tozai Line | 5 |
| Kamiyacho | Hibiya Line | 5 |
| Kanamecho | Fukutoshin Line | 8 |
| Kanamecho | Yurakucho Line | 8 |
| Kanda | Ginza Line | 13 |
| Kasai | Tozai Line | 17 |
| Kasuga | Mita Line | 12 |
| Kasuga | Namboku Line | 11 |
| Kasumigaseki | Chiyoda Line | 8 |
| Kasumigaseki | Hibiya Line | 6 |
| Kayabacho | Hibiya Line | 12 |
| Kayabacho | Tozai Line | 11 |
| Kiba | Tozai Line | 13 |
| Kikukawa | Shinjuku Line | 12 |
| Kinshicho | Hanzomon Line | 13 |
| Kita-ayase | Chiyoda Line | 20 |
| Kita-sando | Fukutoshin Line | 14 |
| Kita-senju | Chiyoda Line | 18 |
| Kita-senju | Hibiya Line | 21 |
| Kiyosumi-shirakawa | Hanzomon Line | 11 |
| Kodemmacho | Hibiya Line | 14 |
| Kojimachi | Yurakucho Line | 15 |
| Komagome | Namboku Line | 14 |
| Kotake-mukaihara | Fukutoshin Line | 6 |
| Kotake-mukaihara | Yurakucho Line | 6 |
| Kudanshita | Hanzomon Line | 6 |
| Kudanshita | Shinjuku Line | 5 |
| Kudanshita | Tozai Line | 7 |
| Kuramae | Asakusa Line | 17 |
| Kyobashi | Ginza Line | 10 |
| Machiya | Chiyoda Line | 17 |
| Magome | Asakusa Line | 2 |
| Meguro | Mita Line | 1 |
| Meguro | Namboku Line | 1 |
| Meiji-jingumae | Chiyoda Line | 3 |
| Meiji-jingumae | Fukutoshin Line | 15 |
| Minami-gyotoku | Tozai Line | 19 |
| Minami-senju | Hibiya Line | 20 |
| Minami-sunamachi | Tozai Line | 15 |
| Minowa | Hibiya Line | 19 |
| Mita | Asakusa Line | 8 |
| Mita | Mita Line | 4 |
| Mitsukoshimae | Ginza Line | 12 |
| Mitsukoshimae | Hanzomon Line | 9 |
| Mizue | Shinjuku Line | 19 |
| Monzen-nakacho | Tozai Line | 12 |
| Morishita | Shinjuku Line | 11 |
| Motohasunuma | Mita Line | 20 |
| Motoyawata | Shinjuku Line | 21 |
| Myoden | Tozai Line | 21 |
| Naka-meguro | Hibiya Line | 1 |
| Nakano | Tozai Line | 1 |
| Nakanobu | Asakusa Line | 3 |
| Nezu | Chiyoda Line | 14 |
| Nihombashi | Asakusa Line | 13 |
| Nihombashi | Ginza Line | 11 |
| Nihombashi | Tozai Line | 10 |
| Nijubashimae | Chiyoda Line | 10 |
| Ningyocho | Asakusa Line | 14 |
| Ningyocho | Hibiya Line | 13 |
| Nishi-funabashi | Tozai Line | 23 |
| Nishi-kasai | Tozai Line | 16 |
| Nishi-magome | Asakusa Line | 1 |
| Nishi-nippori | Chiyoda Line | 16 |
| Nishi-ojima | Shinjuku Line | 14 |
| Nishi-sugamo | Mita Line | 16 |
| Nishi-takashimadaira | Mita Line | 27 |
| Nishi-waseda | Fukutoshin Line | 11 |
| Nishidai | Mita Line | 24 |
| Nishigahara | Namboku Line | 15 |
| Nogizaka | Chiyoda Line | 5 |
| Ochiai | Tozai Line | 2 |
| Ogawamachi | Chiyoda Line | 12 |
| Ogawamachi | Shinjuku Line | 7 |
| Oji | Namboku Line | 16 |
| Oji-kamiya | Namboku Line | 17 |
| Ojima | Shinjuku Line | 15 |
| Omote-sando | Chiyoda Line | 4 |
