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Database Management

Section 902

Dr.Schwartz

Lab 2

Query 11 Vendors:

Snack numbers for snacks where the vendor and park are co-located.

SQL Statement:

```
SELECT DISTINCT D.SNUM
FROM VENDORS V, PARKS P, DELIVERS D
WHERE V.VNUM = D.VNUM
AND P.PNUM = D.PNUM
AND P.LOCATION = V.HQLOC;
```

Table:

SNUM
S30
S10
S40
S60
S20
S50

Cardinality: 6

Query 12 Vendors:

Park numbers for parks that receive deliveries from at least one vendor not in the same city.

SQL Statement:

```
SELECT DISTINCT D.PNUM
FROM PARKS P, VENDORS V, DELIVERS D
WHERE P.PNUM = D.PNUM
AND V.VNUM = D.VNUM
AND V.HQLOC <> P.LOCATION;
```

Table:

PNUM
P100
P600
P400
P200
P700
P300
P500

Cardinality: 7

Query 13 Vendors:

Pairs of snack numbers where a vendor delivers them both.

SQL Statement:

```
SELECT DISTINCT SNACK_1.SNUM AS SNACK1, SNACK_2.SNUM AS SNACK2
FROM DELIVERS SNACK_1, DELIVERS SNACK_2
WHERE SNACK_1.VNUM = SNACK_2.VNUM
AND SNACK_1.SNUM <> SNACK_2.SNUM;
```

Table:

SNACK1	SNACK2
S50	S30
S30	S50
S20	S10
S60	S10
S30	S20
S50	S20
S10	S30
S20	S40
S10	S50
S40	S50
S30	S40
S60	S40
S30	S60
S40	S30
S40	S10
S50	S10
S10	S20
S40	S20
S20	S30
S10	S40
S50	S40
S20	S50
S60	S50
S10	S60
S40	S60
S50	S60
S30	S10
S60	S20
S60	S30
S20	S60

Cardinality: 30

Query 14 Vendors:

Total number of parks that receive deliveries from vendor V10.

SQL Statement:

```
SELECT COUNT(D.PNUM) AS PARKS
FROM DELIVERS D
WHERE D.VNUM = 'V50';
```

Table:

PARKS
10

Cardinality: 1

Query 15 Vendors:

Total amount of snack S10 delivered by V10.

SQL Statement:

```
SELECT SUM(D.AMOUNT) AS TOTALAMOUNT
FROM DELIVERS D
WHERE D.SNUM = 'S10'
AND D.VNUM = 'V10';
```

Table:

TOTALAMOUNT
900

Cardinality: 1

Query 16 Vendors:

Snack and Park number, as well as amount for each snack being delivered to a park.

SQL Statement:

```
SELECT DISTINCT D.SNUM, D.PNUM, D.AMOUNT  
FROM DELIVERS D;
```

Table:

SNUM	PNUM	AMOUNT
S10	P100	200
S30	P200	200
S30	P600	400
S50	P200	100
S30	P100	200
S20	P400	100
S30	P400	200
S50	P700	100
S10	P400	700
S30	P400	500
S40	P200	500
S20	P200	200
S50	P400	400
S50	P500	500
S30	P300	200
S30	P500	600
S60	P300	300
S10	P400	100
S40	P400	800
S60	P200	200
S60	P400	500
S30	P100	400
S30	P700	800
S60	P700	300

Cardinality: 24

Query 17 Vendors:

Snack numbers of snacks delivered by park with an average quantity greater than 320.

SQL Statement:

```
SELECT DISTINCT D.SNUM
FROM DELIVERS D, SNACKS S
WHERE S.SNUM = D.SNUM
AND (S.QTY * D.AMOUNT) > 320;
```

Table:

SNUM
S10
S20
S30
S40
S50
S60

Cardinality: 6

Query 18 Vendors:

Park names for parks delivered by Vendor V10.

SQL Statement:

```
SELECT P.PARKNAME
FROM PARKS P, DELIVERS D
WHERE P.PNUM = D.PNUM
AND D.VNUM = 'V10';
```

Table:

PARKNAME
OraclePark
PostgreSQLPark

Cardinality: 2

Query 19 Vendors:

Prices of snacks delivered by Vendor V10.

SQL Statement:

```
SELECT DISTINCT S.PRICE
FROM SNACKS S, DELIVERS D
WHERE S.SNUM = D.SNUM
AND D.VNUM = 'V10';
```

Table:

PRICE
14.99

Cardinality: 1

Query 20 Vendors:

Snack numbers for snacks delivered to parks in Los Angeles.

SQL Statement:

```
SELECT DISTINCT D.SNUM
FROM PARKS P, DELIVERS D
WHERE P.PNUM = D.PNUM
AND P.LOCATION = 'LosAngeles';
```

Table:

SNUM
S30
S60
S50

Cardinality: 3