Possible SQL queries:

input: RED; output: BLUE

1. List all the inspection scores of “Panda Express”. **NAME 改过**

select dbms\_program.record\_id, score, activity\_date from DBMS\_INSPECTION natural join DBMS\_PROGRAM

where program\_name LIKE ‘PANDA EXPRESS%’ and rownum < 10;

1. What are the problems with this restaurant or food vendor? **ZIP+NAME**

select DISTINCT violation\_description from DBMS\_VIOLATION natural join DBMS\_INSPECTION natural join DBMS\_PROGRAM NATURAL JOIN DBMS\_FACILITY

NATURAL JOIN DBMS\_LIE\_IN NATURAL JOIN DBMS\_REGION

where program\_name LIKE '....%' AND ZIP = '....'

1. Calculate the average score for all “Panda Express” in each region? **NAME 改过**

select zip, avg(score) from DBMS\_PROGRAM, DBMS\_REGION, DBMS\_INSPECTION, DBMS\_LIE\_IN, DBMS\_FACILITY

where program\_name LIKE 'PANDA EXPRESS%' and DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID and DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID and

DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP and

DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID

group by zip order by avg(score) ;

1. Which restaurants or food vendors in the region with zip code = 90011 have the highest inspection score? **ZIP+Time**

select program\_name, score from DBMS\_PROGRAM, DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_REGION, DBMS\_LIE\_IN

where DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP AND DBMS\_REGION.ZIP = '90011' and DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID and DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID and

DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID and

score >= all (

select score from DBMS\_PROGRAM DBMS\_PROGRAM, DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_REGION, DBMS\_LIE\_IN

where DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP AND DBMS\_REGION.ZIP = '90011' and DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID and DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID and

DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID) and activity\_date >= '08-DEC-15' and activity\_date <= '08-DEC-17'

1. Find the highest score “Panda Express” restaurant in each region. **NAME 改过(讲)**

select zip, score，dbms\_program.program\_name, facility.address from DBMS\_PROGRAM, DBMS\_REGION, DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where program\_name LIKE 'PANDA EXPRESS%' and DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID

AND DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID

AND DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP AND DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID

and score >= all (

select score from DBMS\_PROGRAM, DBMS\_REGION, DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where program\_name LIKE 'PANDA EXPRESS%' and DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID AND

DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID AND

DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP) AND DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID

1. List top 10 restaurants or food vendors has the highest inspection score in the region with zip code = 90011. **ZIP+TIME（讲）**

select \* from (select program\_name, score from DBMS\_PROGRAM, DBMS\_REGION, DBMS\_INSPECTION, DBMS\_LIE\_IN, DBMS\_FACILITY

where DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID and DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID and

DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP AND

DBMS\_REGION.ZIP = '90011' and

DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID and

activity\_date >= '08-12月 -15' and activity\_date <= '08-12月 -17'

order by score desc) where rownum <=10

1. List all the restaurants or food vendors with their addresses that have inspection scores ranged from 80 ~ 90 and are in the region with zip code = 90013.

**ZIP + SCORE（讲）**

select program\_name, facility\_address from DBMS\_PROGRAM natural join DBMS\_FACILITY natural join DBMS\_INSPECTION natural join DBMS\_REGION natural join DBMS\_LIE\_IN

where zip = '90013' and score >= 80 and score <= 90

1. List all restaurants or food vendors that are owned by “John Smith”. **OWNER（带过）**

select program\_name from DBMS\_PROGRAM, DBMS\_FACILITY , DBMS\_LIE\_IN , DBMS\_OWNER

where DBMS\_OWNER.owner\_name = 'GARDUNO, RICARDO' AND DBMS\_OWNER.OWNER\_ID = dbms\_facility.owner\_id AND dbms\_facility.facility\_id = dbms\_lie\_in.facility\_id

AND dbms\_lie\_in.record\_id = dbms\_program.record\_id

1. Find the region which has the highest average score for all restaurants or food vendors.

select zip, avg(score) from DBMS\_PROGRAM natural join DBMS\_REGION natural join DBMS\_FACILITY natural join DBMS\_INSPECTION natural join DBMS\_LIE\_IN m

group by zip

having avg(score) >= all (

select avg(score) from m)

