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Database Management

Section 902

Dr.Schwartz

**Lab 1**

**Query 0 Vendors:**

Full detail of vendors table sorted by primary key.

*SQL Statement:*

SELECT V.\*

FROM VENDORS V

ORDER BY V.VNUM;

*Table:*

|  |  |  |  |
| --- | --- | --- | --- |
| **VNUM** | **VENDORNAME** | **REGION** | **HQLOC** |
| V10 | SnackMeister | 10 | LosAngeles |
| V20 | CostMore | 20 | Seattle |
| V30 | ScamsClub | 30 | Seattle |
| V40 | Scamazon | 50 | LosAngeles |
| V50 | HomerClub | 30 | Miami |

*Cardinality: 5*

**Query 0 Snacks:**

Full detail of snacks table sorted by primary key.

*SQL Statement:*

SELECT S.\*

FROM SNACKS S

ORDER BY S.SNUM;

*Table:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SNUM** | **SNACKNAME** | **PRICE** | **QTY** | **SOURCECITY** |
| S10 | Pickles | 14.99 | 120 | LosAngeles |
| S20 | Hamburgers | 24.99 | 60 | Seattle |
| S30 | HotDogs | 19.99 | 80 | NewOrleans |
| S40 | Chips | 14.99 | 150 | LosAngeles |
| S50 | Nachos | 19.99 | 100 | Seattle |
| S60 | Pretzels | 14.99 | 40 | LosAngeles |

*Cardinality:* 6

**Query 0 Parks:**

Full detail of parks table sorted by primary key.

*SQL Statement:*

SELECT P.\*

FROM PARKS P

ORDER BY P.PNUM;

*Table:*

|  |  |  |  |
| --- | --- | --- | --- |
| **PNUM** | **PARKNAME** | **CAPACITY** | **LOCATION** |
| P100 | OraclePark | 5500 | Seattle |
| P200 | MySQLPark | 20400 | NewOrleans |
| P300 | MongoField | 5500 | Miami |
| P400 | PostgreSQLPark | 13600 | Miami |
| P500 | DB2Field | 8300 | LosAngeles |
| P600 | AccessStadium | 6300 | Poughkeepsie |
| P700 | TeradataField | 11100 | LosAngeles |

*Cardinality: 7*

**Query 0 Delivers:**

Full detail of delivers table sorted by primary keys.

*SQL Statement:*

SELECT D.\*

FROM DELIVERS D

ORDER BY D.VNUM , D.SNUM , D.PNUM;

*Table:*

|  |  |  |  |
| --- | --- | --- | --- |
| **VNUM** | **SNUM** | **PNUM** | **AMOUNT** |
| V10 | S10 | P100 | 200 |
| V10 | S10 | P400 | 700 |
| V20 | S30 | P100 | 400 |
| V20 | S30 | P200 | 200 |
| V20 | S30 | P300 | 200 |
| V20 | S30 | P400 | 500 |
| V20 | S30 | P500 | 600 |
| V20 | S30 | P600 | 400 |
| V20 | S30 | P700 | 800 |
| V20 | S50 | P200 | 100 |
| V30 | S30 | P100 | 200 |
| V30 | S40 | P200 | 500 |
| V40 | S60 | P300 | 300 |
| V40 | S60 | P700 | 300 |
| V50 | S10 | P400 | 100 |
| V50 | S20 | P200 | 200 |
| V50 | S20 | P400 | 100 |
| V50 | S30 | P400 | 200 |
| V50 | S40 | P400 | 800 |
| V50 | S50 | P400 | 400 |
| V50 | S50 | P500 | 500 |
| V50 | S50 | P700 | 100 |
| V50 | S60 | P200 | 200 |
| V50 | S60 | P400 | 500 |

*Cardinality:* *24*

**Query 1:**

Full detail of parks located in LosAngeles

*SQL Statement:*

SELECT P.\*

FROM PARKS P

WHERE LOCATION = 'LosAngeles';

*Table:*

|  |  |  |  |
| --- | --- | --- | --- |
| **PNUM** | **PARKNAME** | **CAPACITY** | **LOCATION** |
| P500 | DB2Field | 8300 | LosAngeles |
| P700 | TeradataField | 11100 | LosAngeles |

*Cardinality: 2*

**Query 2:**

Vendor numbers of vendors that deliver to Park P100

*SQL Statement:*

SELECT V.VNUM

FROM VENDORS V, PARKS P, DELIVERS D

WHERE V.VNUM = D.VNUM

AND P.PNUM = D.PNUM

AND P.PNUM = 'P100';

*Table:*

|  |
| --- |
| **VNUM** |
| V10 |
| V20 |
| V30 |

*Cardinality: 3*

**Query 3:**

Full details of every delivery with an amount in the range 300-750.

