Lab 4 Solutions

1. **Create the following tables with correct data types according to the aforementioned three tables**

**supplier\_qty(sno, max\_qty, min\_qty, avg\_qty, total\_qty)**

**part\_qty(pno, max\_qty, min\_qty, avg\_qty, total\_qty)**

**supplier\_analysis(sno, extra\_status)**

**Here, max\_qty is the maximum quantity, min\_qty refers to minim um quantity, avg\_qty represents the average quantity and total\_qty gives the total quantity of that group. The extra\_status means the extra status of this specific supplier compared with the average status. In supplier\_analysis table, we require only those suppliers whose status is greater than the average status.**

**Using the data in ops$yyang00.s, ops$yyang00.p and ops$yyang00.sp to populate supplier\_qty, part\_qty and supplier\_analysis table.**

**Create table supplier\_qty (  
sno char(3) primary key,  
max\_qty number(3),  
min\_qty number(3),  
avg\_qty number(3),  
total\_qty number(4));**

**Insert into supplier\_qty  
select sno, max(qty), min(qty), avg(qty), sum(qty) from ops$yyang00.sp  
group by sno;**

**Create table part\_qty(  
pno char(3) primary key,  
max\_qty number(3),  
min\_qty number(3),  
avg\_qty number(3),  
total\_qty number(4));**

**Insert into part\_qty   
select pno, max(qty), min(qty), avg(qty), sum(qty) from ops$yyang00.sp  
group by pno;   
  
Create table supplier\_analysis(  
sno char(3) primary key,  
extra\_status number(3));**

**Insert into supplier\_analysis  
select sno,** **status-(select avg(status) from ops$yyang00.s) extra  
from ops$yyang00.s where status-(select avg(status) from** **ops$yyang00.s)>0;**

**2. Do the following queries**

**a. List the total delivery quantity of those suppliers whose status is greater than the average status**

**select sum(total\_qty) from supplier\_qty, supplier\_analysis where supplier\_qty.sno=supplier\_analysis.sno;**

**b. List all supplier’s names whose maximum delivery is less than half of its total delivery**

**select sname from s, supplier\_qty   
where s.sno=supplier\_qty.sno and max\_qty\*2<=total\_qty;**

**c. List the number of parts delivered with the maximum difference between its maximum quantity and minimum quantity**

**select sum(total\_qty) from part\_qty where max\_qty-min\_qty=(select max(max\_qty-  
min\_qty) from part\_qty);**