Ryan Carmello & Mike Durso Database Management

CMPT 308 – Section 113

Lab 4

**Query1**

List the actors on shows sponsored by \_\_\_\_\_. (Give the actor name and TVshow name.) (Use Levis in your printed results.)

SELECT ac.actor\_name, tv.show\_name

FROM zActor ac, zTVShow tv, zPlay pl, zSponsorBy sb, zSponsor s

WHERE ac.actor\_num = pl.actor\_num

AND pl.show\_num = tv.show\_num

AND tv.show\_num = sb.show\_num

AND sb.sponsor\_num = s.sponsor\_num

AND s.sponsor\_name = '&sponsor\_name';

|  |  |
| --- | --- |
| **Actor\_Name** | **Show\_Name** |
| Liz Torres | Phyllis |
| Edward Asner | Lou Grant |
| R Walden | Lou Grant |
| Cloris Leachman | Phyllis |
| Alan Alda | M\*A\*S\*H |
| Loretta Swit | M\*A\*S\*H |
| Larry Linville | M\*A\*S\*H |
| George Morgan | M\*A\*S\*H |
| William Christopher | M\*A\*S\*H |
| L Gerritsen | Phyllis |
| James Arness | Gunsmoke |
| Amanda Blake | Gunsmoke |
| Ken Curtis | Gunsmoke |
| Milburn Stone | Gunsmoke |

**Cardinality:** 14

**Query2**

Name characters on TV shows distributed by a company whose headquarters are in Los Angeles. (Give the character’s name, the TVShow name, the distributor’s name, and the distributor’s location.)

SELECT ch.char\_name, tv.show\_name, di.distr\_name, di.distr\_loc

FROM zTVShow tv, zDistributor di, zCharacter ch, zPlay pl

WHERE ch.char\_num = pl.char\_num

AND pl.show\_num = tv.show\_num

AND tv.distrID = di.distrID

AND di.distr\_loc = 'Los Angeles';

|  |  |  |  |
| --- | --- | --- | --- |
| **Char\_Name** | **Show\_Name** | **Distr\_Name** | **Distr\_Loc** |
| Lou Grant | Mary T Moore | MTM | Los Angeles |
| Lou Grant | Lou Grant | MTM | Los Angeles |
| Joe Rossi | Lou Grant | MTM | Los Angeles |
| Mary Richards | Mary T Moore | MTM | Los Angeles |
| Ted Baxter | Mary T Moore | MTM | Los Angeles |
| Phyllis Lindstrom | Phyllis | MTM | Los Angeles |
| Phyllis Lindstrom | Mary T Moore | MTM | Los Angeles |
| Rhoda Morgenstern | Rhoda | MTM | Los Angeles |
| Rhoda Morgenstern | Mary T Moore | MTM | Los Angeles |
| Hawkeye | M\*A\*S\*H | 20th C Fox | Los Angeles |
| Margaret Houlihan | M\*A\*S\*H | 20th C Fox | Los Angeles |
| Frank Burns | M\*A\*S\*H | 20th C Fox | Los Angeles |
| Fr Mulcahy | M\*A\*S\*H | 20th C Fox | Los Angeles |
| Fr Mulcahy | M\*A\*S\*H | 20th C Fox | Los Angeles |
| Al Bundy | Married with Children | 20th C Fox | Los Angeles |
| Peggy Bundy | Married with Children | 20th C Fox | Los Angeles |
| Kelly Bundy | Married with Children | 20th C Fox | Los Angeles |
| Bess Lindstrom | Phyllis | MTM | Los Angeles |
| J Erskine | Phyllis | MTM | Los Angeles |
| Brenda Morgenstern | Rhoda | MTM | Los Angeles |
| Marybeth Lacey | Cagney&Lacey | MTM | Los Angeles |
| Chris Cagney | Cagney&Lacey | MTM | Los Angeles |
| Chris Cagney | Cagney&Lacey | MTM | Los Angeles |
| Fred Baxter | Mary T Moore | MTM | Los Angeles |
| Sue Bundy | Married with Children | 20th C Fox | Los Angeles |

**Cardinality:** 25

**Query3**

Name agents who represent an actor on a show on one of the Big Three Networks (ABC, CBS, or NBC). (Give the agent's name and the actor’s name.)

