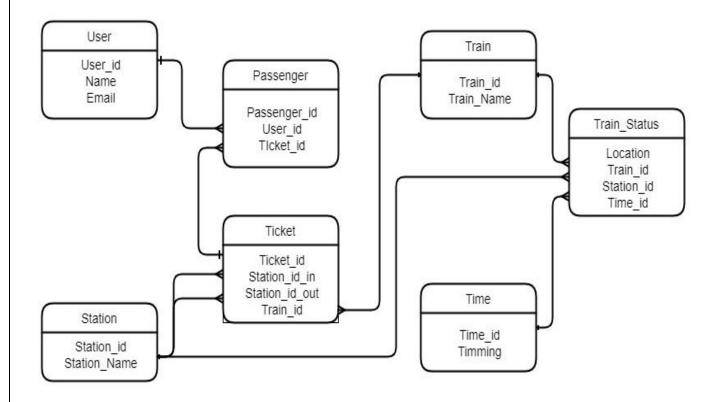
## **ER Diagram**



### Structure of Tables

#### User:

create table user (user\_id int primary key(11), name varchar(20), email varchar(50));

```
ariaDB [(none)]> use train;
atabase changed
ariaDB [train]> desc user;
Field
user_id
           int(11)
                          NO
                                 PRT
                                       NULL
name
           varchar(20)
                          YES
                                       NULL
           varchar(50)
                                       NULL
 rows in set (0.044 sec)
```

#### Passenger:

create table passenger (passenger\_id int(11) primary key, user\_id int(11), ticket\_id int(11)); alter table passenger add constraint fk\_userid foreign key (user\_id) references user(user\_id);

alter table passenger add constraint fk\_ticketid foreign key (ticket\_id) references ticket(ticket\_id);

```
MariaDB [train]> Desc Passenger;
 Field
                           Null
                                  Key
                                         Default
                 Type
                                                    Extra
 passenger_id
                 int(11)
                            NO
                                   PRI
                                          NULL
 user_id
                 int(11)
                            YES
                                   MUL
 ticket id
                 int(11)
                            YES
                                   MUL
                                          NULL
 rows in set (0.013 sec)
```

#### Station:

create table station (station\_id int(11) primary key, station\_name varchar(20));

#### **Train:**

create table train (train\_id int(11) primary key, train\_name varchar(20));

#### Ticket:

create table ticket (ticket\_id int(11) primary key, station\_id\_in int(11), station\_id\_out int(11), train id int(11));

alter table ticket add constraint fk\_stationid foreign key (station\_id\_in) references station(station\_id);

alter table ticket add constraint fk\_stationid2 foreign key (station\_id\_out) references station(station\_id);

alter table ticket add constraint fk\_trainid foreign key (train\_id) references train(train\_id);

```
lariaDB [train]> DESC ticket;
 Field
                                    Key
                 Type
                            Null
 ticket id
                  int(11)
                             NO
                                    PRI
                                           NULL
 station_id_in
                             YES
                  int(11)
                                    MUL
                                           NULL
 station_id_out
                  int(11)
                             YES
                                    MUL
                                           NULL
 train id
                  int(11)
                             YES
                                    MUL
                                           NULL
rows in set (0.025 sec)
```

#### Time:

create table time (time id int(11) primary key, timming time);

```
MariaDB [train]> DESC time;
 Field
                       Null
                                    Default
            Type
                              Key
 time id
           int(11)
                      NO
                              PRI
                                    NULL
  timming
            time
                       YES
                                    NULL
2 rows in set (0.019 sec)
```

#### Train\_status:

create table train\_status (location int(11) primary key, train\_id int(11), station\_id int(11), time\_id int(11));

alter table train\_status add constraint fk\_trainid foreign key (train\_id) references train(train\_id);

alter table train\_status add constraint fk\_stationid1 foreign key (station\_id) references station(station\_id);

alter table train\_status add constraint fk\_timeid foreign key (time\_id) references time(time\_id);

| MariaDB [train]> DESC train_status;                 |  |                         |                          |                              |       |
|---|--|-------------------------|--------------------------|------------------------------|-------|
| Field   |  |                         |                          | Default                      | Extra |
| location<br>  train_id<br>  station_id<br>  time_id | int(11)  <br>  int(11)  <br>  int(11)  <br>  int(11) | NO<br>YES<br>YES<br>YES | PRI<br>MUL<br>MUL<br>MUL | NULL<br>NULL<br>NULL<br>NULL |       |
| 4 rows in set (0.009 sec)                           |  |                         |                          |                              |       |

### **Content of Tables**

#### User:

```
MariaDB [train]> SELECT * FROM user;
 user_id | name
                    email
                     ajay@gmail.com
       1 | Ajay
       2 Abhay
                     abhay@mail.com
           Brijesh |
                    brijesh@email.com
          Chetan
                    chetan@yahoo.in
       5
           Dhawal
                     dhawal@hotmail.co
       6
           Rumit
                     rumit@mail.com
       7
           Varsha
                    varsha@itved.com
       8
         Neha
                    neha@kaggel.com
       9
           Mihir
                     mihir@mail.com
      10 | Shree
                   | shree@gmail.com
10 rows in set (0.003 sec)
```

#### Passenger:

```
MariaDB [train]> SELECT * FROM passenger;;
  passenger_id | user_id | ticket id
                        4
                                    24
                       10
                                    35
                        3
                                    30
             4
                        1
                                    16
                        2
                                    33
                        5
                                    36
             7
                        6
                                    37
             8
                        7
                                    42
             9
                                    16
                        9
             10
                                    31
10 rows in set (0.001 sec)
```

#### Station:

#### Train:

#### Ticket:

| ticket_id | station_id_in | station_id_out | train_id |
|-----------|---------------|----------------|----------|
| 16        |               | 12             | 1        |
| 18        | 1             | 7              | 1        |
| 20        | 3             | 12             | 1        |
| 22        | 7             | 12             | 1        |
| 23        | 5             | 11             | 1        |
| 24        | 2             | 6              | 1        |
| 25        | 10            | 3              | 1        |
| 26        | 11            | 2              | 1        |
| 27        | 9             | 6              | 1        |
| 28        | 7             | 12             | 1        |
| 29        | 11            | 4              | 1        |
| 30        | 6             | 2              | 1        |
| 31        | 1             | 12             | 2        |
| 32        | 1             | 7              | 2        |
| 33        | 3             | 12             | 2        |
| 34        | 7             | 12             | 2        |
| 35        | 5             | 11             | 2        |
| 36        | 2             | 6              | 2        |
| 37        | 10            | 3              | 2        |
| 38        | 11            | 5              | 2        |
| 39        | 9             | 3              | 2        |
| 40        | 7             | 9              | 2        |
| 41        | 11            | 3              | 2        |
| 42        | 6             | 1              | 2        |

