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1. *** List the characters on shows sponsored by _____. (Give the character name and TVshow name.) (Use Levis in your printed results.)

```
CREATE OR REPLACE VIEW TVQUERY1 AS
SELECT CH.CHAR_NAME, SH.SHOW_NAME
FROM ZCHARACTER CH, ZPLAY PL, ZTVSHOW SH
WHERE CH.CHAR_NUM = PL.CHAR_NUM
AND PL.SHOW_NUM = SH.SHOW_NUM
AND PL.SHOW_NUM IN
    (SELECT SPB.SHOW_NUM
     FROM ZSPONSORBY SPB
     WHERE SPB.SPONSOR_NUM IN
         (SELECT SP.SPONSOR_NUM
          FROM ZSPONSOR SP
          WHERE SP.SPONSOR_NAME = '&Sponsor'
         )
    );
```

| CHAR_NAME | SHOW_NAME |
|-------------------|-----------|
| Lou Grant | Lou Grant |
| Joe Rossi | Lou Grant |
| Phyllis Lindstrom | Phyllis |
| Hawkeye | M*A*S*H |
| Margaret Houlihan | M*A*S*H |
| Frank Burns | M*A*S*H |
| Fr Mulcahy | M*A*S*H |
| Fr Mulcahy | M*A*S*H |
| Bess Lindstrom | Phyllis |
| J Erskine | Phyllis |
| Marshall Dillon | Gunsmoke |
| Miss Kitty | Gunsmoke |
| Festus | Gunsmoke |
| Doc | Gunsmoke |
| Roy Clark | Hee Haw |

Cardinality 15

- Name producers of TV shows distributed by a company whose headquarters are in Los Angeles. (Give the producer's name, the TVShow name, the distributor's name, and the distributor's location.)

```
CREATE OR REPLACE VIEW TVQUERY2 AS
SELECT DISTINCT Pr.prod_name, SH.show_name, dist.distr_name, dist.distr_loc
FROM zProducer Pr , zDistributor dist, zTVShow SH
WHERE SH.distrID = dist.distrID
AND dist.distr_loc ='Los Angeles';
```

| PROD_NAME | SHOW_NAME | DISTR_NAME | DISTR_LOC |
|--------------|-----------------------|------------|-------------|
| Susan Piper | Lou Grant | MTM | Los Angeles |
| A Spaulding | M*A*S*H | 20th C Fox | Los Angeles |
| V Chamberlan | M*A*S*H | 20th C Fox | Los Angeles |
| Susan Piper | Married with Children | 20th C Fox | Los Angeles |
| Dinah Marler | Rhoda | MTM | Los Angeles |
| Mike Jordan | Rhoda | MTM | Los Angeles |
| A Spaulding | 60 Minutes | MTM | Los Angeles |
| R S Lewis | Cagney&Lacey | MTM | Los Angeles |
| V Chamberlan | Cagney&Lacey | MTM | Los Angeles |
| V Chamberlan | Lou Grant | MTM | Los Angeles |
| V Chamberlan | Mary T Moore | MTM | Los Angeles |
| R S Lewis | M*A*S*H | 20th C Fox | Los Angeles |
| Mike Jordan | M*A*S*H | 20th C Fox | Los Angeles |
| A Spaulding | Phyllis | MTM | Los Angeles |
| Susan Piper | Rhoda | MTM | Los Angeles |
| A Spaulding | Cagney&Lacey | MTM | Los Angeles |
| Mike Jordan | Cagney&Lacey | MTM | Los Angeles |
| R S Lewis | Phyllis | MTM | Los Angeles |
| R S Lewis | 60 Minutes | MTM | Los Angeles |
| V Chamberlan | 60 Minutes | MTM | Los Angeles |

Cardinality 48 (first 20 shown)

