REPORT ON
Data & Customer Relationship Management (CRM) of Telecommunication

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INDEX

SECTION 1: Overview

Project Topic: Data & Customer Relationship Management (CRM) of Telecommunication

Overview: Customer Relationship Management (CRM) helps an organization build a database about its customer that manages data, customer service providers and products. Customer can access information to access customer needs with product and offering.

Entities:

1. **eBilling:** User interface to view billing related data and perform billing related activities
2. **Promotions:** There are various products and services provided by the organisation like call plans, message plans, netpacks and various other services. Promotions are also for the bulk order of the products and services
3. **SIM:** Different types of SIMs are provided like postpaid and prepaid with subtypes in that like nano, micro, etc
4. **Router:** Different types of fixed line home broadband packages provided
5. **TV Equiment & services:** Set top box activation and services
6. **Handset:** Different brand phones with and without plan and network plans
7. **Root Products:** In this includes the accidental damage, insurance, theft & loss coverage, repair services. Various laptops, notebooks, tablets, ipad with and without plans, pay as you go and postpaid mobile plans
8. **Product lines:** Used to group products for various uses including eligibility rules, compatibility rules, EDW reporting, chordiant - one product can belong to multiple product lines
9. **Customer:** Customer details will be stored in this entity. Create, update, purchase and all
10. **Category:** Specification of product Catalogues infers the definition of what products are included in it and their organization in a hierarchy of categories

SECTION 2:

APPROACH:

The CRM system of telecommunication will be having different products and services and for designing the database you need the data. The design requirement team provides a excel sheet having data of all the products and using various functions of excel like concatenate, compare you can insert those data in DB. Then further created tables as follows:
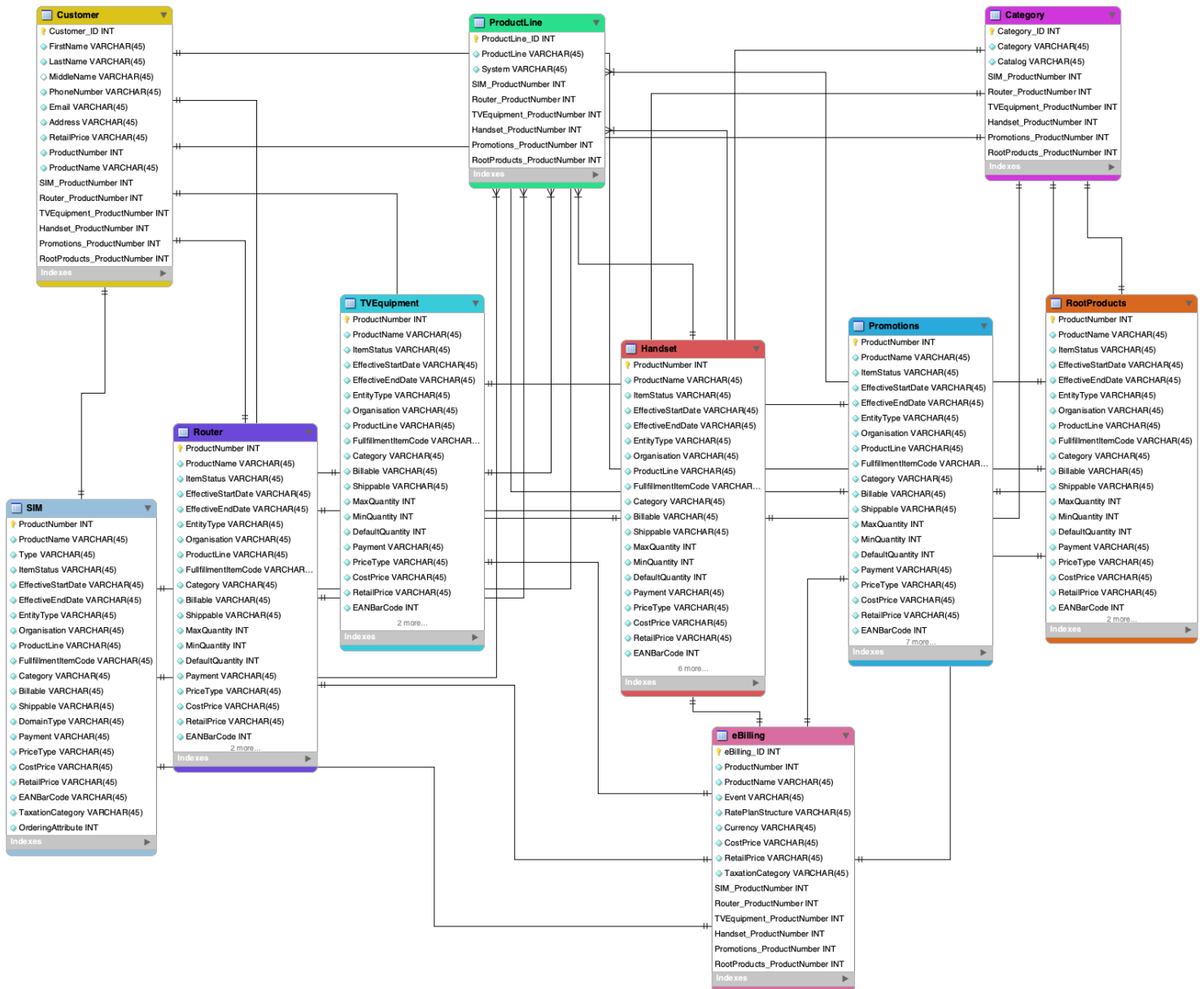
- Product Details: This table act as Parent table and has all the details of products
- Router: This table has just the product number and name
- Handset: This table has just the product number, name, color, warranty, manufacturer, memory
- Root Products: This table has just the product number and name
- TVEquipment: This table has just the product number and name
- SIM: This table has just the product number, name and type
- Promotions: This table has just the product number and name. Also, it has penalty related fields too
- Category: It has Category, Catalog
- Product Line: It has Product lines, system
- eBilling: This table has pricing of product
- Billing Account Details: The Customer bills history is stored in this table
- Customer: The customer details and products purchased are stored in this table