1. Find the region that has more than 1 “Panda Express”. **NAME**

select zip, count (distinct dbms\_program.record\_id ) from DBMS\_PROGRAM, DBMS\_REGION, DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where program\_name LIKE 'PANDA EXPRESS%' AND DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID

and DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID and

DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP and

DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID

group by zip

having count (\*) > 1;

1. Find all the restaurants or food vendors that has been inspected < 3 times in zip = 90013. **ZIP+COUNT （讲）**

select \* from (select DBMS\_PROGRAM.program\_name from DBMS\_PROGRAM, DBMS\_INSPECTION, DBMS\_FACILITY, DBMS\_LIE\_IN

where DBMS\_PROGRAM.record\_id = DBMS\_LIE\_IN.record\_id and

DBMS\_INSPECTION.record\_id = DBMS\_PROGRAM.record\_id and

DBMS\_LIE\_IN.facility\_id = DBMS\_FACILITY.facility\_id AND

DBMS\_FACILITY.facility\_zip = ‘90013’

group by DBMS\_PROGRAM.program\_name

having count(distinct DBMS\_INSPECTION.serial\_number) < 3)

where rownum <= 30\\;

1. Find the owners whose restaurants or food vendors have more than 10 types of ]]violations in total and their average score is less than 80. **COUNT+SCORE（讲）**

SELECT \* FROM (select owner\_name, owner\_id, count (DISTINCT VIOLATION\_CODE) AS "TOTAL NUMBER OF VIOLATION TYPES", avg (score) from DBMS\_OWNER natural join DBMS\_VIOLATE natural join DBMS\_FACILITY natural join DBMS\_LIE\_IN natural join DBMS\_INSPECTION m

WHERE ACTIVITY\_DATE >= '08-12月 -15' AND ACTIVITY\_DATE <= '08-12月 -16'

group by owner\_name, owner\_id

having count (DISTINCT VIOLATION\_CODE) > 10 AND avg (score) < 80 ORDER BY avg (score)

)WHERE ROWNUM <=10

1. Find the region that has the highest probability to be found violations (here, P = # of programs in this region that have violations / # of programs in this region in total)

select zip from DBMS\_VIOLATE, DBMS\_INSPECTION, DBMS\_FACILITY, DBMS\_LIE\_IN

where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

DBMS\_INSPECTION.serial\_number = DBMS\_VIOLATE.serial\_number

group by zip

having (count (\*) / (

select count (\*) from m where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

DBMS\_INSPECTION.serial\_number = DBMS\_VIOLATE.serial\_number))

>= all (select

1. Show the inspection and violation information of a specific restaurant or food vendor. **ZIP+Name（讲）**

select dbms\_program.record\_id, program\_name, dbms\_inspection.serial\_number, score, grade, activity\_date, service\_code, service\_description,

dbms\_inspection.employee\_id, dbms\_violate.violation\_code, violation\_description, violation\_status, program\_status

from dbms\_inspection, dbms\_violate, dbms\_violation, dbms\_program, DBMS\_FACILITY, DBMS\_LIE\_IN

where dbms\_inspection.record\_id = dbms\_program.record\_id and dbms\_violation.violation\_code = dbms\_violate.violation\_code

and dbms\_violate.serial\_number = dbms\_inspection.serial\_number and DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID AND DBMS\_FACILITY.FACILITY\_ID = DBMS\_LIE\_IN.facility\_id

and dbms\_program.program\_name like '%PANDA%' AND DBMS\_FACILITY.facility\_zip = '90013'

INSERT INTO DBMS\_USER

VALUE ( ‘INPUT 1 EMAIL’, ‘INPUT 2 PASSWORD’, ‘INPUT 3 ZIP’)

INSERT INTO DBMS\_EMPLOYEE

VALUE (‘INPUT 4 EMPLOYEE ID’, ‘INPUT 1 EMAIL’)

