

QUERIES

1) SHOW ALL THE COMMENTS OF A GIVEN USER OF ALL THE QUESTIONS OF ALL THE CONTESTS

```
SELECT HANDLE,CONTEST_ID,QUESTION_ID,COMMENT FROM DISCUSSIONS WHERE  
LOWER(HANDLE)=LOWER('THE_LISZTOMANIAC') ORDER BY CONTEST_ID,QUESTION_ID;
```

2) IN A PARTICULAR CONTEST , WRITE USERS WHO PUTS MOST NUMBER OF COMMENTS

```
SELECT HANDLE,COUNT FROM (SELECT HANDLE,COUNT(*) FROM DISCUSSIONS WHERE  
CONTEST_ID = 123 GROUP BY HANDLE) AS B  
WHERE B.COUNT=(  
SELECT MAX(COUNT) FROM (SELECT HANDLE,COUNT(*) FROM DISCUSSIONS WHERE  
CONTEST_ID = 123 GROUP BY HANDLE) AS C);
```

3) LIST THE COMMENTS WHICH HAVE BEEN PUT BETWEEN THE CONTEST

```
SELECT * FROM (SELECT * FROM CONTESTS NATURAL JOIN DISCUSSIONS) AS E WHERE  
CHECK_VALID_DATETIME(E.START_DATE,E.START_TIME,E.DISCussion_DATE,E.DISCUS  
SION_TIME)>0 AND  
CHECK_VALID_DATETIME(E.DISCussion_DATE,E.DISCussion_TIME,E.END_DATE,E.END_T  
IME)>0 ORDER BY CONTEST_ID,DISCUSSION_DATE,DISCUSSION_TIME ASC;
```

4) WRITE A QUERY FOR PRINT THOSE QUESTIONS WHICH DO NOT HAVE ANY EDITORIALS.

```
SELECT CONTEST_ID,QUESTION_ID FROM (SELECT CONTEST_ID,QUESTION_ID FROM  
QUESTIONS EXCEPT  
SELECT CONTEST_ID,QUESTION_ID FROM EDITORIALS) AS E;
```

5) LIST THE USER WHO KNOW MORE THAN 2 PROGRAMMING LANGUAGE

```
SELECT HANDLE FROM (SELECT HANDLE ,COUNT(LANGUAGE) FROM PROGRAMMES_IN  
GROUP BY HANDLE) AS E WHERE COUNT>2;
```

6) LIST ALL THE EDITORIALS AND QUESTIONS OF A PARTICULAR CATEGORY AND OF A PARTICULAR DIFFICULTY LEVEL OF PRACTICE SET

```
SELECT  
D.CONTEST_ID,D.QUESTION_ID,CATEGORY,DIFFICULTY_LEVEL,MAXIMUM_SCORE,TEST_CA  
SES,EDITORIAL_ID,EXPLANATION,CODE FROM (EDITORIALS NATURAL JOIN  
HAS_CATEGORIES) AS C NATURAL JOIN(  
SELECT * FROM QUESTIONS ) AS D  
WHERE LOWER(DIFFICULTY_LEVEL) = LOWER('LOW') AND LOWER(CATEGORY) =  
LOWER('IMPLEMENTATION') AND PRACTICE_SET_STATUS='1';
```

7) LIST THE USER WHO HAS PARTICIPATED IN ALL THE CONTESTS.

```
SELECT HANDLE FROM USERS WHERE HANDLE NOT IN (
SELECT DISTINCT HANDLE
FROM (
(SELECT HANDLE,CONTEST_ID FROM (
SELECT HANDLE,REGISTER_DATE,CONTEST_ID,START_DATE FROM USERS AS A CROSS
JOIN CONTESTS AS B
) AS A WHERE
(CHECK_VALID_DATETIME(REGISTER_DATE,'00:00:00',START_DATE,'00:00:00')>=0) ORDER
BY HANDLE)
EXCEPT
(SELECT HANDLE,CONTEST_ID FROM REGISTERS_IN ORDER BY HANDLE)
) AS D
);
```

8) LIST THE USERS WHO FOLLOWS EACH OTHER

```
SELECT A.FOLLOWER,A.FOLLOWING FROM FOLLOWS AS A JOIN FOLLOWS AS B ON
(A.FOLLOWING=B.FOLLOWER) WHERE A.FOLLOWER=B.FOLLOWING;
```

9) PRINT RATING AND TITLE OF USERS WHICH ARE FOLLOWS EACH OTHER

```
SELECT E.FOLLOWER,E.FOLLOWER_RATING,RETURN_TITLE(E.FOLLOWER_RATING) AS
FOLLOWER_TITLE,E.FOLLOWING,F.FOLLOWING_RATING,RETURN_TITLE(F.FOLLOWING_RAT
ING) AS FOLLOWING_TITLE FROM (
SELECT A.FOLLOWER,B.RATING AS FOLLOWER_RATING,A.FOLLOWING FROM FOLLOWS AS
A JOIN USERS AS B ON(A.FOLLOWER=B.HANDLE)
) AS E JOIN (
SELECT C.FOLLOWER,C.FOLLOWING,D.RATING AS FOLLOWING_RATING FROM FOLLOWS
AS C JOIN USERS AS D ON(C.FOLLOWER=D.HANDLE)
) AS F ON (E.FOLLOWING=F.FOLLOWER) WHERE E.FOLLOWER=F.FOLLOWING;
```

10) LIST THE USER WHO HAVE NOT REGISTERED IN ANY CONTEST.

```
SELECT HANDLE FROM USERS
EXCEPT
SELECT HANDLE FROM REGISTERS_IN;
```