| Omote-sando | Ginza Line | 2 |
| Omote-sando | Hanzomon Line | 2 |
| Onarimon | Mita Line | 6 |
| Oshiage | Asakusa Line | 20 |
| Oshiage | Hanzomon Line | 14 |
| Otemachi | Chiyoda Line | 11 |
| Otemachi | Hanzomon Line | 8 |
| Otemachi | Mita Line | 9 |
| Otemachi | Tozai Line | 9 |
| Roppongi | Hibiya Line | 4 |
| Roppongi-itchome | Namboku Line | 5 |
| Sakuradamon | Yurakucho Line | 17 |
| Sendagi | Chiyoda Line | 15 |
| Sengakuji | Asakusa Line | 7 |
| Sengoku | Mita Line | 14 |
| Senkawa | Fukutoshin Line | 7 |
| Senkawa | Yurakucho Line | 7 |
| Shibakoen | Mita Line | 5 |
| Shibuya | Fukutoshin Line | 16 |
| Shibuya | Ginza Line | 1 |
| Shibuya | Hanzomon Line | 1 |
| Shimbashi | Asakusa Line | 10 |
| Shimbashi | Ginza Line | 8 |
| Shimo | Namboku Line | 18 |
| Shimura-sakaue | Mita Line | 21 |
| Shimura0sanchome | Mita Line | 22 |
| Shin-kiba | Yurakucho Line | 24 |
| Shin-takashimadaira | Mita Line | 26 |
| Shinijuku | Shinjuku Line | 1 |
| Shinitabashi | Mita Line | 17 |
| Shinjuku-sanchome | Fukutoshin Line | 13 |
| Shinjuku-sanchome | Shinjuku Line | 2 |
| Shinozaki | Shinjuku Line | 20 |
| Shintomicho | Yurakucho Line | 20 |
| Shirokane-takanawa | Mita Line | 3 |
| Shirokane-takanawa | Namboku Line | 3 |
| Shirokanedai | Mita Line | 2 |
| Shirokanedai | Namboku Line | 2 |
| Suehirocho | Ginza Line | 14 |
| Sugamo | Mita Line | 15 |
| Suidobashi | Mita Line | 11 |
| Suitengumae | Hanzomon Line | 10 |
| Sumiyoshi | Hanzomon Line | 12 |
| Sumiyoshi | Shinjuku Line | 13 |
| Takadanobaba | Tozai Line | 3 |
| Takanawadai | Asakusa Line | 6 |
| Takaracho | Asakusa Line | 12 |
| Takashimadaira | Mita Line | 25 |
| Takebashi | Tozai Line | 8 |
| Tameike-sanno | Chiyoda Line | 7 |
| Tameike-sanno | Ginza Line | 6 |
| Tameike-sanno | Namboku Line | 6 |
| Tatsumi | Yurakucho Line | 23 |
| Tawaramachi | Ginza Line | 18 |
| Todaimae | Namboku Line | 12 |
| Togoshi | Asakusa Line | 4 |
| Toranomon | Ginza Line | 7 |
| Toyocho | Tozai Line | 14 |
| Toyosu | Yurakucho Line | 22 |
| Tsukiji | Hibiya Line | 10 |
| Tsukishima | Yurakucho Line | 21 |
| Uchisaiwaicho | Mita Line | 7 |
| Ueno | Ginza Line | 16 |
| Ueno | Hibiya Line | 17 |
| Ueno-hirokoji | Ginza Line | 15 |
| Ueno-hirokoji | Hibiya Line | 16 |
| Urayasu | Tozai Line | 18 |
| Wakoshi | Fukutoshin Line | 1 |
| Wakoshi | Yurakucho Line | 1 |
| Waseda | Tozai Line | 4 |
| Yotsuya | Namboku Line | 8 |
| Yoyogi-koen | Chiyoda Line | 2 |
| Yoyogi-uehara | Chiyoda Line | 1 |
| Yushima | Chiyoda Line | 13 |
| Zoshigaya | Fukutoshin Line | 10 |

* 1. Transfer\_relationship table

|  |  |  |
| --- | --- | --- |
| LineName | StationName | Transfer\_Station |