*SQL Statement:*

SELECT D.\*

FROM DELIVERS D

WHERE D.AMOUNT <= 750

AND D.AMOUNT >= 300;

*Table:*

|  |  |  |  |
| --- | --- | --- | --- |
| **VNUM** | **SNUM** | **PNUM** | **AMOUNT** |
| V10 | S10 | P400 | 700 |
| V20 | S30 | P100 | 400 |
| V20 | S30 | P400 | 500 |
| V20 | S30 | P500 | 600 |
| V20 | S30 | P600 | 400 |
| V30 | S40 | P200 | 500 |
| V40 | S60 | P300 | 300 |
| V40 | S60 | P700 | 300 |
| V50 | S50 | P400 | 400 |
| V50 | S50 | P500 | 500 |
| V50 | S60 | P400 | 500 |

*Cardinality: 11*

**Query 4:**

All price and source city combinations from snacks table.

*SQL Statement:*

SELECT S.PRICE, S.SOURCECITY

FROM SNACKS S;

*Table:*

|  |  |
| --- | --- |
| **PRICE** | **SOURCECITY** |
| 14.99 | LosAngeles |
| 24.99 | Seattle |
| 19.99 | NewOrleans |
| 14.99 | LosAngeles |
| 19.99 | Seattle |
| 14.99 | LosAngeles |

*Cardinality: 6*

**Query 5:**

Vendor, snacks and parks number triples that are all co-located.

*SQL Statement:*

SELECT V.VNUM, S.SNUM, P.PNUM

FROM VENDORS V, SNACKS S, PARKS P

WHERE V.HQLOC = S.SOURCECITY

AND S.SOURCECITY = P.LOCATION;

*Table:*

|  |  |  |
| --- | --- | --- |
| **VNUM** | **SNUM** | **PNUM** |
| V10 | S10 | P500 |
| V10 | S40 | P500 |
| V10 | S60 | P500 |
| V10 | S10 | P700 |
| V10 | S40 | P700 |
| V10 | S60 | P700 |
| V20 | S20 | P100 |
| V20 | S50 | P100 |
| V30 | S20 | P100 |
| V30 | S50 | P100 |
| V40 | S10 | P500 |
| V40 | S40 | P500 |
| V40 | S60 | P500 |
| V40 | S10 | P700 |
| V40 | S40 | P700 |
| V40 | S60 | P700 |

*Cardinality: 16*

**Query 6:**

Vendor, snacks and parks number triples that not all co-located.

*SQL Statement:*

SELECT V.VNUM, S.SNUM, P.PNUM

FROM VENDORS V, SNACKS S, PARKS P

WHERE V.HQLOC <> P.LOCATION

AND V.HQLOC <> S.SOURCECITY;

*Table:*

Over 30

*Cardinality: 50*

**Query 7:**

Vendor, snacks and parks number triples that no two are all co-located.

*SQL Statement:*

SELECT V.VNUM, S.SNUM, P.PNUM

FROM VENDORS V, SNACKS S, PARKS P

WHERE V.HQLOC <> P.LOCATION

AND V.HQLOC <> S.SOURCECITY

AND P.LOCATION <> S.SOURCECITY;

*Table:*

Over 30

*Cardinality: 79*

**Query 8:**

Snack numbers for snacks that are delivered by vendor who is in LosAngeles.

*SQL Statement:*

SELECT DISTINCT S.SNUM

FROM SNACKS S, VENDORS V, DELIVERS D

WHERE S.SNUM = D.SNUM

AND V.VNUM = D.VNUM

AND V.HQLOC = 'LosAngeles';

*Table:*

|  |
| --- |
| **SNUM** |
| S10 |
| S60 |

*Cardinality: 2*

**Query 9:**

Snack numbers for snacks that are delivered to a park in LosAngeles by a vendor who is in LosAngeles.

*SQL Statement:*

SELECT DISTINCT S.SNUM

FROM SNACKS S, VENDORS V, PARKS P, DELIVERS D

WHERE S.SNUM = D.SNUM

AND V.VNUM = D.VNUM

AND P.PNUM = D.PNUM

AND V.HQLOC = 'LosAngeles'

AND P.LOCATION = 'LosAngeles';

*Table:*

|  |
| --- |
| **SNUM** |
| S60 |

*Cardinality: 1*

**Query 10:**

All pairs of city names that a vendor from the first city delivers something to a park located in the second city.

*SQL Statement:*

SELECT V.HQLOC, P.LOCATION

FROM VENDORS V, PARKS P, DELIVERS D

WHERE P.PNUM = D.PNUM

AND V.VNUM = D.VNUM;

*Table:*

|  |  |
| --- | --- |
| **HQLOC** | **LOCATION** |
| LosAngeles | Seattle |
| Seattle | Seattle |
| Seattle | Seattle |
| Seattle | NewOrleans |
| Seattle | NewOrleans |
| Seattle | NewOrleans |
| Miami | NewOrleans |
| Miami | NewOrleans |
| Seattle | Miami |
| LosAngeles | Miami |
| LosAngeles | Miami |
| Seattle | Miami |
| Miami | Miami |
| Miami | Miami |
| Miami | Miami |
| Miami | Miami |
| Miami | Miami |
| Miami | Miami |
| Seattle | LosAngeles |
| Miami | LosAngeles |
| Seattle | Poughkeepsie |
| Seattle | LosAngeles |
| LosAngeles | LosAngeles |
| Miami | LosAngeles |

*Cardinality: 24*