#### Time:

```
MariaDB [train]> SELECT * FROM time;
 time_id | timming
       1 | 07:00:00
       2
           07:15:00
       3
         07:30:00
       4
           07:45:00
       5
         08:00:00
       6
         08:15:00
         08:30:00
       7
       8 | 08:45:00
       9 | 09:00:00
      10
         09:15:00
      11 | 09:30:00
      12
         09:45:00
      13
         10:00:00
      14
         10:15:00
      15
         10:30:00
      16
           10:45:00
      17
         11:00:00
      18
         11:15:00
      19
         11:30:00
      20
         12:00:00
      21
         12:15:00
      22
         12:30:00
      23
         12:45:00
      24
         13:00:00
      25
         13:15:00
      26
         13:30:00
      27
         13:45:00
      28
         14:00:00
      29 | 14:15:00
         14:30:00
      30
      31
         14:45:00
      32 | 15:00:00
      33
         15:15:00
      34 | 15:30:00
      35 | 15:45:00
      36
         16:00:00
      37
         16:15:00
      38 | 16:30:00
      39 | 16:45:00
      40 | 17:00:00 |
40 rows in set (0.000 sec)
```

## Train\_Status:

| MariaDB [tra | ain]> SELEC      | T * FROM train    | n_status;  |
|--------------|------------------|-------------------|------------|
| location     | +<br>  train_id  | +<br>  station_id | time_id    |
| 1            | 1                | 1                 | 5          |
| 2            | 1                | 2                 | 6          |
| 3            | 1                | ] 3               | 7          |
| 7            | 1                | 4                 | 8          |
| 8            | 1                | 5                 | 9          |
| 9            | 1                | 6                 | 10         |
| 10           | 1                | 7                 | 11         |
| 11           | 1                | 8                 | 12         |
| 12           | 1                | 9                 | 13         |
| 13           | 1 1              | 10                | 14         |
| 14           | 1<br>  1         | 11                | 15         |
| 15<br>16     | 1 1              | 12<br>  1         | 16<br>  17 |
| 17           | 1 1              |                   | 17         |
| 18           | 1                | 2                 | 19         |
| 19           | 1                | 3                 | 20         |
| 20           | 1                | 4                 | 21         |
| 21           | 1                | 5                 | 23         |
| 22           | 1                | 6                 | 22         |
| 23           | 1                | 7                 | 21         |
| 24           | 1                | 8                 | 20         |
| 25           | 1                | j 9               | 19         |
| 26           | 1                | 10                | 18         |
| 27           | 1                | 11                | 17         |
| 28           | 2                | 2                 | 13         |
| 29           | 2                | ] 3               | 14         |
| 30           | 2                | 4                 | 15         |
| 31           | 2                | 5                 | 16         |
| 32           | 2                | 6                 | 17         |
| 33           | 2                | 7                 | 18         |
| 34           | 2                | 8                 | 19         |
| 35           | 2                | 9                 | 20         |
| 36           | 2                | 10                | 21         |
| 37           | 2                | 11                | 22         |
| 38           | 2                | 12                | 23         |
| 39<br>40     | 2<br>2<br>2<br>2 | 11<br>  10        | 24<br>  25 |
| 40           | 2                | 9                 | 25         |
| 41           | 2                | 8                 | 27         |
| 42           | 2                | 8<br>  7          | 28         |
| 44           | 2                | 6                 | 29         |
| 45           | 2                | 5                 | 30         |
| 46           | 2                | 4                 | 31         |
| 47           | 2                | 3                 | 32         |
| 48           | 2                | 2                 | 33         |
| 49           | 2                | 1                 | 34         |
| +            | +                | +                 | +          |
| 46 rows in s | set (0.000 s     | sec)              |            |

## **Subqueries**

#### Locate the train at a particular time:

select station\_name from station where station\_id in (select station\_id from train\_status where time\_id = (select time\_id from time where timimg='09:30:00') and train\_id = (select train\_id from train where train\_name="Intercity SF Express"));

#### Location from where the individual is travelling:

select station\_name from station where station\_id in (select station\_id\_in from ticket where ticket\_id = (select ticket\_id from passenger where user\_id = (select user\_id from user where name = 'abhay' ))) union select station\_name from station where station\_id in (select station\_id\_out from ticket where ticket\_id = (select ticket\_id from passenger where user\_id = (select user\_id from user where name = 'abhay' )));

#### Name of the train from which user is travelling:

select user.name , train.train\_name from user ,train where user\_id=(select user\_id from user where name = 'dhawal') and train\_id = (select train\_id from ticket where ticket\_id = (select ticket\_id from passenger where user\_id = (select user\_id from user where name = 'dhawal') ));

### **Joins**

## Joining ticket with train and station name to understand where passengers are travelling and by which train:

SELECT ticket.ticket\_id, station.station\_name, train.train\_name FROM ticket join station ON ticket.station\_id\_in = station.station\_id or ticket.station\_id\_out = station.station\_id join train ON train.train id = ticket.train id order by ticket.ticket id;

```
MariaDB [train]> SELECT ticket.ticket_id, station.station_name, train.train_name FROM ticket
join station ON ticket.station_id_in = station.station_id or ticket.station_id_out =
station_id join train ON train.train_id = ticket.train_id order by ticket.ticket_id;
 ticket_id | station_name
                              | train_name
           | Mumbai CSMT
        16
                                Intercity SF Express
         16
                                Intercity SF Express
             Pune Junction
         18
             Mumbai CSMT
                                Intercity SF Express
                                Intercity SF Express
             Khandala
         20
              Pune Junction
                                Intercity SF
                                             Express
                                Intercity SF Express
         20
             Thane
                                Intercity SF Express
         22
             Khandala
             Pune Junction
                                Intercity SF Express
             Neral Junction
                                Intercity SF Express
             Shivaji Nagar
Dadar Central
         23
                                Intercity SF Express
         24
                                Intercity SF Express
         24
              Karjat Junction |
                                Intercity SF Express
                                Intercity SF
                                             Express
         25
             Khakdi
                                Intercity SF Express
                                Intercity SF Express
         26
             Dadar Central
         26
              Shivaji Nagar
                                Intercity SF Express
              Karjat Junction
                                Intercity SF Express
                                Intercity SF Express
              Talegaon
         28
             Khandala
                                Intercity SF Express
                                Intercity SF Express
             Pune Junction
              Shivaji Nagar
                                Intercity SF Express
         29
             Kalyan Junction
                                Intercity SF Express
             Dadar Central
                                Intercity SF Express
         30
                                Intercity SF Express
         30
             Karjat Junction
             Mumbai CSMT
                                Deccan Express
              Pune Junction
                                Deccan Express
         32
             Mumbai CSMT
                                Deccan Express
              Khandala
         32
                                Deccan Express
              Thane
                                Deccan Express
              Pune Junction
                                Deccan Express
              Khandala
                                Deccan Express
             Pune Junction
         34
                                Deccan Express
             Neral Junction
                                Deccan Express
              Shivaji Nagar
                                Deccan Express
             Dadar Central
         36
                                Deccan Express
             Karjat Junction
         36
                                Deccan Express
         37
              Khakdi
                                Deccan Express
                                Deccan Express
         37
              Thane
         38
              Neral Junction
                                Deccan Express
              Shivaji Nagar
                                Deccan Express
         38
         39
              Thane
                                Deccan Express
                                Deccan Express
         39
              Talegaon
         40
              Khandala
                                Deccan Express
         40
              Talegaon
                                Deccan Express
        41
              Thane
                                Deccan Express
              Shivaji Nagar
                                Deccan Express
         41
             Mumbai CSMT
                                Deccan Express
             Karjat Junction | Deccan Express
18 rows in set (0.009 sec)
```