| Asakusa Line | Asakusa | Yes |
| Asakusa Line | Asakusabashi | No |
| Asakusa Line | Bakuroyokoyama | Yes |
| Asakusa Line | Daimon | No |
| Asakusa Line | Gotanda | No |
| Asakusa Line | Higashi-ginza | Yes |
| Asakusa Line | Honjo-azumabashi | No |
| Asakusa Line | Kuramae | No |
| Asakusa Line | Magome | No |
| Asakusa Line | Mita | Yes |
| Asakusa Line | Nakanobu | No |
| Asakusa Line | Nihombashi | Yes |
| Asakusa Line | Ningyocho | Yes |
| Asakusa Line | Nishi-magome | No |
| Asakusa Line | Oshiage | Yes |
| Asakusa Line | Sengakuji | No |
| Asakusa Line | Shimbashi | Yes |
| Asakusa Line | Takanawadai | No |
| Asakusa Line | Takaracho | No |
| Asakusa Line | Togoshi | No |
| Chiyoda Line | Akasaka | No |
| Chiyoda Line | Ayase | No |
| Chiyoda Line | Hibiya | Yes |
| Chiyoda Line | Kasumigaseki | Yes |
| Chiyoda Line | Kita-ayase | No |
| Chiyoda Line | Kita-senju | Yes |
| Chiyoda Line | Machiya | No |
| Chiyoda Line | Meiji-jingumae | Yes |
| Chiyoda Line | Nezu | No |
| Chiyoda Line | Nijubashimae | No |
| Chiyoda Line | Nishi-nippori | No |
| Chiyoda Line | Nogizaka | No |
| Chiyoda Line | Ogawamachi | Yes |
| Chiyoda Line | Omote-sando | Yes |
| Chiyoda Line | Otemachi | Yes |
| Chiyoda Line | Sendagi | No |
| Chiyoda Line | Tameike-sanno | Yes |
| Chiyoda Line | Yoyogi-koen | No |
| Chiyoda Line | Yoyogi-uehara | No |
| Chiyoda Line | Yushima | No |
| Fukutoshin Line | Chikatetsu-akalasuka | Yes |
| Fukutoshin Line | Chikatetsu-narimasu | Yes |
| Fukutoshin Line | Heiwadai | Yes |
| Fukutoshin Line | Higashi-shinjuku | No |
| Fukutoshin Line | Hikawadai | Yes |
| Fukutoshin Line | Ikebukuro | Yes |
| Fukutoshin Line | Kanamecho | Yes |
| Fukutoshin Line | Kita-sando | No |
| Fukutoshin Line | Kotake-mukaihara | Yes |
| Fukutoshin Line | Meiji-jingumae | Yes |
| Fukutoshin Line | Nishi-waseda | No |
| Fukutoshin Line | Senkawa | Yes |
| Fukutoshin Line | Shibuya | Yes |
| Fukutoshin Line | Shinjuku-sanchome | Yes |
| Fukutoshin Line | Wakoshi | Yes |
| Fukutoshin Line | Zoshigaya | No |
| Ginza Line | Akasaka-mitsuke | Yes |
| Ginza Line | Aoyama-itchome | Yes |
| Ginza Line | Asakusa | Yes |
| Ginza Line | Gaiemmae | No |
| Ginza Line | Ginza | Yes |
| Ginza Line | Inaricho | No |
| Ginza Line | Kanda | No |
| Ginza Line | Kyobashi | No |
| Ginza Line | Mitsukoshimae | Yes |
| Ginza Line | Nihombashi | Yes |
| Ginza Line | Omote-sando | Yes |
| Ginza Line | Shibuya | Yes |
| Ginza Line | Shimbashi | Yes |
| Ginza Line | Suehirocho | No |
| Ginza Line | Tameike-sanno | Yes |
| Ginza Line | Tawaramachi | No |
| Ginza Line | Toranomon | No |
| Ginza Line | Ueno | Yes |
