

1. GET THE IDS AND NAMES OF CUSTOMERS WHO PURCHASED A PHONE BEFORE 2017 AND HAVE BEEN OFFERED A 'FREE NEW PHONE UPGRADE!' INCENTIVE

```
SELECT FPDM_CUSTOMER.CUSTOMER_ID,  
       FPDM_CUSTOMER.FNAME,  
       FPDM_CUSTOMER.LNAME  
FROM FPDM_CUSTOMER,  
     FPDM_PHONE,  
     FPDM_GIVEN,  
     FPDM_INCENTIVE  
WHERE FPDM_PHONE.CUSTOMER_ID = FPDM_CUSTOMER.CUSTOMER_ID  
      AND FPDM_GIVEN.CUSTOMER_ID = FPDM_CUSTOMER.CUSTOMER_ID  
      AND FPDM_GIVEN.INCENTIVE_ID = FPDM_INCENTIVE.INCENTIVE_ID  
      AND FPDM_INCENTIVE.DESRIPTION = 'FREE NEW PHONE UPGRADE!'  
      AND FPDM_PHONE.PURCHASE_DT < TO_DATE('2017/01/01', 'YYYY/MM/DD');
```

RESULT:

CUSTOMER_ID FNAME	
1	DAVE

  

LNAME	
	GILMOUR

2.GET THE NAMES, PLAN NAMES, PHONE NUMBERS, EMAILS, AND START DATES OF ALL CUSTOMERS WHO SWITCHED TO THE TELECOMMUNICATIONS COMPANY FROM ANOTHER TELECOMMUNICATIONS PROVIDER. ALSO GET THE NAMES OF THE COMPETITORS THAT THE CUSTOMERS SWITCHED FROM.

```
SELECT FPDM_CUSTOMER.FNAME,  
       FPDM_CUSTOMER.LNAME,  
       FPDM_PLAN.PLAN_NM,  
       FPDM_CUSTOMER.PH_NUM,  
       FPDM_CUSTOMER.EMAIL,  
       FPDM_CUSTOMER.START_DT,  
       FPDM_COMPETITOR.COMPETITOR_NM  
FROM (FPDM_CUSTOMER
```

```

INNER JOIN FPDM_PLAN
  ON FPDM_PLAN.PLAN_ID = FPDM_CUSTOMER.PLAN_ID)
INNER JOIN FPDM_COMPETITOR
  ON FPDM_COMPETITOR.COMPETITOR_ID = FPDM_CUSTOMER.SWITCHED_FROM;

```

RESULT:

FNAME	LNAME	PLAN_NM
RICK	WRIGHT	UNLIMITED_TALKING
SYD	BARRETT	HIGH_ROLLER
NICK	MASON	UNLIMITED_EVERYTHING
PINK	FLOYD	UNLIMITED_DATA

  

PH_NUM	EMAIL	START_DT	COMPETITOR_NM
4347776723	RICKWRIGHT@GMAIL.COM	03-JAN-17	VERIZON
2327876656	SYDBARRETT@GMAIL.COM	04-MAR-15	ATT
9890006453	NICKMASON@GMAIL.COM	24-MAY-18	ATT
4789209845	PINKFLOYD@GMAIL.COM	01-JUL-16	SPRINT

3. GET THE CONTENTS OF ALL THE TEXT MESSAGES SENT BY CUSTOMERS AFTER THE YEAR 2016. ALSO GET THE NAMES AND PHONE NUMBERS OF THE CUSTOMERS WHO SENT THEM, AND THE DATE ON WHICH THE TEXTS WERE SENT.

```

SELECT TX.CONTENT,
       C.FNAME,
       C.LNAME,
       C.PH_NUM,
       CU.DT
FROM
  (FPDM_COMMUNICATION CU
   INNER JOIN FPDM_CUSTOMER C
     ON CU.CUSTOMER_ID = C.CUSTOMER_ID)
  INNER JOIN FPDM_TEXT TX
    ON CU.COMMUNICATION_ID = TX.COMMUNICATION_ID
WHERE CU.DT > TO_DATE('2016/12/31', 'YYYY/MM/DD');

```

RESULT:

## CONTENT

```
HEY
SUP
DO YOU WANT TO GET FOOD LATER?
SORRY I MIGHT BE A FEW MINUTES LATE
YO YO Y000!!
HAHAHA NO WAY
WHATEVER, FINE
WHAT IS UP MA DUDE
```

8 rows selected.

