```
/* query 1
   search the steam game released after 2020, with Action tag
SELECT name FROM GAME G
JOIN DESCRIPTION D ON G.app_id = D.app_id
WHERE D.genre like 'Action' AND D.release_dt > DATE("2000-00-00")
/* query 2
   search the description of the game with name "Day of Defeat"
 */
SELECT *
FROM GAME G
JOIN DESCRIPTION
WHERE name like '%Day of Defeat%'
/* query 3
   show the game and the number of its recommendation in ascending
order
 */
SELECT name, COUNT(*) as count
FROM (SELECT g.app_id as appid, g.name, r.recommended
FROM GAME a INNER JOIN REVIEW r
ON g.app id = r.app id) as tb
WHERE recommended like 'True'
GROUP BY name
ORDER BY count
/*
 query 4:
 return all the users who have a review on the game they do not own
SELECT user_id
FROM USER u JOIN REVIEW r ON u.user_id = r.author_id
WHERE EXISTS
  SELECT * FROM OWN GAME o
  WHERE o.a
);
/* query 5
   Search for top 10 games which are most played by users from
Philadelphia
 */
SELECT name, COUNT(*) AS philadelphia_users
FROM GAME g JOIN OWN_GAME o ON g.app_id = o.app_id
JOIN USER u ON o.user_id = u.user_id
WHERE location = "Philadelphia"
GROUP BY name, g.app_id
ORDER BY COUNT(*)
LIMIT 10
/* query 6
   Search for games that positive ratings are 10 times higher than
   negative ratings and allow windows platform. Also the release
```

```
date
   of the game should be later than 2000. Finally, sort the result
by
   number of positive ratings.
SELECT d.app_id AS app_id, name, positive_ratings
FROM DESCRIPTION d JOIN GAME q on d.app id = q.app id
WHERE positive_ratings > 10 * negative_ratings
AND platform LIKE '%windows%'
AND release_dt >= DATE("2000-01-01")
ORDER BY positive ratings DESC
/* query 7
   Search for games that users in Boston play and are released
   after 2000. Then return the name of the game and the rate
   of positive reviews
 WITH temp(app id) AS(
 SELECT app_id FROM OWN_GAME o JOIN USER u ON o.user_id = u.user_id
 SELECT name, SUM(IF(recommended = True, 1, 0)) / COUNT(recommended)
AS rate_pos
 FROM GAME q JOIN DESCRIPTION d ON g.app id = d.app id
JOIN REVIEW r ON g.app_id = r.app_id JOIN temp t ON g.app_id =
t.app id
WHERE release_dt >= DATE("2000-01-01")
GROUP BY name
HAVING COUNT(DISTINCT recommended) > 0
ORDER BY rate_pos
/*
 query 8:
 search the game with app_id, name, short_description, with the
number of positive review
 */
SELECT D.app_id, C.name, C.positivereview, D.short_description
FROM DESCRIPTION D JOIN (SELECT app_id, name, positivereview
                       FROM GAME G
                                JOIN (SELECT app_name, count(review)
AS positivereview
                                       FROM REVIEW
                                      GROUP BY app_id, app_name,
recommended
                                      HAVING recommended like
'True') AS R
                                     ON G.name = R.app_name) AS C
ON D.app_id = C.app_id;
/*
 query 9:
 return all the users who have a review on the game they do not own
SELECT user_id
```

```
FROM USER u JOIN REVIEW r ON u.user_id = r.author_id
WHERE EXISTS
  SELECT * FROM OWN GAME o
  WHERE o.a
);
/*
 query 9
 return the name and number of reviews of the game which is owned by
people from Beijing and was released after 1990
*/
WITH temp(name) AS(
SELECT name FROM GAME g JOIN OWN_GAME o ON g.app_id = o.app_id
JOIN USER u ON o.user id = u.user id
WHERE location <> "Beijing"
SELECT name, num_review
FROM
SELECT name, COUNT(DISTINCT review id) AS num review
FROM GAME g LEFT JOIN REVIEW r ON g.app_id = r.app_id
LEFT JOIN DESCRIPTION d ON g.app_id= d.app_id
WHERE year(release_dt) >= year(1990)
GROUP BY name) t
WHERE name NOT IN
    SELECT * FROM temp
)
/*
 query 10:
 select the name and a random review of the game where the game
genre with Action
 */
SELECT C.name, C.review
FROM DESCRIPTION D JOIN (SELECT app_id, name, review
                       FROM GAME G
                                JOIN (SELECT app_name, review
                                       FROM REVIEW
                                       GROUP BY app_id, app_name) AS
R
                                     ON G.name = R.app_name) AS C
ON D.app_id = C.app_id
GROUP BY name, genre
HAVING genre like '%Action%';
```