**Foundation**

SQL

Module 10

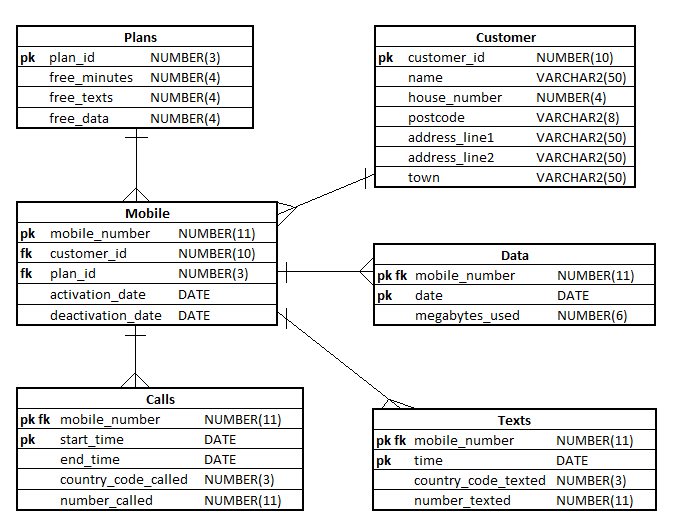
Subqueries (part 2) – Query reading

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**Document change and version control**

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**Exercise 1**

## Describe in simple language what each of the following queries will return.

## Some of the queries will produce an error.

## Some will produce meaningless information. Explain which is which.

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| **Questions** |
| 1. SELECT mobile\_number   FROM mobile  WHERE activation\_date =  (  SELECT MAX(deactivation\_date)  FROM mobile  );  This will have an error,  MAX(deactivation\_date) is different from activation\_date, so they can’t equal. |
| 1. SELECT mobile\_number   FROM calls  WHERE start\_time =  (  SELECT MIN(start\_time)  FROM calls  );  The earliest start time for calls from a single mobile number (from list of mobile numbers)  Should work |
| 1. SELECT plan\_id   FROM plans  WHERE free\_minutes =  (  SELECT MAX(free\_minutes)  FROM plans  ) ;  Show the plan id with the largest free minutes plan  Should work |
| 1. SELECT name   FROM customer  WHERE customer\_id =  (  SELECT customer\_id,  COUNT(customer\_id)  FROM mobile  GROUP BY customer\_id  );  Error  There is no group by in the first select so the number of columns in both are not the same  First : two non aggregates  Second: one aggregate and one non aggregate |