Using various queries like join, subqueries, update, insert, select, delete the various field information can be known and updated or deleted.
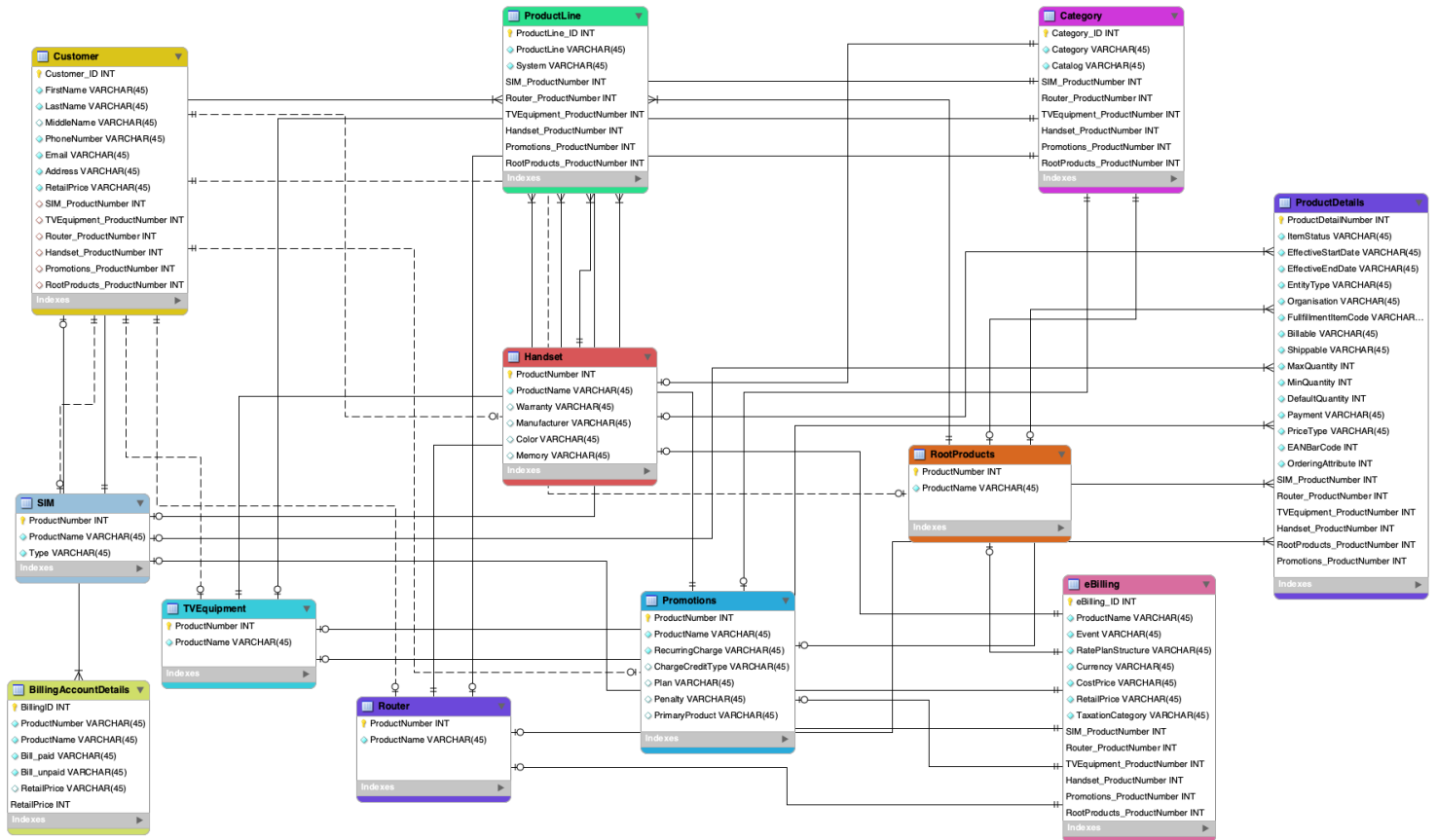
SECTION 3:

