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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*