## Joining train\_status to train location, train, and it's time to understand train schedule according to train location and train name:

select train\_status.location, train.train\_name, station.station\_name, time.timimg from train\_status join train on train\_status.train\_id = train.train\_id join station on train\_status.station\_id = station.station\_id join time on train\_status.time\_id = time.time\_id order by time.timming;

| н Бу | time.timming;              |                    |               |
|------|----------------------------|--------------------|---------------|
| tion | train_name                 | station_name       | timming       |
| 1    | <br>  Intercity SF Express | +<br>  Mumbai CSMT | +<br>08:00:00 |
| 2    | Intercity SF Express       | Dadar Central      | 08:15:00      |
| 3    | Intercity SF Express       | Thane              | 08:30:00      |
| 7    | Intercity SF Express       | Kalyan Junction    | 08:45:00      |
| 8    | Intercity SF Express       | Neral Junction     | 09:00:00      |
| 9    | Intercity SF Express       | Karjat Junction    | 09:15:00      |
| 10   | Intercity SF Express       | Khandala           | 09:30:00      |
| 11   | Intercity SF Express       | Lonavala           | 09:45:00      |
| 12   | Intercity SF Express       | Talegaon           | 10:00:00      |
| 28   | Deccan Express             | Dadar Central      | 10:00:00      |
| 29   | Deccan Express             | Thane              | 10:15:00      |
| 13   | Intercity SF Express       | Khakdi             | 10:15:00      |
| 14   | Intercity SF Express       | Shivaji Nagar      | 10:30:00      |
| 30   | Deccan Express             | Kalyan Junction    | 10:30:00      |
| 15   | Intercity SF Express       | Pune Junction      | 10:45:00      |
| 31   | Deccan Express             | Neral Junction     | 10:45:00      |
| 27   | Intercity SF Express       | Shivaji Nagar      | 11:00:00      |
| 32   | Deccan Express             | Karjat Junction    | 11:00:00      |
| 16   | Intercity SF Express       | Mumbai CSMT        | 11:00:00      |
| 17   | Intercity SF Express       | Mumbai CSMT        | 11:15:00      |
| 33   | Deccan Express             | Khandala           | 11:15:00      |
| 26   | Intercity SF Express       | Khakdi             | 11:15:00      |
| 18   | Intercity SF Express       | Dadar Central      | 11:30:00      |
| 34   | Deccan Express             | Lonavala           | 11:30:00      |
| 25   | Intercity SF Express       | Talegaon           | 11:30:00      |
| 24   | Intercity SF Express       | Lonavala           | 12:00:00      |
| 19   | Intercity SF Express       | Thane              | 12:00:00      |
| 35   | Deccan Express             | Talegaon           | 12:00:00      |
| 36   | Deccan Express             | Khakdi             | 12:15:00      |
| 23   | Intercity SF Express       | Khandala           | 12:15:00      |
| 20   | Intercity SF Express       | Kalyan Junction    | 12:15:00      |
| 22   | Intercity SF Express       | Karjat Junction    | 12:30:00      |
| 37   | Deccan Express             | Shivaji Nagar      | 12:30:00      |
| 38   | Deccan Express             | Pune Junction      | 12:45:00      |
| 21   | Intercity SF Express       | Neral Junction     | 12:45:00      |
| 39   | Deccan Express             | Shivaji Nagar      | 13:00:00      |
| 40   | Deccan Express             | Khakdi             | 13:15:00      |
| 41   | Deccan Express             | Talegaon           | 13:30:00      |
| 42   | Deccan Express             | Lonavala           | 13:45:00      |
| 43   | Deccan Express             | Khandala           | 14:00:00      |
| 44   | Deccan Express             | Karjat Junction    | 14:15:00      |
| 45   | Deccan Express             | Neral Junction     | 14:30:00      |
| 46   | Deccan Express             | Kalyan Junction    | 14:45:00      |
| 47   | Deccan Express             | Thane              | 15:00:00      |
| 48   | Deccan Express             | Dadar Central      | 15:15:00      |
| 49   | Deccan Express             | Mumbai CSMT        | 15:30:00      |

## **Views**

# Using views to store above joined tables for future references:

create view ticket\_info as SELECT ticket.ticket\_id, station.station\_name as boarding, station.station\_name as deboarding, train.train\_name FROM ticket join station ON ticket.station\_id\_in = station.station\_id or ticket.station\_id\_out = station\_o.station\_id join train ON train.train id = ticket.train id order by ticket.ticket id;