SELECT DISTINCT ag.agent\_name, ac.actor\_name

FROM zAgent ag, zActor ac, zPlay pl, zTVShow tv

WHERE ag.agent\_num = ac.agent\_num

AND ac.actor\_num = pl.actor\_num

AND pl.show\_num = tv.show\_num

AND (tv.network\_id = 'ABC'

OR tv.network\_id = 'CBS'

OR tv.network\_id = 'NBC');

|  |  |
| --- | --- |
| **Agent\_Name** | **Actor\_Name** |
| T Bradshaw | JJ Walker |
| Gary Larson | Adrienne Barbeau |
| H Clinton | James Arness |
| H Clinton | Sharon Gless |
| H Clinton | R Walden |
| Gary Larson | Mel Stewart |
| Gary Larson | Tyne Daly |
| H Clinton | John Amos |
| H Clinton | Valerie Harper |
| T Singletary | Alan Alda |
| Bill Gates | Milburn Stone |
| T Bradshaw | Isabel Sanford |
| T Singletary | Carroll O\_Conner |
| Gary Larson | Loretta Swit |
| Bill Gates | Ted Knight |
| Gary Larson | Larry Linville |
| Bill Gates | Liz Torres |
| Chris Berman | William Christopher |
| T Bradshaw | Ken Curtis |
| T Bradshaw | Amanda Blake |
| Gary Larson | Cloris Leachman |
| T Singletary | Mary Tyler Moore |
| H Clinton | L Gerritsen |
| Bill Gates | Julie Kavner |
| Gary Larson | Jean Stapleton |
| T Singletary | Bea Arthur |
| Chris Berman | Sherman Hemsley |
| Gary Larson | Ester Rolle |
| Chris Berman | Edward Asner |
| T Bradshaw | George Morgan |

**Cardinality:** 30

**Query4**

Sometimes, an actor plays more than one character on a TV show. List these actors and the characters they played. (Give the character’s name and the actor’s name. You’ll have a record for each actor/character pair.)

SELECT ac.actor\_name, ch.char\_name, ch2.char\_name As character2

FROM zActor ac, zPlay pl, zPlay pl2, zCharacter ch, zcharacter ch2

WHERE ac.actor\_num = pl.actor\_num

AND ac.actor\_num = pl2.actor\_num

AND ch.char\_num = pl.char\_num

AND ch2.char\_num = pl2.char\_num

AND pl.show\_num = pl2.show\_num

AND pl.char\_num < pl2.char\_num;

|  |  |  |
| --- | --- | --- |
| **Actor\_Name** | **Char\_Name** | **Character2** |
| Ted Knight | Ted Baxter | Fred Baxter |
| Katay Sagal | Peggy Bundy | Sue Bundy |
| Mike Judge | Beavis | Butthead |

**Cardinality:** 3

**Query5**

TVShows pay actors. They also pay producers. Give a sorted list of TVShows, based on their total aggregate payrolls. (Give the TVShow name and the total payroll, sorted by payroll.)

SELECT tv.show\_name, SUM(pl.actor\_salary + pb.prod\_salary) AS Payroll

FROM zTVShow tv, zPlay pl, zProdBy pb

WHERE tv.show\_num = pl.show\_num

AND pb.show\_num = pl.show\_num

GROUP BY tv.show\_name

ORDER BY Payroll;

|  |  |
| --- | --- |
| **Show\_Name** | **Payroll** |
| Beavis & BH | 60000 |
| Rhoda | 90000 |
| Jeffersons | 100000 |
| Lou Grant | 105000 |
| Gunsmoke | 113150 |
| Phyllis | 135000 |
| Good Times | 150000 |
| Cagney&Lacey | 155000 |
| Married with Children | 182000 |
| Maude | 185000 |
| M\*A\*S\*H | 255000 |
| All in the Family | 295000 |
| Mary T Moore | 326000 |

**Cardinality:** 13

**Query6**

A spin-off is a show that was created from another “parent" show. Identify the spinoffs that appeared on the same network as their parent show. (Give the spinoff, its network, its parent show and the parent show’s network.)

SELECT tv.show\_name AS original, tv2.show\_name AS Spinoff

FROM zSpinoff sp, zTVShow tv, zTVShow tv2

WHERE sp.parent\_num = tv.show\_num

AND sp.spinoff\_num = tv2.show\_num

AND tv.network\_id = tv2.network\_id;

|  |  |
| --- | --- |
| **Original** | **Spinoff** |
| All in the Family | Jeffersons |
| Mary T Moore | Rhoda |

**Cardinality:** 2

**Query7**

Name actors who have either won no awards or have appeared on a show that won no awards. (Give the actor’s name and his/her TVQ.)