15. Find the employees who made inspections on more than 1 restaurants in zip = 90013 **ZIP**

select DBMS\_EMPLOYEE.employee\_id from DBMS\_EMPLOYEE, DBMS\_INSPECTION, DBMS\_FACILITY, DBMS\_LIE\_IN

where DBMS\_EMPLOYEE.employee\_id = DBMS\_INSPECTION.employee\_id and

DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and

DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

DBMS\_FACILITY.facility\_zip = '90013'

group by DBMS\_EMPLOYEE.employee\_id

having count(distinct DBMS\_INSPECTION.record\_id) > 1;

16. Find all the owners who initiate inspection by themselves, and output the prgram\_name as well. 输入**SERVICE\_DESCRIPTION+zip**

select DBMS\_OWNER.owner\_name, DBMS\_PROGRAM.program\_name ,facility\_address from DBMS\_OWNER, DBMS\_PROGRAM, DBMS\_INSPECTION, DBMS\_FACILITY, DBMS\_LIE\_IN

where DBMS\_INSPECTION.service\_description = 'OWNER INITIATED ROUTINE INSPECT.' and

DBMS\_OWNER.owner\_id = DBMS\_FACILITY.owner\_id and

DBMS\_PROGRAM.record\_id = DBMS\_LIE\_IN.record\_id and

DBMS\_INSPECTION.record\_id = DBMS\_PROGRAM.record\_id and

DBMS\_LIE\_IN.facility\_id = DBMS\_FACILITY.facility\_id and dbms\_facility.facility\_zip = '90013'

17. Find “Panda Express” restaurant in each region with the score between 90~95.

select DBMS\_PROGRAM.program\_name from DBMS\_PROGRAM, DBMS\_REGION, DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where program\_name LIKE 'PANDA EXPRESS%' and DBMS\_PROGRAM.RECORD\_ID = DBMS\_LIE\_IN.RECORD\_ID and

DBMS\_LIE\_IN.FACILITY\_ID = DBMS\_FACILITY.FACILITY\_ID and

DBMS\_FACILITY.FACILITY\_ZIP = DBMS\_REGION.ZIP and DBMS\_INSPECTION.RECORD\_ID = DBMS\_PROGRAM.RECORD\_ID and

score >= 90 and score <= 95

group by DBMS\_PROGRAM.program\_name

18. Find all the restaurants in zip = 90013 that have seats high risk during inspection.

select DBMS\_PROGRAM.program\_name from DBMS\_PROGRAM, DBMS\_FACILITY, DBMS\_LIE\_IN, DBMS\_PE, DBMS\_HAVE\_PE

where DBMS\_PE.pe\_description like '%RESTAURANT%' and

DBMS\_PE.pe\_description like '%SEATS HIGH RISK%' and

DBMS\_PROGRAM.record\_id = DBMS\_LIE\_IN.record\_id and

DBMS\_HAVE\_PE.record\_id = DBMS\_PROGRAM.record\_id and

DBMS\_LIE\_IN.facility\_id = DBMS\_FACILITY.facility\_id and

DBMS\_HAVE\_PE.PROGRAM\_ELEMENT\_PE = DBMS\_PE.PROGRAM\_ELEMENT\_PE and

DBMS\_FACILITY.facility\_zip = '90013';

19. **曲线图** Find the trend of the number of violations for each ‘PANDA EXPRESS’ in zip = 91355 by the timeline.

select count(DBMS\_VIOLATE.violation\_code), DBMS\_PROGRAM.record\_id, DBMS\_INSPECTION.activity\_date from DBMS\_PROGRAM, DBMS\_VIOLATE, DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where DBMS\_PROGRAM.program\_name LIKE 'PANDA EXPRESS%' and DBMS\_PROGRAM.record\_id = DBMS\_LIE\_IN.record\_id and

DBMS\_INSPECTION.record\_id = DBMS\_PROGRAM.record\_id and

DBMS\_LIE\_IN.facility\_id = DBMS\_FACILITY.facility\_id and

DBMS\_VIOLATE.serial\_number = DBMS\_INSPECTION.serial\_number and

DBMS\_FACILITY.facility\_zip = '91355'

group by DBMS\_PROGRAM.record\_id, DBMS\_INSPECTION.activity\_date;