- List thirty-something characters (characters who are in their 30s) on shows which were on the air at some point during the 1980s. (Give the character name, the show name, the start date and end date of the show.)

```
CREATE OR REPLACE VIEW TVQUERY3 AS
SELECT DISTINCT CH.char_name, SH.show_name, SH.start_month, SH.start_year,
SH.end_month, SH.end_year
FROM zCharacter CH, zTVShow SH, zPlay PI
WHERE CH.char_num = PI.char_num
AND PI.show_num = SH.show_num
AND CH.char_age LIKE '3%'
AND ((SH.start_year LIKE '198%') OR (SH.end_year LIKE '198%'));
```

| CHAR_NAME | SHOW_NAME | START_MONTH | START_YEAR | END_MONTH | END_YEAR |
|------------------|-----------------------|-------------|------------|-----------|----------|
| T Betancourt | All in the Family | 1 | 1971 | 9 | 1983 |
| Louise Jefferson | All in the Family | 1 | 1971 | 9 | 1983 |
| Fr Mulcahy | M*A*S*H | 9 | 1972 | 9 | 1983 |
| Louise Jefferson | Jeffersons | 1 | 1975 | 7 | 1985 |
| Peggy Bundy | Married with Children | 4 | 1987 | 5 | 1995 |
| George Jefferson | All in the Family | 1 | 1971 | 9 | 1983 |
| Marybeth Lacey | Cagney&Lacey | 3 | 1982 | 8 | 1988 |
| Chris Cagney | Cagney&Lacey | 3 | 1982 | 8 | 1988 |
| Joe Rossi | Lou Grant | 9 | 1977 | 9 | 1982 |
| Edith Bunker | All in the Family | 1 | 1971 | 9 | 1983 |
| George Jefferson | Jeffersons | 1 | 1975 | 7 | 1985 |
| Hawkeye | M*A*S*H | 9 | 1972 | 9 | 1983 |
| Sue Bundy | Married with Children | 4 | 1987 | 5 | 1995 |

Cardinality 13

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

```
CREATE OR REPLACE VIEW TVQUERY4 AS
SELECT DISTINCT act.actor_name, ch.char_name
FROM zActor act, zCharacter CH, zPlay PIF, zPlay PIS
WHERE act.actor_num=PIF.actor_num
AND act.actor_num = PIS.actor_num
AND PIF.show_num = PIS.show_num
AND PIF.char_num <> PIS.char_num
AND CH.char_num = PIF.char_num;
```

| ACTOR_NAME | CHAR_NAME |
|-------------|-------------|
| John Amos | Henry Evans |
| Katay Sagal | Peggy Bundy |
| Mike Judge | Butthead |
| Mike Judge | Beavis |
| Ted Knight | Fred Baxter |
| Ted Knight | Ted Baxter |
| Katay Sagal | Sue Bundy |
| John Amos | James Evans |

Cardinality 8

5. Name each show, along with that show's highest paid actor. (Give the show name, the actor's name, and the actor's salary on that show.)

```
CREATE OR REPLACE VIEW TVQUERY5 AS
SELECT SH.SHOW_NAME, ACT.ACTOR_NAME, PLAY.ACTOR_SALARY
FROM ZPLAY PLAY, ZTVSHOW SH, ZACTOR ACT
WHERE PLAY.SHOW_NUM = SH.SHOW_NUM
AND ACT.ACTOR_NUM = PLAY.ACTOR_NUM
AND (PLAY.ACTOR_SALARY, PLAY.SHOW_NUM) IN
  (SELECT MAX(PL.ACTOR_SALARY) AS SALARY , PL.SHOW_NUM
   FROM ZPLAY PL
   GROUP BY (PL.SHOW_NUM)
  )
ORDER BY (SH.SHOW_NAME);
```

