**SQL Supplemental Exercise**

**Name:**

To restore most of the points for your SQL assignments, please complete this “mini-project”.   
  
You are a Database Architect designing a data storage system for the Floople Express Attitude Relaxer company. To be successful, you have to store the following entities:

**1. Floople sources – who provides the material, cost per kilogram, time to deliver**

**2. Logistics transportation – name of the carrier, cost per mile, time to deliver**

**3. Floople Assembly – names of employees, employeeIDnumber, job type, units assembled weekly   
  
 (you can abbreviate or use shorter column names if you wish)**

To score points for this assignment, you must create a database with the three tables and attributes described above, and document your work below. Your system is new, therefore you do not have any helpful tools other than the command line interface to the server. That means you must create the tables and populate the data using SQL commands only. Document your operations by writing each command or taking a screen capture of each command, and then show the results. The required operations are listed below.  
  
1. Create the tables. All attributes are chars or varchars (Your choice) except the costs are in USD, and all times to deliver or units assembled are measured in integers

2. Populate all 3 tables with 4 rows of data. Make sure the cost per kilogram has values between $4 and $5 per kilogram, the cost per mile is between $1.35 and $2.25, time to deliver is between 30 and 45, and units assembled is between 10 and 20.

3. Modify the logistics table to include a ‘satisfaction’ attribute. Populate this column with a rating system of your own choice.

4. Perform a query using SELECT and other modifiers to return the following values. Use the SQL commands to validate the results, meaning the SQL command **must** have the **aggregate functions** to perform the math.

a) least expensive source provider

b) slowest transportation route

c) most productive worker

d) total production in one week

6. Perform additional queries to determine:

a) the top 2 fastest source providers

b) the best performing logistics carrier

---NO-1

create table floople\_sources(

who\_provides\_material varchar(100),

cost\_per\_kg numeric,

time\_to\_deliver int8)

select \* from floople\_sources;

create table logistics\_transportation(

name\_of\_carrier varchar(100),

cost\_per\_mile numeric,

time\_to\_deliver int8)

select \* from logistics\_transportation;

create table floople\_assembly(

name\_of\_employees varchar(100),

Employee\_id varchar(10),

job\_type varchar(10),

units\_assembled\_weekly int8);

------no-2

insert into floople\_sources(who\_provides\_material,cost\_per\_kg,time\_to\_deliver)

values('nick\_tech',4.5,38),

('general\_micr',4.8,35),

('smith\_and\_co',4.6,40),

('jack\_tech',4.2,44);

insert into logistics\_transportation(name\_of\_carrier,cost\_per\_mile,time\_to\_deliver)

values('urban\_transpport',1.50,44),

('delux\_transport',2,34),

('express\_transport',1.80,38),

('quality\_transport',2.23,41);

insert into floople\_assembly(name\_of\_employees,Employee\_id,job\_type,units\_assembled\_weekly)

values('mike','1002','full\_time',500),

('amar','1050','part\_time',220),

('ravi','1100','full\_time',480),

('rohit','1008','full\_time',550);

select \* from logistics\_transportation;

-------no-3

alter table logistics\_transportation add column satisfaction int;

update logistics\_transportation

set satisfaction=8

where name\_of\_carrier ='urban\_transpport';

update logistics\_transportation

set satisfaction=7

where name\_of\_carrier ='delux\_transport';

update logistics\_transportation

set satisfaction=9

where name\_of\_carrier ='express\_transport';

update logistics\_transportation

set satisfaction=6

where name\_of\_carrier ='quality\_transport';

---------NO-4

select \* from floople\_sources;

select \* from logistics\_transportation;

select \* from floople\_assembly;

----a

select who\_provides\_material,min(cost\_per\_kg)least\_expensive,time\_to\_deliver from floople\_sources;

----b

select name\_of\_carrier,cost\_per\_mile,max(time\_to\_deliver)slowest\_route,satisfaction from logistics\_transportation;

----c

select name\_of\_employees,Employee\_id,job\_type,max(units\_assembled\_weekly) from floople\_assembly;

----d

select sum(units\_assembled\_weekly) from floople\_assembly

-----NO-6

----a

select \* from floople\_sources order by time\_to\_deliver desc limit 2;

----b

select \* from logistics\_transportation order by satisfaction desc limit 1;

--order by ;