| cket.station_id_in = station.station_id_or_ticket.station_id_out = station.station_id_join_tain_ON_train_train_id_ = ticket.train_id_order by_ticket.ticket_id; Query_OK, @ rows_affected (@.@25_sec)  MariaDB [train]> select * from ticket_info;  ticket_id  | MariaDB [trai   | .n]> create view ti | cket info as SELEG | CT ticket.ticket_id, sta | ation.station name as |  |  |  |
|--|---|---------------------|--------------------|--------------------------|-----------------------|--|--|--|
| ain ON train.train_id = ticket.train_id order by ticket.ticket_id; Query OK, @ rows affected (0.025 sec)  MariaDB [train]> select * from ticket_info;  ticket_id   boarding   deboarding   train_name    16   Mumbai CSMT   Mumbai CSMT   Intercity SF Express   16   Pune Junction   Pune Junction   Intercity SF Express   18   Khandala   Khandala   Intercity SF Express   18   Mumbai CSMT   Mumbai CSMT   Intercity SF Express   19   Thane   Thane   Thane   Intercity SF Express   20   Thane   Thane   Intercity SF Express   21   Khandala   Khandala   Intercity SF Express   22   Khandala   Khandala   Intercity SF Express   23   Neral Junction   Pune Junction   Intercity SF Express   24   Narjat Junction   Neral Junction   Intercity SF Express   25   Thane   Joadar Central   Joadar Central   Intercity SF Express   26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   27   Karjat Junction   Karjat Junction   Intercity SF Express   28   Dadar Central   Dadar Central   Intercity SF Express   29   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   20   Dadar Central   Dadar Central   Intercity SF Express   21   Talegson    | boarding, station.station_name as deboarding, train.train_name FROM ticket join station ON ti |                     |                    |                          |                       |  |  |  |
| ticket_id   boarding   deboarding   train_name    16   Mumbai CSMT   Mumbai CSMT   Intercity SF Express   16   Pune Junction   Pune Junction   Intercity SF Express   18   Khandala   Khandala   Intercity SF Express   18   Mumbai CSMT   Mumbai CSMT   Intercity SF Express   18   Mumbai CSMT   Mumbai CSMT   Intercity SF Express   19   Pune Junction   Pune Junction   Intercity SF Express   20   Pune Junction   Pune Junction   Intercity SF Express   21   Pune Junction   Pune Junction   Intercity SF Express   22   Pune Junction   Neral Junction   Intercity SF Express   23   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   24   Dadar Central   Dadar Central   Intercity SF Express   25   Khakdi   Khakdi   Intercity SF Express   26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   27   Talegaon   Talegaon   Intercity SF Express   28   Khandala   Khandala   Intercity SF Express   29   Kalyan Junction   Karjat Junction   Intercity SF Express   21   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   22   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   28   Pune Junction   Pune Junction   Intercity SF Express   29   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   30   Dadar Central   Dadar Central   Intercity SF Express   31   Mumbai CSMT   Dadar Central   Intercity SF Express   32   Mandala   Khandala   Daccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Pune Junction   Pune Junction   Deccan Express   35   Shivaji Nagar   Shivaji Nagar   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Khandala   Khandala   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Talegaon   Talegaon   Deccan Express   30   Dadar Central   Dadar Central   Deccan Express   31   Thane   Dadar Central   Decca |   |                     |                    |                          |                       |  |  |  |
| ticket_id   boarding   deboarding   train_name   | Query OK, 0 rows affected (0.025 sec)   |                     |                    |                          |                       |  |  |  |
| 16 Mumbai CSMT   | MariaDB [train]> select * from ticket_info;   |                     |                    |                          |                       |  |  |  |
| 16 Mumbai CSMT   | ++<br>  ticket id   | boarding            | deboarding         | train name               | +<br>                 |  |  |  |
| 16 Pune Junction Pune Junction Intercity SF Express   18 Khandala Khandala Intercity SF Express   18 Mumbai CSMT Mumbai CSMT Intercity SF Express   20 Thane Thane Intercity SF Express   20 Pune Junction Pune Junction Intercity SF Express   21 Pune Junction Pune Junction Intercity SF Express   22 Pune Junction Pune Junction Intercity SF Express   23 Neral Junction Neral Junction Intercity SF Express   24 Dadar Central Dadar Central Intercity SF Express   25 Khaddi Khaddi Intercity SF Express   26 Dadar Central Dadar Central Intercity SF Express   27 Talegaon Talegaon Intercity SF Express   28 Pune Junction Karjat Junction Intercity SF Express   29 Kalyan Junction Karjat Junction Intercity SF Express   20 Kanjat Junction Karjat Junction Intercity SF Express   21 Talegaon Talegaon Intercity SF Express   22 Kanjat Junction Karjat Junction Intercity SF Express   23 Kandala Khandala Intercity SF Express   24 Kanjat Junction Karjat Junction Intercity SF Express   25 Thane Junction Intercity SF Express   26 Shivaji Nagar Intercity SF Express   27 Talegaon Talegaon Intercity SF Express   28 Pune Junction Karjat Junction Intercity SF Express   29 Kalyan Junction Kalyan Junction Intercity SF Express   29 Kalyan Junction Kalyan Junction Intercity SF Express   29 Shivaji Nagar Intercity SF Express   30 Dadar Central Dadar Central Intercity SF Express   31 Mumbai CSMT Deccan Express   32 Kundala Khandala Khandala Deccan Express   33 Thane Thane Deccan Express   34 Khandala Khandala Deccan Express   35 Neral Junction Pune Junction Deccan Express   36 Karjat Junction Deccan Express   37 Thane Thane Deccan Express   38 Neral Junction Neral Junction Deccan Express   39 Neral Junction Neral Junction Deccan Express   31 Thane Thane Deccan Express   32 Khandala Khandala Deccan Express   33 Thane Thane Deccan Express   34 Khandala Khandala Deccan Express   35 Shivaji Nagar Shivaji Nagar Deccan Express   36 Karjat Junction Neral Junction Deccan Express   37 Khakdi Khandala Khandala Deccan Express   38 Shivaji Nagar Shivaji Nagar Decc | +   |                     |                    | + <u>-</u>               | +                     |  |  |  |
| 18 Khandala Khandala Intercity SF Express 18 Mumbai CSMT Intercity SF Express 20 Thane Thane Intercity SF Express 21 Pune Junction Pune Junction Intercity SF Express 22 Pune Junction Pune Junction Intercity SF Express 23 Neral Junction Neral Junction Intercity SF Express 24 Dadar Central Dadar Central Intercity SF Express 25 Khakdi Karjat Junction Intercity SF Express 26 Karjat Junction Intercity SF Express 27 Karjat Junction Intercity SF Express 28 Khakdi Intercity SF Express 29 Khakdi Intercity SF Express 20 Dadar Central Dadar Central Intercity SF Express 20 Dadar Central Dadar Central Intercity SF Express 21 Shivaji Nagar Intercity SF Express 22 Five Shivaji Nagar Intercity SF Express 23 Shivaji Nagar Intercity SF Express 24 Dadar Central Dadar Central Intercity SF Express 25 Shivaji Nagar Intercity SF Express 26 Shivaji Nagar Intercity SF Express 27 Karjat Junction Intercity SF Express 28 Khandala Khandala Intercity SF Express 39 Dadar Central Dadar Central Intercity SF Express 30 Dadar Central Dadar Central Intercity SF Express 30 Dadar Central Dadar Central Intercity SF Express 31 Mumbai CSMT Dadar Central Intercity SF Express 32 Khandala Karjat Junction Intercity SF Express 33 Mumbai CSMT Mumbai CSMT Deccan Express 34 Khandala Khandala Deccan Express 35 Neral Junction Pune Junction Deccan Express 36 Narjat Junction Pune Junction Deccan Express 37 Naral Junction Pune Junction Deccan Express 38 Neral Junction Neral Junction Deccan Express 39 Shivaji Nagar Shivaji Nagar Deccan Express 30 Dadar Central Dadar Central Deccan Express 31 Pune Junction Pune Junction Deccan Express 32 Khandala Khandala Deccan Express 33 Thane Thane Deccan Express 34 Khandala Khandala Deccan Express 35 Neral Junction Neral Junction Deccan Express 36 Narjat Junction Neral Junction Deccan Express 37 Thane Thane Deccan Express 38 Naral Junction Neral Junction Deccan Express 39 Thane Thane Deccan Express 39 Thane Tha | !   |                     |                    |                          |                       |  |  |  |
