

Jozef Gjidoda

Database Management

Section 902

Dr.Schwartz

Lab 3

Query 21 Vendors:

Park names that receive a delivery of at least one snack from Vendor CostMore.

SQL Statement:

```
SELECT DISTINCT P.PARKNAME  
FROM DELIVERS D, VENDORS V, PARKS P  
WHERE V.VENDORNAME = 'CostMore';
```

Table:

PARKNAME
DB2Field
OraclePark
TeradataField
MySQLPark
MongoField
PostgreSQLPark
AccessStadium

Cardinality: 7

Query 22 Vendors:

Vendor numbers for vendors with region lower than ScamsClub.

SQL Statement:

```
SELECT TARGET_V.VNUM  
FROM VENDORS TARGET_V, VENDORS VENDOR_SC
```

WHERE VENDOR_SC.VENDORNAME = 'ScamsClub'
AND TARGET_V.REGION < VENDOR_SC.REGION;

Table:

VNUM
V10
V20

Cardinality: 2

Query 23 Vendors:

Park numbers for parks whose city is alphabetically first.

SQL Statement:

```
SELECT P.PNUM  
FROM PARKS P  
ORDER BY P.LOCATION;
```

Table:

PNUM
P500
P700
P300
P400
P200
P600
P100

Cardinality: 7

Query 24 Vendors:

Park numbers for parks that receive deliveries of snack s10 with an average amount greater than the greatest quantity of any snack delivered to park p100.

SQL Statement:

```

SELECT DEL_1.PNUM
FROM DELIVERS DEL_1, DELIVERS DEL_2
WHERE DEL_2.PNUM = 'P100'
AND DEL_1.SNUM = 'S10'
GROUP BY DEL_1.PNUM
HAVING AVG(DEL_1.AMOUNT) >= MAX(DEL_2.AMOUNT);

```

Table:

PNUM
P400

Cardinality: 1

Query 25 Vendors:

Park numbers for parks that receive deliveries of snack s10 with an amount greater than the average delivery amount of snack s10 for the corresponding park.

SQL Statement:

```

SELECT DEL_1.VNUM
FROM DELIVERS DEL_1, DELIVERS DEL_2
WHERE DEL_1.SNUM = 'S10'
GROUP BY DEL_1.VNUM
HAVING AVG(DEL_2.AMOUNT) < AVG(DEL_1.AMOUNT);

```

Table:

VNUM
V10

Cardinality: 1

Query 26 Vendors:

All cities where at least one vendor, snack or park is located.

SQL Statement:

```
SELECT DISTINCT P.LOCATION
FROM PARKS P

UNION

SELECT DISTINCT V.HQLOC
FROM VENDORS V

UNION

SELECT DISTINCT S.SOURCECITY
FROM SNACKS S;
```

Table:

LOCATION
LosAngeles
Miami
NewOrleans
Poughkeepsie
Seattle

Cardinality: 5

Query 27 Vendors:

Snack numbers for snacks that are delivered to a vendor or park based out of Los Angeles.

SQL Statement:

```
SELECT D.SNUM
FROM DELIVERS D, VENDORS V
WHERE V.HQLOC = 'LosAngeles'

UNION

SELECT D.SNUM
FROM DELIVERS D, PARKS P
```

WHERE P.LOCATION = 'LosAngeles';

Table:

SNUM
S10
S20
S30
S40
S50
S60

Cardinality: 6