20. 所有没有violation的饭店及其record\_id in zip = 91355.

select distinct program\_name, dbms\_program.record\_id from dbms\_program,dbms\_inspection, dbms\_facility, dbms\_lie\_in

where DBMS\_PROGRAM.record\_id = DBMS\_INSPECTION.record\_id and

DBMS\_LIE\_IN.facility\_id = DBMS\_FACILITY.facility\_id and

DBMS\_PROGRAM.record\_id = DBMS\_LIE\_IN.record\_id and

DBMS\_FACILITY.facility\_zip = '91355' and

dbms\_program.record\_id not in

( select DBMS\_PROGRAM.record\_id from DBMS\_PROGRAM, DBMS\_INSPECTION, DBMS\_VIOLATE

where DBMS\_PROGRAM.record\_id = DBMS\_INSPECTION.record\_id and

DBMS\_INSPECTION.serial\_number = DBMS\_VIOLATE.serial\_number) order by dbms\_program.record\_id

predict queries:

1. input zip = 90013, 分别output score > 90, < 90,

预测在下次检查中有大于百分之80概率分数大于90分的所有项目名称

restaurant names which have over 80 percent of haing their scores greater than 90 in next inspection

select program\_name from dbms\_program, dbms\_lie\_in, dbms\_facility

where dbms\_lie\_in.record\_id = dbms\_program.record\_id and dbms\_facility.facility\_id = dbms\_lie\_in.facility\_id

and dbms\_facility.facility\_zip = '90013'

and dbms\_program.record\_id in

(with c as (select record\_id, count(\*) as a from dbms\_inspection natural join dbms\_program

where score > 90

group by record\_id),

d as (select record\_id, count(\*) as b from dbms\_inspection natural join dbms\_program d

where score < 90

group by record\_id) ,

e as (select c.record\_id ,c.a, d.b from c,d where c.record\_id = d.record\_id)

select record\_id from e where (a/(a+b))\*100 >80)

2. 预测在下次检查中出现violation概率小于95%的所有zip

region have probability less than 95 percent of having a violation in next inspection

with a as (select facility\_zip, count(distinct DBMS\_INSPECTION.record\_id) as b from DBMS\_VIOLATE, DBMS\_INSPECTION, DBMS\_FACILITY, DBMS\_LIE\_IN

where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

DBMS\_INSPECTION.serial\_number = DBMS\_VIOLATE.serial\_number

group by facility\_zip) ,

c as (select facility\_zip, count(distinct DBMS\_INSPECTION.record\_id) as d from dbms\_inspection, DBMS\_lie\_in, dbms\_facility

where DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id group by facility\_zip),

e as (select a.facility\_zip, a.b, c.d from a,c where a.facility\_zip = c.facility\_zip )

select facility\_zip from e where (b/d)\*100 < 95

3. 预测在下次检查中出现violation概率最大的zip

region have largest probability of having a violation in next inspection

with a as (select facility\_zip, count(distinct DBMS\_INSPECTION.record\_id) as b from DBMS\_VIOLATE, DBMS\_INSPECTION, DBMS\_FACILITY, DBMS\_LIE\_IN

where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and

DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

DBMS\_INSPECTION.serial\_number = DBMS\_VIOLATE.serial\_number

group by facility\_zip) ,

c as (select facility\_zip, count(distinct DBMS\_INSPECTION.record\_id) as d from dbms\_inspection, DBMS\_lie\_in, dbms\_facility

where DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id group by facility\_zip),

e as (select a.facility\_zip, a.b, c.d from a,c where a.facility\_zip = c.facility\_zip )

select

facility\_zip from e where (b/d)\*100 = (max ((b/d)\*100) from e)

4.