| 18   Mumbai CSMT   | : :   |                     |                    | Intercity SF Express     | l.                    |  |  |  |
| Thane  | :   |                     |                    | Intercity SF Express     |                       |  |  |  |
| 20   Pune Junction   Pune Junction   Intercity SF Express   22   Khandala   Khandala   Intercity SF Express   23   Neral Junction   Pune Junction   Intercity SF Express   23   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   24   Dadar Central   Dadar Central   Intercity SF Express   25   Khakdi   Khakdi   Intercity SF Express   26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   27   Khakdi   Khakdi   Intercity SF Express   28   Dadar Central   Dadar Central   Intercity SF Express   29   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   20   Dadar Central   Dadar Central   Intercity SF Express   21   Talegaon   Talegaon   Intercity SF Express   22   Talegaon   Talegaon   Intercity SF Express   23   Khandala   Khandala   Intercity SF Express   24   Kapiat Junction   Pune Junction   Intercity SF Express   25   Talegaon   Talegaon   Intercity SF Express   26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   27   Talegaon   Talegaon   Intercity SF Express   28   Pune Junction   Pune Junction   Intercity SF Express   29   Kalyan Junction   Kalyan Junction   Intercity SF Express   30   Dadar Central   Dadar Central   Intercity SF Express   31   Dadar Central   Dadar Central   Intercity SF Express   32   Mumbai CSMT   Mumbai CSMT   Deccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Khandala   Khandala   Deccan Express   35   Shivaji Nagar   Shivaji Nagar   Deccan Express   36   Karjat Junction   Pune Junction   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   39   Shivaji Nagar   Shivaji Nagar   Deccan Express   30   Neral Junction   Neral Junction   Deccan Express   31   Pune Junction   Pune Junction   Deccan Express   32   Namadala   Shivaji Nagar   Deccan Express   33   Neral Junction   Neral Junction   Deccan Express   34   Naral Junction   Neral Junction   Deccan Express   35   Shivaji Nagar   Shivaji Nagar   Deccan Express   36   Narial Junction   Neral Junction   Deccan Express   37   Thane   Thane  | !   |                     |                    | Intercity SF Express     |                       |  |  |  |
| 22   Khandala   Khandala   Intercity SF Express   22   Pune Junction   Pune Junction   Intercity SF Express   23   Neral Junction   Neral Junction   Intercity SF Express   24   Dadar Central   Dadar Central   Intercity SF Express   24   Karjat Junction   Karjat Junction   Intercity SF Express   25   Khakdi   Khakdi   Intercity SF Express   26   Dadar Central   Dadar Central   Intercity SF Express   26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   27   Karjat Junction   Karjat Junction   Intercity SF Express   28   Khandala   Khandala   Intercity SF Express   28   Khandala   Khandala   Intercity SF Express   28   Khandala   Khandala   Intercity SF Express   29   Kalyan Junction   Pune Junction   Intercity SF Express   29   Kalyan Junction   Kalyan Junction   Intercity SF Express   29   Kalyan Junction   Kalyan Junction   Intercity SF Express   30   Dadar Central   Dadar Central   Intercity SF Express   30   Karjat Junction   Karjat Junction   Intercity SF Express   31   Mumbai CSMT   Mumbai CSMT   Deccan Express   32   Khandala   Khandala   Khandala   Deccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Khandala   Khandala   Khandala   Deccan Express   34   Pune Junction   Pune Junction   Deccan Express   35   Neral Junction   Neral Junction   Deccan Express   36   Karjat Junction   Neral Junction   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   39   Thane   Thane   Deccan Express   30   Thane   Thane   Deccan Express   30   Thane   Thane   Deccan Express   30   Thane   Thane   Decc   | !   |                     |                    | Intercity SF Express     | f                     |  |  |  |
| 22   Pune Junction   Pune Junction   Intercity SF Express   23   Neral Junction   Neral Junction   Intercity SF Express   24   Dadar Central   Dadar Central   Intercity SF Express   24   Karjat Junction   Karjat Junction   Intercity SF Express   25   Khakdi   Khakdi   Intercity SF Express   25   Khakdi   Khakdi   Intercity SF Express   26   Dadar Central   Dadar Central   Intercity SF Express   26   Dadar Central   Dadar Central   Intercity SF Express   26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   27   Karjat Junction   Karjat Junction   Intercity SF Express   27   Karjat Junction   Karjat Junction   Intercity SF Express   28   Pune Junction   Pune Junction   Intercity SF Express   28   Ralyan Junction   Karjan Junction   Intercity SF Express   29   Kalyan Junction   Karjan Junction   Intercity SF Express   29   Kalyan Junction   Karjan Junction   Intercity SF Express   29   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   30   Dadar Central   Dadar Central   Intercity SF Express   31   Mumbai CSMT   Mumbai CSMT   Deccan Express   31   Pune Junction   Pune Junction   Deccan Express   32   Mumbai CSMT   Mumbai CSMT   Deccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Khandala   Khandala   Khandala   Deccan Express   35   Neral Junction   Pune Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Pune Junction   Deccan Express   39   Neral Junction   Neral Junction   Deccan Express   39   Thane   Thane   Deccan Express   30   Talegaon   Talegaon   Deccan Express   30   Talegaon   Deccan Express   30   Talegaon   Deccan Express   30   Talegaon     | !   |                     |                    | Intercity SF Express     |                       |  |  |  |
| 23   Neral Junction   Neral Junction   Intercity SF Express  | !   |                     |                    |                          | ĺ                     |  |  |  |
| 24     Dadar Central     Dadar Central     Intercity SF Express       24     Karjat Junction     Karjat Junction     Intercity SF Express       25     Khakdi     Khakdi     Intercity SF Express       25     Thane     Thane     Intercity SF Express       26     Dadar Central     Intercity SF Express       26     Shivaji Nagar     Shivaji Nagar     Intercity SF Express       27     Karjat Junction     Karjat Junction     Intercity SF Express       27     Karjat Junction     Pune Junction     Intercity SF Express       28     Khandala     Khandala     Intercity SF Express       29     Kalyan Junction     Kalyan Junction     Kalyan Junction     Kalyan Junction       29     Shivaji Nagar     Intercity SF Express       30     Dadar Central     Dadar Central     Intercity SF Express       30     Karjat Junction     Karjat Junction     Intercity SF Express       30     Karjat Junction     Karjat Junction     Deccan Express       31     Pune Junction     Pune Junction     Deccan Express       32     Khandala     Khandala     Peccan Express       33     Pune Junction     Pune Junction     Deccan Express       34     Pune Junction     Pune Junction     Deccan Express <td>23</td> <td></td> <td></td> <td></td> <td></td>   | 23  |                     |                    |                          |                       |  |  |  |
| 24   Karjat Junction   Karjat Junction   Intercity SF Express   25   Khakdi  | 23  |                     |                    |                          |                       |  |  |  |