SELECT ac.actor\_name, ac.tvq

FROM zActor ac

WHERE ac.actor\_num NOT IN

(SELECT ac\_aw.actor\_num

FROM zActor\_Award ac\_aw)

UNION

SELECT ac.actor\_name, ac.tvq

FROM zActor ac

WHERE ac.actor\_num IN

(SELECT pl.actor\_num

FROM zPlay pl

WHERE pl.show\_num IN

(SELECT tv.show\_num

FROM zTVShow tv

WHERE tv.show\_num NOT IN

(SELECT sh\_aw.show\_num

FROM zShowAward sh\_aw)));

|  |  |
| --- | --- |
| **Actor\_Name** | **TVQ** |
| Adrienne Barbeau | 35 |
| Amanda Blake | 50 |
| Bea Arthur | 70 |
| Christina Applegate | 40 |
| Cloris Leachman | 35 |
| Ed O\_Neill | 15 |
| Ester Rolle | 50 |
| George Morgan | 45 |
| Isabel Sanford | 50 |
| JJ Walker | 40 |
| James Arness | 60 |
| John Amos | 20 |
| Julie Kavner | 40 |
| Katay Sagal | 30 |
| Ken Curtis | 40 |
| L Gerritsen | 45 |
| Larry Linville | 25 |
| Liz Torres | 10 |
| Mel Stewart | 20 |
| Mike Judge | 20 |
| Milburn Stone | 35 |
| R Walden | 20 |
| Sherman Hemsley | 60 |
| Ted Knight | 35 |
| Valerie Harper | 30 |
| William Christopher | 40 |

**Cardinality:** 26

**Query8**

List awards that, according to the current data in the database, were not awarded. (Give the award name, award type, and award year.)

SELECT aw.award\_name, aw.award\_type, aw.award\_year

FROM zAward aw

WHERE aw.awardID NOT IN

(SELECT ac\_aw.awardID

FROM zActor\_Award ac\_aw

UNION

SELECT pr\_aw.awardID

FROM zProdAward pr\_aw

UNION

SELECT sh\_aw.awardID

FROM zShowAward sh\_aw);

**Cardinality:** 54

**Query9**

Name award-winning shows that have featured award-winning actor(s) and were produced by award-winning producer(s). (Give the show names and their network.)

SELECT DISTINCT tv.show\_name, tv.network\_id

FROM zTVShow tv, zPlay pl, zProdBy pb

WHERE tv.show\_num IN

(SELECT sh\_aw.show\_num

FROM zShowAward sh\_aw)

AND pl.actor\_num IN

(SELECT ac\_aw.actor\_num

FROM zActor\_Award ac\_aw)

AND tv.show\_num = pb.show\_num

AND pb.prod\_num IN

(SELECT pr\_aw.prod\_num

FROM zProdAward pr\_aw);

|  |  |
| --- | --- |
| **Show\_Name** | **Network\_ID** |
| Married with Children | FOX |
| M\*A\*S\*H | CBS |
| Mary T Moore | CBS |
| Lou Grant | NBC |
| All in the Family | CBS |

**Cardinality:** 5

**Query10 (Table and cardinality before SQL to save paper)**

Name shows that are somehow associated with parent company \_\_\_\_. This means that if \_\_\_\_ is a parent company for anything related to the show (sponsor, network, etc.), then you should list that show. (Give the show name and network.) (Use RCA in your printed results.)

|  |  |
| --- | --- |
| **Show\_Name** | **Network\_ID** |
| All in the Family | CBS |
| Beavis & BH | MTV |
| Good Times | NBC |
| Gunsmoke | CBS |
| Hee Haw | ABC |
| Jeffersons | CBS |
| Married with Children | FOX |
| Maude | ABC |

**Cardinality:** 8

SELECT tv.show\_name, tv.network\_id

FROM zTVShow tv

WHERE tv.show\_num IN

(SELECT sb.show\_num

FROM zSponsorBy sb

WHERE sb.sponsor\_num IN

(SELECT s.sponsor\_num

FROM zSponsor s

WHERE s.parent\_num IN

(SELECT pc.parent\_num

FROM zParentComp pc

WHERE pc.parent\_name = &parent\_name)))

UNION

SELECT tv.show\_name, tv.network\_id

FROM zTVShow tv

WHERE tv.distrID IN

(SELECT di.distrID

FROM zDistributor di

WHERE di.parent\_num IN

(SELECT pc.parent\_num

FROM zParentComp pc

WHERE pc.parent\_name = &parent\_name))

UNION

SELECT tv.show\_name, tv.network\_id

FROM zTVShow tv

WHERE tv.network\_id IN

(SELECT net.network\_id

FROM zNetwork net

WHERE net.parent\_num IN

(SELECT pc.parent\_num

FROM zParentComp pc

WHERE pc.parent\_name = &parent\_name));