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Retro Video Games Lab 3a

Database Management 308N-113

Query21

Name the consoles that have at least one game that was played by Sheldon.

SELECT C.ConsoleName

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

WHERE U.UNum = P.UNum

AND C.CNum = P.CNum

AND U.UserName = 'Sheldon';

Query21 ConsoleName Atari PlayStation

Cardinality: 2

Query22

Get user numbers for users who have a Mastery lower than that of Sheldon.

SELECT U2.UNum

FROM Users AS U1, Users AS U2

WHERE U1.UserName = 'Sheldon'

AND U2.Mastery < U1.Mastery;



Cardinality: 1

Query23

Get console numbers for consoles whose Manufacturer Location is first in the alphabetic list of such cities.

SELECT C.CNum

FROM Consoles AS C

WHERE C.ManuLoc IN

(SELECT MIN(C.ManuLoc)

FROM Consoles AS C);



Cardinality: 1

Query24

Get console numbers for consoles that have plays of game G100 in an average TimesPlayed less than the greatest TimesPlayed for any game played on console C1.

SELECT P.CNum

FROM Plays AS P

WHERE P.GNum = 'G100'

GROUP BY P.CNum

HAVING AVG(P.TimesPlayed) <

(SELECT Max(Plays.TimesPlayed)

FROM Plays

WHERE Plays.CNum = 'C1');



Cardinality: 1

Query25

Get user numbers for users that played game G100 on some console in a TimesPlayed greater than the average TimesPlayed of game G100 for that console.

SELECT DISTINCT P.UNum

FROM Plays AS P

GROUP BY P.UNum, P.GNum

HAVING P.GNum = 'G100'

AND SUM(TimesPlayed)>

(SELECT AVG(TimesPlayed)

FROM Plays

GROUP BY Plays.GNum

HAVING Plays.GNum = 'G100')

Query25 UNum U10

Cardinality: 1

Query26

Name the cities with which at least one user, game, or console is associated.

SELECT U.Hometown AS Cities

FROM Users AS U

UNION

SELECT G.CityCreated

FROM Games AS G

UNION SELECT C.ManuLoc

FROM Consoles AS C

Query26
Cities
NewYork
Peking
Poughkeepsie
Seattle
Tokyo
C 1: 1: 6

Cardinality: 5

Query27

Get game numbers for games that were played either by a user from Tokyo or on a console manufactured in Tokyo.

SELECT DISTINCT P.GNum

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

WHERE U.UNum = P.UNum

AND C.CNum = P.CNum

AND (U.hometown = 'Tokyo'

OR C.ManuLoc = 'Tokyo');

Query27
GNum
G100
G300
G500
G600

Cardinality: 4