| Ginza Line | Ueno-hirokoji | Yes |
| Hanzomon Line | Akasaka-mitsuke | Yes |
| Hanzomon Line | Aoyama-itchome | Yes |
| Hanzomon Line | Hanzomon | No |
| Hanzomon Line | Jimbocho | Yes |
| Hanzomon Line | Kinshicho | No |
| Hanzomon Line | Kiyosumi-shirakawa | No |
| Hanzomon Line | Kudanshita | Yes |
| Hanzomon Line | Mitsukoshimae | Yes |
| Hanzomon Line | Omote-sando | Yes |
| Hanzomon Line | Oshiage | Yes |
| Hanzomon Line | Otemachi | Yes |
| Hanzomon Line | Shibuya | Yes |
| Hanzomon Line | Suitengumae | No |
| Hanzomon Line | Sumiyoshi | Yes |
| Hibiya Line | Ebisu | No |
| Hibiya Line | Ginza | Yes |
| Hibiya Line | Hatchobori | No |
| Hibiya Line | Hibiya | Yes |
| Hibiya Line | Higashi-ginza | Yes |
| Hibiya Line | Hiro-o | No |
| Hibiya Line | Iriya | No |
| Hibiya Line | Iwamotocho | Yes |
| Hibiya Line | Kamiyacho | No |
| Hibiya Line | Kasumigaseki | Yes |
| Hibiya Line | Kayabacho | Yes |
| Hibiya Line | Kita-senju | Yes |
| Hibiya Line | Kodemmacho | No |
| Hibiya Line | Minami-senju | No |
| Hibiya Line | Minowa | No |
| Hibiya Line | Naka-meguro | No |
| Hibiya Line | Ningyocho | Yes |
| Hibiya Line | Roppongi | No |
| Hibiya Line | Tsukiji | No |
| Hibiya Line | Ueno | Yes |
| Hibiya Line | Ueno-hirokoji | Yes |
| Mita Line | Hakusan | No |
| Mita Line | Hasune | No |
| Mita Line | Hibiya | Yes |
| Mita Line | Itabashihoncho | No |
| Mita Line | Itabashikuyakushomae | No |
| Mita Line | Jimbocho | Yes |
| Mita Line | Kasuga | Yes |
| Mita Line | Meguro | Yes |
| Mita Line | Mita | Yes |
| Mita Line | Motohasunuma | No |
| Mita Line | Nishi-sugamo | No |
| Mita Line | Nishi-takashimadaira | No |
| Mita Line | Nishidai | No |
| Mita Line | Onarimon | No |
| Mita Line | Otemachi | Yes |
| Mita Line | Sengoku | No |
| Mita Line | Shibakoen | No |
| Mita Line | Shimura-sakaue | No |
| Mita Line | Shimura0sanchome | No |
| Mita Line | Shin-takashimadaira | No |
| Mita Line | Shinitabashi | No |
| Mita Line | Shirokane-takanawa | Yes |
| Mita Line | Shirokanedai | Yes |
| Mita Line | Sugamo | No |
| Mita Line | Suidobashi | No |
| Mita Line | Takashimadaira | No |
| Mita Line | Uchisaiwaicho | No |
| Namboku Line | Akabane-iwabuchi | No |
| Namboku Line | Akasaka-mitsuke | Yes |
| Namboku Line | Azabu-juban | No |
| Namboku Line | Hon-Komagome | No |
| Namboku Line | Ichigaya | Yes |
| Namboku Line | Iidabashi | Yes |
| Namboku Line | Kasuga | Yes |
| Namboku Line | Komagome | No |
| Namboku Line | Meguro | Yes |
| Namboku Line | Nishigahara | No |
| Namboku Line | Oji | No |
| Namboku Line | Oji-kamiya | No |
| Namboku Line | Roppongi-itchome | No |
| Namboku Line | Shimo | No |