| SHOW_NAME | ACTOR_NAME | ACTOR_SALARY |
|-----------------------|------------------|--------------|
| 60 Minutes | Morley Schaffer | 10000 |
| All in the Family | Carroll O_Conner | 30000 |
| All in the Family | Jean Stapleton | 30000 |
| All in the Family | Sherman Hemsley | 30000 |
| Beavis & BH | Mike Judge | 10000 |
| Beavis & BH | Mike Judge | 10000 |
| Cagney&Lacey | Tyne Daly | 30000 |
| Good Times | Ester Rolle | 20000 |
| Good Times | John Amos | 20000 |
| Good Times | JJ Walker | 20000 |
| Gunsmoke | James Arness | 22750 |
| Hee Haw | Roy Clark | 10000 |
| Jeffersons | Isabel Sanford | 25000 |
| Jeffersons | Sherman Hemsley | 25000 |
| Lou Grant | R Walden | 30000 |
| M*A*S*H | Alan Alda | 30000 |
| Married with Children | Ed O_Neill | 25000 |
| Married with Children | Katay Sagal | 25000 |
| Mary T Moore | Edward Asner | 30000 |
| Mary T Moore | Ted Knight | 30000 |
| Mary T Moore | Cloris Leachman | 30000 |
| Mary T Moore | Valerie Harper | 30000 |
| Maude | Adrienne Barbeau | 30000 |
| Phyllis | Cloris Leachman | 25000 |
| Rhoda | Valerie Harper | 30000 |

Cardinality 25

6. A spin-off is a show that was created from another "parent" show. Identify the spinoffs that appeared on a different network than their parent show. (Give the spinoff, its network, its parent show and the parent show's network.)

```
CREATE OR REPLACE VIEW TVQUERY6 AS
SELECT DISTINCT SH1.show_name AS spinoff, sh1.network_ID AS
spinoff_network, SH2.show_name AS parent_show, sh2.network_id AS
parent_network
FROM zSpinoff SP, zTVShow SH1, zTVShow SH2
WHERE SP.spinoff_num = SH1.show_num
AND SP.parent_num = SH2.show_num
AND SH1.network_ID <> SH2.network_ID;
```

| SPINOFF | SPINOFF_NETWORK | PARENT_SHOW | PARENT_NETWORK |
|------------|-----------------|-------------------|----------------|
| Maude | ABC | All in the Family | CBS |
| Good Times | NBC | Maude | ABC |
| Lou Grant | NBC | Mary T Moore | CBS |
| Phyllis | ABC | Mary T Moore | CBS |

Cardinality 4

7. Name producers who have either won no awards or have produced a show that won no awards. (Give the producer's name and age.)

```
CREATE OR REPLACE VIEW TVQUERY7 AS
SELECT PR.PROD_NAME, PR.PROD_AGE
FROM ZPRODUCER PR
WHERE PR.PROD_NUM NOT IN
(SELECT EA.PROD_NUM
FROM ZEARNNS EA)
OR PR.PROD_NUM IN
(SELECT PB.PROD_NUM
FROM ZPRODBY PB
WHERE PB.SHOW_NUM NOT IN
(SELECT RE.SHOW_NUM
FROM ZRECEIVES RE)
);
```

| PROD_NAME | PROD_AGE |
|--------------|----------|
| R S Lewis | 45 |
| Dinah Marler | 22 |
| Susan Piper | 60 |
| Mike Jordan | 45 |

Cardinality 4

8. List awards from the 1970s that, according to the current data in the database, were not awarded. (Give the award ID, award name, award type, and award year.)

```

CREATE OR REPLACE VIEW TVQUERY8 AS
SELECT AW.AWARDID, AW.AWARD_NAME, AW.AWARD_TYPE, AW.AWARD_YEAR
FROM ZAWARD AW
WHERE AW.AWARD_YEAR LIKE '197%'
AND AW.AWARDID NOT IN
  (SELECT RE.AWARDID
   FROM ZRECEIVES RE
  UNION
   SELECT EA.AWARDID
   FROM ZEARNNS EA
  UNION
   SELECT WIN.AWARDID
   FROM ZWINS WIN
  );

