

Query 1:

```
SELECT arg(m.x) FROM (SELECT u.userid, count(a.user_activity) AS x
FROM user_data u JOIN activity_data a
ON u.user_id = a.user_id
GROUP BY u.user_id
HAVING a.user_activity = 16 AND u.device_type IS NOT NULL) m
```

Query 2:

```
SELECT AVG(m.x) FROM (SELECT arg(m.x) FROM (SELECT u.userid, count(a.user_activity)
AS x
FROM user_data u JOIN activity_data a
ON u.user_id = a.user_id
GROUP BY u.user_id
HAVING a.user_activity = 16 AND u.device_type IS NOT NULL) m) m
```

Query 3:

```
SELECT AVG(m.x) FROM
(SELECT u.user_id, COUNT (a.user_activity) as X
FROM user_data u JOIN activity_data a
ON u.user_id = a.user_id
GROUP BY u.user_id
HAVING a.user_activity = 16
AND u.device_type IS NOT NULL)m
```

Query 4:

```
SELECT AVG(m.x) FROM
```

```
(SELECT u.user_id, COUNT(a.user_activity) as X  
FROM user_data u JOIN activity_data a  
ON u.user_id = a.user_id  
GROUP BY u.user_id  
HAVING a.user_activity = 16 AND (a.time_activity - u.time_register) >= '06:00:00')m
```