| Namboku Line | Shirokane-takanawa | Yes |
| Namboku Line | Shirokanedai | Yes |
| Namboku Line | Tameike-sanno | Yes |
| Namboku Line | Todaimae | No |
| Namboku Line | Yotsuya | No |
| Shinjuku Line | Akebonobashi | No |
| Shinjuku Line | Bakuroyokoyama | Yes |
| Shinjuku Line | Funabori | No |
| Shinjuku Line | Hamacho | No |
| Shinjuku Line | Higashi-ojima | No |
| Shinjuku Line | Ichigaya | Yes |
| Shinjuku Line | Ichinoe | No |
| Shinjuku Line | Iwamotocho | Yes |
| Shinjuku Line | Jimbocho | Yes |
| Shinjuku Line | Kikukawa | No |
| Shinjuku Line | Kudanshita | Yes |
| Shinjuku Line | Mizue | No |
| Shinjuku Line | Morishita | No |
| Shinjuku Line | Motoyawata | No |
| Shinjuku Line | Nishi-ojima | No |
| Shinjuku Line | Ogawamachi | Yes |
| Shinjuku Line | Ojima | No |
| Shinjuku Line | Shinijuku | No |
| Shinjuku Line | Shinjuku-sanchome | Yes |
| Shinjuku Line | Shinozaki | No |
| Shinjuku Line | Sumiyoshi | Yes |
| Tozai Line | Baraki-nakayama | No |
| Tozai Line | Gyotoku | No |
| Tozai Line | Iidabashi | Yes |
| Tozai Line | Kagurazaka | No |
| Tozai Line | Kasai | No |
| Tozai Line | Kayabacho | Yes |
| Tozai Line | Kiba | No |
| Tozai Line | Kudanshita | Yes |
| Tozai Line | Minami-gyotoku | No |
| Tozai Line | Minami-sunamachi | No |
| Tozai Line | Monzen-nakacho | No |
| Tozai Line | Myoden | No |
| Tozai Line | Nakano | No |
| Tozai Line | Nihombashi | Yes |
| Tozai Line | Nishi-funabashi | No |
| Tozai Line | Nishi-kasai | No |
| Tozai Line | Ochiai | No |
| Tozai Line | Otemachi | Yes |
| Tozai Line | Takadanobaba | No |
| Tozai Line | Takebashi | No |
| Tozai Line | Toyocho | No |
| Tozai Line | Urayasu | No |
| Tozai Line | Waseda | No |
| Yurakucho Line | Akasaka-mitsuke | Yes |
| Yurakucho Line | Chikatetsu-akatsuka | Yes |
| Yurakucho Line | Chikatetsu-narimasu | Yes |
| Yurakucho Line | Edogawabashi | No |
| Yurakucho Line | Ginza-itchome | No |
| Yurakucho Line | Gokokuji | No |
| Yurakucho Line | Heiwadai | Yes |
| Yurakucho Line | Hibiya | Yes |
| Yurakucho Line | Higashi-ikebukuro | No |
| Yurakucho Line | Hikawadai | Yes |
| Yurakucho Line | Ichigaya | Yes |
| Yurakucho Line | Iidabashi | Yes |
| Yurakucho Line | Ikebukuro | Yes |
| Yurakucho Line | Kanamecho | Yes |
| Yurakucho Line | Kojimachi | No |
| Yurakucho Line | Kotake-mukaihara | Yes |
| Yurakucho Line | Sakuradamon | No |
| Yurakucho Line | Senkawa | Yes |
| Yurakucho Line | Shin-kiba | No |
| Yurakucho Line | Shintomicho | No |
| Yurakucho Line | Tatsumi | No |
| Yurakucho Line | Toyosu | No |
| Yurakucho Line | Tsukishima | No |
| Yurakucho Line | Wakoshi | Yes |

1. Tokyo subway map