```

| AWARDID | AWARD_NAME | AWARD_TYPE | AWARD_YEAR |
|---------|------------|--------------|------------|
| 1 | Emmy | LeadCmdyActr | 1970 |
| 2 | Emmy | LeadCmdyActr | 1971 |
| 4 | Emmy | LeadCmdyActr | 1973 |
| 6 | Emmy | LeadCmdyActr | 1975 |
| 7 | Emmy | LeadCmdyActr | 1976 |
| 11 | Emmy | LeadDramActr | 1978 |
| 12 | Emmy | LeadDramActr | 1979 |
| 22 | Emmy | LeadCmdyActs | 1970 |
| 31 | Emmy | LeadCmdyActs | 1979 |
| 32 | Emmy | SuppCmdyActr | 1970 |
| 35 | Emmy | SuppCmdyActr | 1973 |
| 37 | Emmy | SuppCmdyActr | 1975 |
| 38 | Emmy | SuppCmdyActr | 1976 |
| 39 | Emmy | SuppComdActs | 1975 |
| 40 | Emmy | SuppComdActs | 1976 |
| 41 | Emmy | SuppComdActs | 1977 |
| 43 | Emmy | SuppComdActs | 1979 |
| 47 | Emmy | ComedySeries | 1970 |
| 56 | Emmy | ComedySeries | 1979 |
| 60 | Emmy | DramaSeries | 1978 |

Cardinality 33 (first 20 shown)

9. 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.)

```
CREATE OR REPLACE VIEW TVQUERY9 AS
SELECT SH.SHOW_NAME, SH.NETWORK_ID
FROM ZTVSHOW SH
WHERE SH.SHOW_NUM IN
  (SELECT PB.SHOW_NUM
   FROM ZPRODBY PB
   WHERE PB.PROD_NUM IN(
     SELECT E.PROD_NUM
     FROM ZEARNNS E
   ))
AND SH.SHOW_NUM IN
  (SELECT PL.SHOW_NUM
   FROM ZPLAY PL
   WHERE PL.ACTOR_NUM IN
     (SELECT W.ACTOR_NUM
      FROM ZWINS W)
  )
AND SH.SHOW_NUM IN(
  SELECT R.SHOW_NUM
  FROM ZRECEIVES R
);
```

| SHOW_NAME | NETWORK_ID |
|-------------------|------------|
| All in the Family | CBS |
| Lou Grant | NBC |
| Mary T Moore | CBS |
| M*A*S*H | CBS |

Cardinality 4

10. *** 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.)

```
CREATE OR REPLACE VIEW TVQUERY10 AS
SELECT SH.show_name AS ShowName, SH.network_id AS Network
FROM zTVShow SH
WHERE SH.distrID IN (
    SELECT distrID
    FROM zDistributor D
    WHERE D.parent_num IN (
        SELECT parent_num
        FROM zParentComp
        WHERE parent_name = '&ParentCompany'
    )
)
UNION
SELECT SH.show_name AS ShowName, SH.network_id AS Network
FROM zTVShow SH
WHERE SH.network_id IN (
    SELECT network_id
    FROM zNetwork N
    WHERE N.parent_num IN (
        SELECT parent_num
        FROM zParentComp
        WHERE parent_name = '&ParentCompany'
    )
)
UNION
SELECT SH.show_name AS ShowName, SH.network_id AS Network
FROM zTVShow SH
WHERE SH.show_num IN (
    SELECT show_num
    FROM zSponsorBy SB
    WHERE SB.sponsor_num IN (
        SELECT sponsor_num
        FROM zSponsor S
        WHERE S.parent_num IN (
            SELECT parent_num
            FROM zParentComp
            WHERE parent_name = '&ParentCompany'
        )
    )
)
```

);

| SHOWNAME | NETWORK |
|-----------------------|---------|
| All in the Family | CBS |
| Beavis & BH | MTV |
| Good Times | NBC |
| Gunsmoke | CBS |
| Hee Haw | ABC |
| Jeffersons | CBS |
| Married with Children | FOX |
| Maude | ABC |

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