11) GIVEN TWO USERS , LIST THEIR COMMON FRIENDS.

```
SELECT FRIENDS FROM(
SELECT FOLLOWER AS FRIENDS FROM FOLLOWS WHERE
LOWER(FOLLOWER)=LOWER('HULKBUSTER9') UNION SELECT FOLLOWER AS FRIENDS
FROM FOLLOWS WHERE LOWER(FOLLOWING)=LOWER('HULKBUSTER9')
INTERSECT
SELECT FOLLOWER FROM FOLLOWS AS FRIENDS WHERE
LOWER(FOLLOWER)=LOWER('JAYGOSWAMI.2303') UNION SELECT FOLLOWER FROM
FOLLOWS AS FRIENDS WHERE LOWER(FOLLOWING)=LOWER('JAYGOSWAMI.2303')
```

) AS E WHERE E.FRIENDS NOT IN(LOWER('HULKBUSTER9') ,LOWER('JAYGOSWAMI.2303')) ;

12) WRITE HANDLE,CONTEST ID, QUESTION ID,LANGUAGE OF USER S' WHOSE SUBMISSIONS ARE NOT IN REGULAR PROG-LAN.

```
SELECT CONTEST_ID,QUESTION_ID,HANDLE,SUBMISSION_ID,LANGUAGE FROM
SUBMISSIONS AS S WHERE LOWER(LANGUAGE) NOT IN (SELECT LOWER(LANGUAGE)
FROM PROGRAMMES_IN WHERE HANDLE=S.HANDLE);
```

13) PRACTICE SET QUESTIONS WHICH HAS JAVA LANGUAGE SUBMISSIONS AND IT HAS THE MAX SCORE;

```
SELECT
A.CONTEST_ID,A.QUESTION_ID,B.SUBMISSION_ID,B.LANGUAGE,B.SCORE,B.MEMORY,B.RUN
_TIME,B.STATUS,B.PASS_CASES FROM(
(SELECT CONTEST_ID , QUESTION_ID FROM QUESTIONS WHERE PRACTICE_SET_STATUS =
'1')AS A
JOIN
SUBMISSIONS AS B ON A.CONTEST_ID = B.CONTEST_ID AND A.QUESTION_ID =
B.QUESTION_ID
) WHERE LOWER(B.LANGUAGE)=LOWER('JAVA') AND (B.SCORE >= ALL (
SELECT SCORE FROM (
SELECT * FROM SUBMISSIONS AS P WHERE P.CONTEST_ID=B.CONTEST_ID
AND P.QUESTION_ID=B.QUESTION_ID
)AS C
)) ORDER BY A.CONTEST_ID , A.QUESTION_ID;
```

14) QUERY TO PRINT ALL THE USERS, RATING, TITLE, NUMBER OF FOLLOWERS AND FOLLOWING, FREQUENT LANGUAGE, TOTAL SUBMISSIONS, AND TOTAL SCORE

```
SELECT
C.HANDLE,RATING,TITLE,FOLLOWER,FOLLOWING,FREQUENT_LANGUAGE,TOTAL_SUBMISSI
ONS,TOTAL_SCORE FROM (
SELECT HANDLE,COUNT(SUBMISSION_ID) AS TOTAL_SUBMISSIONS FROM SUBMISSIONS
GROUP BY HANDLE ORDER BY HANDLE
) AS C NATURAL JOIN (
SELECT HANDLE,FREQUENT_LANGUAGE FROM (
SELECT HANDLE,LANGUAGE AS FREQUENT_LANGUAGE,COUNT(SUBMISSION_ID) AS
COUNT_SUB FROM SUBMISSIONS GROUP BY HANDLE,LANGUAGE ORDER BY HANDLE
) AS A WHERE COUNT_SUB >= ALL(SELECT COUNT_SUB FROM (SELECT
HANDLE,LANGUAGE,COUNT(SUBMISSION_ID) AS COUNT_SUB FROM SUBMISSIONS GROUP
BY HANDLE,LANGUAGE ORDER BY HANDLE) AS B WHERE B.HANDLE=A.HANDLE)
) AS D
NATURAL JOIN (
SELECT FOLLOWER AS HANDLE,COUNT(FOLLOWING) AS FOLLOWING FROM FOLLOWS
GROUP BY FOLLOWER) AS E
NATURAL JOIN (
SELECT FOLLOWING AS HANDLE,COUNT(FOLLOWER) AS FOLLOWER FROM FOLLOWS
GROUP BY FOLLOWING) AS F
NATURAL JOIN (
SELECT HANDLE,RATING,RETURN_TITLE(RATING) AS TITLE FROM USERS) AS G
NATURAL JOIN (
```

```
SELECT H.HANDLE,SUM(SCORE) AS TOTAL_SCORE FROM SUBMISSIONS AS H WHERE  
H.SCORE>= ALL(SELECT SCORE FROM SUBMISSIONS WHERE CONTEST_ID=H.CONTEST_ID  
AND QUESTION_ID=H.QUESTION_ID AND HANDLE=H.HANDLE) GROUP BY H.HANDLE) AS I;
```

**15) WRITE RATING AND TITLE OF EVERY HANDLE AFTER EVERY
CONTEST IN WHICH THEY PARTICIPATED**

```
SELECT *,RETURN_TITLE(CONTEST_RATING) AS TITLE FROM (  
SELECT HANDLE,CONTEST_ID,CONTEST_RATING FROM REGISTERS_IN  
) AS A  
NATURAL JOIN (  
SELECT HANDLE,CONTEST_ID FROM LEADERBOARD  
) AS B ORDER BY HANDLE,CONTEST_ID;
```