

### (1) Schema Diagram

## Website and Database Interactions

We connect the back-end(server.js) to mysql using mysql module

With sql.createConnection to connects to the database in the mySQL workbench and Our front-end(react) will send post requests and get requests to the server. The server.js will initiate an SQL queries using prepared SQL statement to prevent SQL injection and send the query to my SQL workbench using the method “.query” on a var connection which is a value returned from the createConnection method above.

localhost:3000/department

[TravelVanka](#) [Department](#) [Reserve](#) [Trip](#)

Add Department

[Change Department TelNo.](#) [Delete Department](#)

**Add department**

Add

Fetch Department Table

Department name	Telephone No.
HumanResources	021111111
IT	022222222
Operation	029999999

*(2)Example Screenshots from the website*

TravelVanka

Department

Reserve

Trip

Add Department

Change Department TelNo.

Delete Department

**Add department**

Administration

0987645321

Add

Fetch Department Table

Department name	Telephone No.
Administration	0987645321
HumanResources	021111111
IT	022222222
Operation	029999999

### 3) Adding data to the database from the website

TravelVanka

Department

Reserve

Trip

Add Department

Change Department TelNo.

Delete Department

**Delete department**

IT

Delete

Fetch Department Table

Department name	Telephone No.
HumanResources	021111111
Operation	029999999

### 4) Deleting data from the database from the website

Insert Reservation

Cancel Reservation

### Insert Reservation

CustomerID

Trip No

Insert

### List of Reservation

2|

List reservation of customer 2

Reservation Code	Reservation Time	Total Fare	Trip No.
2	2018-11-28 07:15:00	20	4
4	2018-11-16 12:30:00	30	2
6	2018-11-28 07:00:00	30	7
7	2018-11-29 07:00:00	25	8

*5)Example of fetching data from the database from the website*

Navigator: createAndInsertV3 exampleQueriesV3 SQL File 6\* x trip feedback van\_maintenance van

**MANAGEMENT**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

**SCHEMAS**

Filter objects

- travelvanka
  - Tables
    - customer
    - department
    - driver
    - employee
    - feedback
    - manager

```

1 # show trip sort by route and deptTime
2 select t.tripNo,
3        s1.stationName as DeptStation, s2.stationName as ArrvStation,
4        t.deptTime ,t.arrvTime ,t.availSeat ,v.vanID ,
5        t.tripRemark
6 from trip t,route r, station s1, station s2,Van v
7 WHERE t.routeID=r.routeID and r.deptStationID=s1.stationID and r.arrvStationID=s2.stationID and t.vanID=v.vanID
8 ORDER BY t.deptTime;
9
10 ;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

tripNo	DeptStation	ArrvStation	deptTime	arrvTime	availSeat	vanID	tripRemark
2	Mochit	Victory Monument	2018-11-28 12:00:00	2018-11-28 13:00:00	5	1	ended
1	Victory Monument	Rangsit	2018-11-28 15:45:00	2018-11-28 16:30:00	13	3	ended
3	Mochit	Victory Monument	2018-11-29 08:00:00	2018-11-29 10:00:00	2	1	departed
4	Mochit	Rangsit	2018-11-29 09:15:00	2018-11-29 09:45:00	5	2	boarding
5	Rangsit	Mochit	2018-11-29 10:00:00	2018-11-29 10:30:00	12	2	NULL
6	Victory Monument	Mochit	2018-11-29 10:30:00	2018-11-29 11:30:00	13	1	NULL
8	Mochit	Rangsit	2018-12-01 08:00:00	2018-12-01 09:00:00	2	1	NULL
7	Mochit	Victory Monument	2018-12-01 12:00:00	2018-12-01 13:00:00	4	2	NULL
9	Victory Monument	Rangsit	2018-12-02 09:00:00	2018-12-02 09:30:00	13	3	NULL

*6)Example of selecting data by joining several tables*