| 25 Khakdi Khakdi Intercity SF Express   26 Dadar Central Dadar Central Intercity SF Express   26 Shivaji Nagar Shivaji Nagar Intercity SF Express   27 Karjat Junction Karjat Junction Intercity SF Express   28 Pune Junction Pune Junction Intercity SF Express   28 Pune Junction Pune Junction Intercity SF Express   29 Kalyan Junction Kalyan Junction Intercity SF Express   29 Kalyan Junction Kalyan Junction Intercity SF Express   29 Shivaji Nagar Shivaji Nagar Intercity SF Express   30 Dadar Central Dadar Central Intercity SF Express   30 Karjat Junction Karjat Junction Intercity SF Express   31 Mumbai CSMT Mumbai CSMT Deccan Express   32 Mumbai CSMT Mumbai CSMT Deccan Express   33 Pune Junction Pune Junction Deccan Express   34 Khandala Khandala Deccan Express   35 Khandala Khandala Deccan Express   36 Neral Junction Pune Junction Deccan Express   37 Thane Thane Deccan Express   38 Neral Junction Neral Junction Deccan Express   39 Shivaji Nagar Shivaji Nagar Deccan Express   30 Karjat Junction Karjat Junction Deccan Express   31 Nagar Shivaji Nagar Deccan Express   32 Khandala Khandala Deccan Express   33 Shivaji Nagar Shivaji Nagar Deccan Express   34 Khandala Khandala Deccan Express   35 Neral Junction Neral Junction Deccan Express   36 Karjat Junction Neral Junction Deccan Express   37 Thane Thane Deccan Express   38 Shivaji Nagar Shivaji Nagar Deccan Express   39 Thane Thane Deccan  | 24  |                     |                    |                          |                       |  |  |  |
| Thane  | 24  | Karjat Junction     | Karjat Junction    |                          |                       |  |  |  |
| Dadar Central   Dadar Central   Intercity SF Express   | !   |                     |                    |                          | l .                   |  |  |  |
| 26   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   27   Karjat Junction   Karjat Junction   Intercity SF Express   28   Pune Junction   Pune Junction   Intercity SF Express   28   Pune Junction   Pune Junction   Intercity SF Express   28   Khandala   Khandala   Intercity SF Express   29   Kalyan Junction   Kalyan Junction   Intercity SF Express   29   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   30   Dadar Central   Dadar Central   Intercity SF Express   30   Karjat Junction   Karjat Junction   Intercity SF Express   31   Mumbai CSMT   Mumbai CSMT   Deccan Express   31   Pune Junction   Pune Junction   Deccan Express   32   Mumbai CSMT   Mumbai CSMT   Deccan Express   32   Khandala   Khandala   Deccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Khandala   Khandala   Deccan Express   34   Khandala   Khandala   Deccan Express   35   Neral Junction   Neral Junction   Deccan Express   36   Karjat Junction   Neral Junction   Deccan Express   37   Neral Junction   Karjat Junction   Deccan Express   38   Karjat Junction   Karjat Junction   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   30   Deccan Express   30   Talegaon   Talegaon   Deccan Express   30   Deccan Express   30   Talegaon   Talegaon   Deccan Express   30   Deccan Express   30   Talegaon   Talegaon   Deccan Express   30   Talegaon   Talegaon   Deccan Express   30   Talegaon   Deccan Express   30   Talegaon   Talegaon   Decc | !   |                     |                    |                          |                       |  |  |  |
| 27Karjat JunctionKarjat JunctionIntercity SF Express27TalegaonTalegaonIntercity SF Express28Pune JunctionPune JunctionIntercity SF Express28KhandalaKhandalaIntercity SF Express29Kalyan JunctionKalyan JunctionIntercity SF Express29Shivaji NagarShivaji NagarIntercity SF Express30Dadar CentralDadar CentralIntercity SF Express30Karjat JunctionKarjat JunctionIntercity SF Express31Mumbai CSMTMumbai CSMTDeccan Express31Pune JunctionPune JunctionDeccan Express32Mumbai CSMTMumbai CSMTDeccan Express32KhandalaDeccan Express33Pune JunctionPune JunctionDeccan Express34KhandalaDeccan Express34KhandalaDeccan Express35Neral JunctionNeral JunctionDeccan Express36Karjat JunctionDeccan Express36Dadar CentralDadar CentralDeccan Express37ThaneThaneDeccan Express38Shivaji NagarShivaji NagarDeccan Express39ThaneThaneDeccan Express39ThaneThaneDeccan Express39ThaneThaneDeccan Express40KhandalaKhandalaDeccan Express40KhandalaKhandalaDeccan Express <td>:</td> <td></td> <td></td> <td></td> <td></td>   | :   |                     |                    |                          |                       |  |  |  |
| Talegaon   Talegaon   Intercity SF Express   | : :   |                     | , ,                |                          |                       |  |  |  |
| 28Pune JunctionPune JunctionIntercity SF Express28KhandalaKhandalaIntercity SF Express29Kalyan JunctionKalyan JunctionIntercity SF Express29Shivaji NagarShivaji NagarIntercity SF Express30Dadar CentralDadar CentralIntercity SF Express30Karjat JunctionIntercity SF Express31Mumbai CSMTMumbai CSMTDeccan Express31Pune JunctionPune JunctionDeccan Express32Mumbai CSMTMumbai CSMTDeccan Express32KhandalaKhandalaDeccan Express33Pune JunctionPune JunctionDeccan Express34KhandalaKhandalaDeccan Express34Pune JunctionPune JunctionDeccan Express35Neral JunctionNeral JunctionDeccan Express36Karjat JunctionNeral JunctionDeccan Express36Dadar CentralDadar CentralDeccan Express37ThaneThaneDeccan Express38Shivaji NagarShivaji NagarDeccan Express39ThaneThaneDeccan Express39ThaneThaneDeccan Express39ThaneThaneDeccan Express39TalegaonDeccan Express40KhandalaKhandalaDeccan Express40TalegaonDeccan Express   | :   |                     | _                  |                          |                       |  |  |  |
| 28KhandalaKhandalaIntercity SF Express29Kalyan JunctionKalyan JunctionIntercity SF Express29Shivaji NagarIntercity SF Express30Dadar CentralDadar CentralIntercity SF Express30Karjat JunctionKarjat JunctionIntercity SF Express31Mumbai CSMTMumbai CSMTDeccan Express31Pune JunctionPune JunctionDeccan Express32Mumbai CSMTDeccan Express32KhandalaKhandalaDeccan Express33Pune JunctionPune JunctionDeccan Express34KhandalaKhandalaDeccan Express34Pune JunctionDeccan Express35Neral JunctionNeral JunctionDeccan Express35Shivaji NagarShivaji NagarDeccan Express36Karjat JunctionKarjat JunctionDeccan Express36Dadar CentralDadar CentralDeccan Express37ThaneThaneDeccan Express38Neral JunctionNeral JunctionDeccan Express38Neral JunctionNeral JunctionDeccan Express39ThaneThaneDeccan Express39ThaneThaneDeccan Express39TalegaonTalegaonDeccan Express40KhandalaKhandalaDeccan Express40TalegaonDeccan Express  | : :   | _                   | 0                  |                          | f                     |  |  |  |
| 29   Kalyan Junction   Kalyan Junction   Intercity SF Express   29   Shivaji Nagar   Shivaji Nagar   Intercity SF Express   30   Dadar Central   Dadar Central   Intercity SF Express   30   Karjat Junction   Karjat Junction   Intercity SF Express   31   Mumbai CSMT   Mumbai CSMT   Deccan Express   31   Pune Junction   Pune Junction   Deccan Express   32   Mumbai CSMT   Mumbai CSMT   Deccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Khandala   Khandala   Deccan Express   35   Neral Junction   Pune Junction   Deccan Express   36   Karjat Junction   Neral Junction   Deccan Express   36   Karjat Junction   Karjat Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   39   Talegaon   Talegaon   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  | :   |                     |                    |                          | f                     |  |  |  |
| 29    Shivaji Nagar  | :   |                     |                    |                          |                       |  |  |  |
| Dadar Central   Dadar Central   Intercity SF Express   | 29  |                     |                    |                          |                       |  |  |  |
| 31   Mumbai CSMT   Mumbai CSMT   Deccan Express   31   Pune Junction   Pune Junction   Deccan Express   32   Mumbai CSMT   Mumbai CSMT   Deccan Express   32   Khandala   Khandala   Deccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Khandala   Khandala   Deccan Express   34   Khandala   Khandala   Deccan Express   35   Neral Junction   Pune Junction   Deccan Express   35   Shivaji Nagar   Shivaji Nagar   Deccan Express   36   Karjat Junction   Karjat Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   39   Thane   Thane   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   39   Talegaon   Talegaon   Deccan Express   39   Talegaon   Talegaon   Deccan Express   30   Talegaon   Talegaon    | j 30 j  | Dadar Central       |                    | Intercity SF Express     |                       |  |  |  |
