

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, zProdBBy 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
Gunsmove	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));

```