Michael Durso

Retro Video Games Lab 2

Database Management 308N-113

Query11

Get Game numbers for games played on any console by a user from the same city as that console’s Manufacturer Location.

SELECT DISTINCT P.GNum

FROM Users AS U, Consoles AS C, Plays AS P

WHERE U.UNum = P.UNum

AND C.CNum = P.CNum

AND U.Hometown = C.ManuLoc;

| **Query11** |
| --- |
| **GNum** |
| G100 |
| G200 |
| G300 |
| G400 |
| G500 |
| G600 |

Cardinality: 6

Query12

Name the consoles that have been played by at least one user who is not from the same city as that console’s Manufacturer Location.

SELECT DISTINCT C.ConsoleName

FROM Users AS U, Consoles AS C, Plays AS P

WHERE U.UNum = P.UNum

AND C.CNum = P.CNum

AND U.Hometown <> C.ManuLoc;

| **Query12** |
| --- |
| **ConsoleName** |
| Atari |
| Coleco |
| Gameboy |
| Intellivision |
| Nintendo |
| PlayStation |
| SegaGenesis |

Cardinality: 7

Query13

Get all pairs of Game numbers such that some user has played both the indicated games.

SELECT DISTINCT P1.GNum AS GameName1, P2.GNum AS GameName2

FROM Plays AS P1, Plays AS P2

WHERE P1.UNum = P2.UNum

AND P1.GNum <= P2.GNum;

|  |  |
| --- | --- |
| **Query13** | |
| **GameName1** | **GameName2** |
| G100 | G100 |
| G100 | G200 |
| G100 | G300 |
| G100 | G400 |
| G100 | G500 |
| G100 | G600 |
| G200 | G200 |
| G200 | G300 |
| G200 | G400 |
| G200 | G500 |
| G200 | G600 |
| G300 | G300 |
| G300 | G400 |
| G300 | G500 |
| G300 | G600 |
| G400 | G400 |
| G400 | G500 |
| G400 | G600 |
| G500 | G500 |
| G500 | G600 |
| G600 | G600 |

Cardinality: 21

Query14

Get the total number of consoles that have been played by user U50.

SELECT COUNT(P.CNum) AS TotalNumberOfConsoles

FROM Plays AS P

WHERE P.UNum = 'U50';

| **Query14** |
| --- |
| **TotalNumberOfConsoles** |
| 10 |

Cardinality: 1

Query15

Get the total TimesPlayed for user U10 of game G100.

SELECT SUM(TimesPlayed) AS TotalTimesPlayed

FROM Plays AS P

WHERE P.UNum = 'U10'

AND P.GNum = 'G100';

| **Query15** |
| --- |
| **TotalTimesPlayed** |
| 94 |

Cardinality: 1

Query16

For each game played on a console, get the game number, the console number, and the total TimesPlayed (for that game played on that console).

SELECT P.GNum, P.CNum, SUM(TimesPlayed) AS TotalTimesPlayed

FROM Plays AS P

GROUP BY P.GNum, P.CNum;

| **Query16** | | |
| --- | --- | --- |
| **GNum** | **CNum** | **TotalTimesPlayed** |
| G100 | C1 | 22 |
| G100 | C4 | 87 |
| G200 | C2 | 27 |
| G200 | C4 | 14 |
| G300 | C1 | 65 |
| G300 | C2 | 25 |
| G300 | C3 | 27 |
| G300 | C4 | 57 |
| G300 | C5 | 69 |
| G300 | C6 | 44 |
| G300 | C7 | 86 |
| G400 | C2 | 52 |
| G400 | C4 | 8 |
| G500 | C2 | 14 |
| G500 | C4 | 44 |
| G500 | C5 | 56 |
| G500 | C7 | 1 |
| G600 | C2 | 24 |
| G600 | C3 | 33 |
| G600 | C4 | 55 |
| G600 | C7 | 38 |

Cardinality: 21

Query17

Get game numbers of games played with an average TimesPlayed of more than 30.

SELECT P.GNum

FROM Plays AS P

GROUP BY P.GNum

HAVING AVG(P.TimesPlayed) > 30;

| **Query17** |
| --- |
| **GNum** |
| G100 |
| G300 |
| G600 |

Cardinality: 3

Query18

Name the consoles that have been played by Sheldon.

SELECT C.CNum

FROM Users AS U, Plays AS P, Consoles AS C

WHERE U.UNum = P.UNum

AND C.CNum = P.CNum

AND U.UserName = 'Sheldon';

| **Query18** |
| --- |
| **CNum** |
| C1 |
| C4 |

Cardinality: 2

Query19

Get the total of the ListPrices of games played by Sheldon.

SELECT SUM(ListPrice) AS TotalListPrices

FROM Users AS U, Plays AS P, Games AS G

WHERE U.UNum = P.UNum

AND P.GNum = G.GNum

AND U.UserName = 'Sheldon';

| **Query19** |
| --- |
| **TotalListPrices** |
| 19.98 |

Cardinality: 1

Query20

Name the games played on any console manufactured in Tokyo.

SELECT DISTINCT G.GameName

FROM Games AS G, Consoles AS C, Plays AS P

WHERE G.GNum = P.GNum

AND P.CNum = C.CNum

AND C.ManuLoc = 'Tokyo';

| **Query20** |
| --- |
| **GameName** |
| MarioBros |
| Pitfall |
| Zelda |

Cardinality: 3