| Pune Junction   Pune Junction   Deccan Express   | 30  | Karjat Junction     | Karjat Junction    | Intercity SF Express     | 1                     |  |  |  |
| 32Mumbai CSMTMumbai CSMTDeccan Express32KhandalaKhandalaDeccan Express33Pune JunctionDeccan Express33ThaneThaneDeccan Express34KhandalaKhandalaDeccan Express34Pune JunctionPune JunctionDeccan Express35Neral JunctionNeral JunctionDeccan Express35Shivaji NagarShivaji NagarDeccan Express36Karjat JunctionKarjat JunctionDeccan Express36Dadar CentralDadar CentralDeccan Express37ThaneThaneDeccan Express37KhakdiKhakdiDeccan Express38Neral JunctionNeral JunctionDeccan Express38Shivaji NagarShivaji NagarDeccan Express39ThaneThaneDeccan Express39TalegaonTalegaonDeccan Express40KhandalaKhandalaDeccan Express40TalegaonTalegaonDeccan Express  | :   |                     |                    | '                        | l .                   |  |  |  |
| 32   Khandala   Khandala   Deccan Express   33   Pune Junction   Pune Junction   Deccan Express   34   Thane   Thane   Deccan Express   34   Pune Junction   Pune Junction   Deccan Express   35   Neral Junction   Neral Junction   Deccan Express   35   Shivaji Nagar   Shivaji Nagar   Deccan Express   36   Karjat Junction   Karjat Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express   40   Talegaon   Talegaon   Deccan Express   40   Talegaon   Talegaon   Deccan Express  |   |                     |                    | '                        | i.                    |  |  |  |
| 33   Pune Junction   Pune Junction   Deccan Express   34   Khandala   Khandala   Deccan Express   34   Pune Junction   Pune Junction   Deccan Express   35   Neral Junction   Neral Junction   Deccan Express   36   Karjat Junction   Karjat Junction   Deccan Express   36   Karjat Junction   Karjat Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Thane   Thane   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express   40   Talegaon   Talegaon   Deccan Express   40   Talegaon   Talegaon   Deccan Express  | :   |                     |                    | '                        |                       |  |  |  |
| Thane   Thane   Deccan Express    Khandala   Khandala   Deccan Express    Veral Junction   Pune Junction   Deccan Express    Shivaji Nagar   Shivaji Nagar   Deccan Express    Karjat Junction   Karjat Junction   Deccan Express    Carjat Junction   | :   |                     |                    | '                        |                       |  |  |  |
| 34KhandalaKhandalaDeccan Express34Pune JunctionPune JunctionDeccan Express35Neral JunctionNeral JunctionDeccan Express35Shivaji NagarDeccan Express36Karjat JunctionKarjat JunctionDeccan Express36Dadar CentralDadar CentralDeccan Express37ThaneThaneDeccan Express37KhakdiKhakdiDeccan Express38Neral JunctionNeral JunctionDeccan Express38Shivaji NagarShivaji NagarDeccan Express39ThaneThaneDeccan Express39TalegaonTalegaonDeccan Express40KhandalaKhandalaDeccan Express40TalegaonTalegaonDeccan Express  | !   |                     |                    | '                        |                       |  |  |  |
| 34 Pune Junction Pune Junction Deccan Express 35 Neral Junction Neral Junction Deccan Express 35 Shivaji Nagar   Shivaji Nagar Deccan Express 36 Karjat Junction   Karjat Junction Deccan Express 36 Dadar Central   Dadar Central Deccan Express 37 Thane   Thane   Deccan Express 37 Khakdi   Khakdi   Deccan Express 38 Neral Junction   Neral Junction   Deccan Express 38 Shivaji Nagar   Shivaji Nagar   Deccan Express 39 Thane   Thane   Deccan Express 39 Thane   Thane   Deccan Express 39 Talegaon   Talegaon   Deccan Express 40 Khandala   Khandala   Deccan Express 40 Talegaon   Talegaon   Deccan Express  | !   |                     |                    |                          |                       |  |  |  |
| 35   Neral Junction   Neral Junction   Deccan Express   36   Shivaji Nagar   Shivaji Nagar   Deccan Express   36   Karjat Junction   Karjat Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Khakdi   Khakdi   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  | : :   |                     |                    |                          |                       |  |  |  |
| 35   Shivaji Nagar   Shivaji Nagar   Deccan Express   36   Karjat Junction   Karjat Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express   40   Talegaon   Talegaon   Deccan Express  | : :   |                     |                    |                          |                       |  |  |  |
| 36   Karjat Junction   Karjat Junction   Deccan Express   36   Dadar Central   Dadar Central   Deccan Express   37   Thane   Thane   Deccan Express   38   Khakdi   Khakdi   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  |   | Shivaji Nagar       |                    | •                        |                       |  |  |  |
| 37   Thane   Thane   Deccan Express   37   Khakdi   Khakdi   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  | !   | _                   | _                  | '                        |                       |  |  |  |
| 37   Khakdi   Khakdi   Deccan Express   38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  |   |                     |                    |                          |                       |  |  |  |
| 38   Neral Junction   Neral Junction   Deccan Express   38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  |   |                     |                    |                          |                       |  |  |  |
| 38   Shivaji Nagar   Shivaji Nagar   Deccan Express   39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  | :   |                     |                    |                          |                       |  |  |  |
| 39   Thane   Thane   Deccan Express   39   Talegaon   Talegaon   Deccan Express   40   Khandala   Khandala   Deccan Express   40   Talegaon   Talegaon   Deccan Express  | :   |                     |                    |                          |                       |  |  |  |
| 39   Talegaon   Talegaon   Deccan Express  <br>40   Khandala   Khandala   Deccan Express  <br>40   Talegaon   Talegaon   Deccan Express  | : :   |                     |                    | '                        |                       |  |  |  |
| 40   Khandala   Khandala   Deccan Express  <br>40   Talegaon   Talegaon   Deccan Express   | : :   |                     |                    |                          |                       |  |  |  |
| 40   Talegaon   Talegaon   Deccan Express  | :   | •                   | •                  | '                        |                       |  |  |  |
|  | 40  |                     |                    |                          |                       |  |  |  |
|  | 41  | Shivaji Nagar       | Shivaji Nagar      | Deccan Express           |                       |  |  |  |
| 41   Thane   Thane   Deccan Express  | : :   |                     |                    |                          |                       |  |  |  |
| 42   Mumbai CSMT   Mumbai CSMT   Deccan Express  | :   |                     |                    |                          |                       |  |  |  |
| 42   Karjat Junction   Karjat Junction   Deccan Express  | 42  | Karjat Junction     | karjat Junction    | Deccan Express           |                       |  |  |  |
| 48 rows in set (0.003 sec)   | 48 rows in se   | t (0.003 sec)       |                    |                          |                       |  |  |  |
| 10 1013 111 366 (0.003 366)  | 10 10W3 111 36  | (0.003-300)         |                    |                          |                       |  |  |  |