预测某一项目下次最有可能的violation（输入program name,输出表格）

the most possibale violations which will happen in next inspection for different pandas

with a as (select dbms\_program.record\_id as b, dbms\_program.program\_name as c, dbms\_violation.violation\_code as d, count(\*) as e,

dbms\_violation.violation\_description as f, violation\_status as g

from dbms\_program, dbms\_violate, dbms\_violation, dbms\_inspection

where dbms\_program.record\_id = dbms\_inspection.record\_id and dbms\_inspection.serial\_number = dbms\_violate.serial\_number

and dbms\_violate.violation\_code = dbms\_violation.violation\_code

and dbms\_program.program\_name like '%PANDA%'

group by dbms\_program.record\_id, dbms\_program.program\_name, dbms\_violation.violation\_code, dbms\_violation.violation\_description, dbms\_violation.violation\_status

order by dbms\_program.record\_id, count(\*) desc)

select a.b AS “record\_id”,a.c as “program\_name”,a.d as “violation\_code”,a.f as “description”,a.g as “status” from a , (select a.b as l,max(a.e) as t from a group by a.b ) p where a.b = p.l and a.e = p.t order by a.b

5. 折线图 输入program\_name like PANDA, zip,**output** record\_id,date and score.

select DBMS\_PROGRAM.record\_id,activity\_date, score from DBMS\_INSPECTION , DBMS\_PROGRAM ,dbms\_facility,dbms\_lie\_in

where DBMS\_INSPECTION.record\_id = DBMS\_PROGRAM.record\_id and dbms\_facility.facility\_id = dbms\_lie\_in.facility\_id

and dbms\_lie\_in.record\_id = dbms\_program.record\_id

and DBMS\_PROGRAM.program\_name like '%PANDA EXPRESS%' and dbms\_facility.facility\_zip = '91355'

order by DBMS\_PROGRAM.record\_id;

6. 柱状图（基础条形图）：zip = 90013不同分数段program的个数

(select '80~85' ,count (\*) from DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and

DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

dbms\_facility.facility\_zip = '90013' and score > 80 and score <= 85) union

(select '85~90',count (\*) from DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and

DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

dbms\_facility.facility\_zip = '90013' and score > 85 and score <= 90) union

(select '90~95', count (\*) from DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and

DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

dbms\_facility.facility\_zip = '90013' and score > 90 and score <= 95

) union

(select '95~100', count (\*) from DBMS\_FACILITY, DBMS\_INSPECTION, DBMS\_LIE\_IN

where DBMS\_FACILITY.facility\_id = DBMS\_LIE\_IN.facility\_id and

DBMS\_LIE\_IN.record\_id = DBMS\_INSPECTION.record\_id and

dbms\_facility.facility\_zip = '90013' and score > 95 and score <= 100)

7.

饼状图：一个项目在所有检查中，各个violation占比（输入record\_id 输出violation description 和 percentage）

select violation\_description , 100\*count(\*)/(select count(\*) from dbms\_inspection,dbms\_violate, dbms\_violation where dbms\_inspection.serial\_number = dbms\_violate.serial\_number and

dbms\_violate.violation\_code = dbms\_violation.violation\_code and record\_id = 'PR0025203') as percentage from dbms\_inspection,dbms\_violate, dbms\_violation

where dbms\_inspection.serial\_number = dbms\_violate.serial\_number and

dbms\_violate.violation\_code = dbms\_violation.violation\_code and record\_id = 'PR0025203'

group by dbms\_violation.violation\_code, violation\_description order by violation\_description

8. 预测一个项目明年的分数

select dbms\_program.record\_id,dbms\_program.program\_name,avg(score)as “next inspection score” from dbms\_inspection,dbms\_program where DBMS\_PROGRAM.PROGRAM\_NAME LIKE '%PANDA%' GROUP BY dbms\_program.record\_id,dbms\_program.program\_name

9. 输入program\_name, zip, 输出record\_id, date, score

select DBMS\_PROGRAM.record\_id,activity\_date, score from DBMS\_INSPECTION , DBMS\_PROGRAM ,dbms\_facility,dbms\_lie\_in

where DBMS\_INSPECTION.record\_id = DBMS\_PROGRAM.record\_id and dbms\_facility.facility\_id = dbms\_lie\_in.facility\_id

and dbms\_lie\_in.record\_id = dbms\_program.record\_id

and DBMS\_PROGRAM.program\_name like '%PANDA EXPRESS%' and dbms\_facility.facility\_zip = '91355'

order by DBMS\_PROGRAM.record\_id,activity\_date