FNAME	LNAME
DAVE	GILMOUR
DAVE	GILMOUR
RICK	WRIGHT
NICK	MASON
NICK	MASON
NICK	MASON
SYD	BARRETT
PINK	FLOYD

PH_NUM	DT
9897673343	13-FEB-17
9897673343	16-MAY-17
4347776723	16-MAY-17
9890006453	25-JUN-18
9890006453	01-JUL-18
9890006453	14-AUG-18
2327876656	15-MAR-17
4789209845	21-JUN-17

## 4. COUNT THE NUMBER OF CUSTOMERS WHO PURCHASED THEIR PHONES ONLINE

```
SELECT COUNT(*)
FROM FPDM_CUSTOMER C,
     FPDM_PHONE P,
     FPDM_SITE S
WHERE P.CUSTOMER_ID = C.CUSTOMER_ID
     AND P.PURCHASE_SITE = S.SITE_ID
     AND S.SITE_ID = 1;
```

RESULT:

COUNT(*)
2

5. GIVE THE PLAN NAMES AND PLAN IDS OF EVERY CUSTOMER WHO HAS PURCHASED AN IPHONE 5 OR AN IPHONE 6. ALSO RETURN THE MODELS AND SERIAL NUMBERS OF THE IPHONES, AND THE IDS OF THE CUSTOMERS WHO PURCHASED THEM

```
SELECT PL.PLAN_ID,
       PL.PLAN_NM, PH.MODEL,
       PH.SERIAL_NUM,
       C.CUSTOMER_ID
FROM FPDM_PLAN PL,
     FPDM_CUSTOMER C,
     FPDM_PHONE PH
WHERE C.PLAN_ID = PL.PLAN_ID
      AND PH.CUSTOMER_ID = C.CUSTOMER_ID
      AND (PH.MODEL = 'IPHONE 6' OR PH.MODEL = 'IPHONE 5');
```

RESULT:

PLAN_ID	PLAN_NM	MODEL	SERIAL_NUM
2	UNLIMITED_TALKING	IPHONE 6	9900000XC7887
4	UNLIMITED_DATA	IPHONE 6	87GH78C9S9D096GK
4	UNLIMITED_DATA	IPHONE 5	787DG456374HGF
5	HIGH_ROLLER	IPHONE 5	123HDGF780X8J4

  

CUSTOMER_ID
1
6
7
5

6. GET THE CONTENTS OF ALL TEXT MESSAGES SENT BY CUSTOMERS THAT WERE RECEIVED BY CONTACTS WHO ARE NOT ALSO CUSTOMERS. ALSO INCLUDE THE IDS OF THE CONTACTS THAT RECEIVED THE MESSAGES, THE COMMUNICATION ID, DATE ON WHICH THE TEXTS WERE SENT, AND THE NAMES OF THE CUSTOMERS WHO SENT THEM.

```
SELECT TX.CONTENT,
       CT.CONTACT_ID,
       CU.COMMUNICATION_ID,
```

```

CU.DT,
C.FNAME,
C.LNAME
FROM FPDM_CUSTOMER C,
    FPDM_COMMUNICATION CU,
    FPDM_TEXT TX,
    FPDM_CONTACT CT,
    FPDM_RECEIVED_BY R
WHERE CU.CUSTOMER_ID = C.CUSTOMER_ID
    AND CU.COMMUNICATION_ID = TX.COMMUNICATION_ID
    AND CT.CONTACT_ID = R.CONTACT_ID
    AND CU.COMMUNICATION_ID = R.COMMUNICATION_ID;

```

RESULT:

CONTENT

```

-----
DO YOU WANT TO GET FOOD LATER?
SORRY I MIGHT BE A FEW MINUTES LATE
I AM HUNGRIYY
OK
NO WORRIES!
ROFL!

```

6 rows selected.

CONTACT_ID	COMMUNICATION_ID	DT	FNAME	LNAME
2	5	16-MAY-17	RICK	WRIGHT
3	6	25-JUN-18	NICK	MASON
4	11	11-NOV-11	STORM	THORGERSON
5	12	01-DEC-11	STORM	THORGERSON
6	13	03-FEB-13	STORM	THORGERSON
6	14	27-SEP-15	STORM	THORGERSON