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
<b>TotalNumberOfConsoles</b>
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
Total'	<b>FimesPlayed</b>
	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				
<b>GNum</b>	CNum	<b>TotalTimesPlayed</b>		
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