create view schedule as select train\_status.location, train.train\_name, station.station\_name, time.timming from train\_status join train on train\_status.train\_id = train.train\_id join station on train\_status.station\_id = station.station\_id join time on train\_status.time id = time.time id order by time.timming;

MariaDB [train]> create view schedule as select train\_status.location, train.train\_name, stat ion.station\_name, time.timming from train\_status join train on train\_status.train\_id = train. train\_id join station on train\_status.station\_id = station.station\_id join time on train\_stat us.time\_id = time.time\_id order by time.timming; Query OK, 0 rows affected (0.026 sec) MariaDB [train]> select \* from schedule; location | train\_name | station\_name | timming Intercity SF Express | Mumbai CSMT 08:00:00 Intercity SF Express Dadar Central 08:15:00 Intercity SF Express Thane 08:30:00 Intercity SF Express Kalyan Junction 08:45:00 Intercity SF Express Neral Junction 09:00:00 Intercity SF Express Karjat Junction 09:15:00 Intercity SF Express 10 09:30:00 Khandala 11 Intercity SF Express 09:45:00 Lonavala Intercity SF Express Talegaon 10:00:00 28 Deccan Express Dadar Central 10:00:00 29 Deccan Express 10:15:00 Thane Intercity SF Express Khakdi 10:15:00 Intercity SF Express 14 Shivaji Nagar 10:30:00 Kalyan Junction Deccan Express 10:30:00 Intercity SF Express Pune Junction 10:45:00 31 Deccan Express Neral Junction 10:45:00 Intercity SF Express Shivaji Nagar 11:00:00 Karjat Junction 32 Deccan Express 11:00:00 Mumbai CSMT 16 Intercity SF Express 11:00:00 Intercity SF Express 17 33 Mumbai CSMT 11:15:00 Deccan Express Khandala 11:15:00 11:15:00 Intercity SF Express Khakdi 18 Intercity SF Express Dadar Central 11:30:00 34 Deccan Express Lonavala 11:30:00 Intercity SF Express Talegaon 11:30:00 Intercity SF Express Lonavala 12:00:00 Intercity SF Express 19 Thane 12:00:00 Deccan Express Talegaon 12:00:00 36 Deccan Express Khakdi 12:15:00 Intercity SF Express Khandala 12:15:00 Intercity SF Express 20 Kalyan Junction 12:15:00 Intercity SF Express Karjat Junction 22 12:30:00 Deccan Express Shivaji Nagar 12:30:00 38 Deccan Express Pune Junction 12:45:00 Neral Junction Intercity SF Express 12:45:00 39 Shivaji Nagar 13:00:00 Deccan Express 40 Deccan Express Khakdi 13:15:00 Deccan Express Talegaon 13:30:00 42 Deccan Express Lonavala 13:45:00 43 14:00:00 Deccan Express Khandala 44 Deccan Express Karjat Junction 14:15:00 Neral Junction 45 Deccan Express 14:30:00 46 Deccan Express Kalyan Junction 14:45:00 47 15:00:00 Deccan Express Thane 48 Dadar Central 15:15:00 Deccan Express Deccan Express Mumbai CSMT 15:30:00 46 rows in set (0.003 sec)