ER Diagram:

Unnormalized ER diagram:

Customer
- Customer_ID INT
- FirstName VARCHAR(45)
- LastName VARCHAR(45)
- MiddleName VARCHAR(45)
- PhoneNumber VARCHAR(45)
- Email VARCHAR(45)
- Address VARCHAR(45)
- RetailPrice VARCHAR(45)
- ProductNumber INT
- ProductName VARCHAR(45)
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

ProductLine
- ProductLine_ID INT
- ProductLine VARCHAR(45)
- System VARCHAR(45)
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

Category
- Category_ID INT
- Category VARCHAR(45)
- Catalog VARCHAR(45)
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

TVEquipment
- ProductNumber INT
- ProductName VARCHAR(45)
- ItemStatus VARCHAR(45)
- EffectiveStartDate VARCHAR(45)
- EffectiveEndDate VARCHAR(45)
- EntityType VARCHAR(45)
- Organisation VARCHAR(45)
- ProductLine VARCHAR(45)
- FullfillmentItemCode VARCHAR...
- Category VARCHAR(45)
- Billable VARCHAR(45)
- Shippable VARCHAR(45)
- MaxQuantity INT
- MinQuantity INT
- DefaultQuantity INT
- Payment VARCHAR(45)
- PriceType VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- EANBarCode INT
- 2 more...
- Indexes

Handset
- ProductNumber INT
- ProductName VARCHAR(45)
- ItemStatus VARCHAR(45)
- EffectiveStartDate VARCHAR(45)
- EffectiveEndDate VARCHAR(45)
- EntityType VARCHAR(45)
- Organisation VARCHAR(45)
- ProductLine VARCHAR(45)
- FullfillmentItemCode VARCHAR...
- Category VARCHAR(45)
- Billable VARCHAR(45)
- Shippable VARCHAR(45)
- MaxQuantity INT
- MinQuantity INT
- DefaultQuantity INT
- Payment VARCHAR(45)
- PriceType VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- EANBarCode INT
- 6 more...
- Indexes

Promotions
- ProductNumber INT
- ProductName VARCHAR(45)
- ItemStatus VARCHAR(45)
- EffectiveStartDate VARCHAR(45)
- EffectiveEndDate VARCHAR(45)
- EntityType VARCHAR(45)
- Organisation VARCHAR(45)
- ProductLine VARCHAR(45)
- FullfillmentItemCode VARCHAR...
- Category VARCHAR(45)
- Billable VARCHAR(45)
- Shippable VARCHAR(45)
- MaxQuantity INT
- MinQuantity INT
- DefaultQuantity INT
- Payment VARCHAR(45)
- PriceType VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- EANBarCode INT
- 7 more...
- Indexes

RootProducts
- ProductNumber INT
- ProductName VARCHAR(45)
- ItemStatus VARCHAR(45)
- EffectiveStartDate VARCHAR(45)
- EffectiveEndDate VARCHAR(45)
- EntityType VARCHAR(45)
- Organisation VARCHAR(45)
- ProductLine VARCHAR(45)
- FullfillmentItemCode VARCHAR(45)
- Category VARCHAR(45)
- Billable VARCHAR(45)
- Shippable VARCHAR(45)
- MaxQuantity INT
- MinQuantity INT
- DefaultQuantity INT
- Payment VARCHAR(45)
- PriceType VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- EANBarCode INT
- 2 more...
- Indexes

Router
- ProductNumber INT
- ProductName VARCHAR(45)
- ItemStatus VARCHAR(45)
- EffectiveStartDate VARCHAR(45)
- EffectiveEndDate VARCHAR(45)
- EntityType VARCHAR(45)
- Organisation VARCHAR(45)
- ProductLine VARCHAR(45)
- FullfillmentItemCode VARCHAR...
- Category VARCHAR(45)
- Billable VARCHAR(45)
- Shippable VARCHAR(45)
- MaxQuantity INT
- MinQuantity INT
- DefaultQuantity INT
- Payment VARCHAR(45)
- PriceType VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- EANBarCode INT
- 2 more...
- Indexes

SIM
- ProductNumber INT
- ProductName VARCHAR(45)
- Type VARCHAR(45)
- ItemStatus VARCHAR(45)
- EffectiveStartDate VARCHAR(45)
- EffectiveEndDate VARCHAR(45)
- EntityType VARCHAR(45)
- Organisation VARCHAR(45)
- ProductLine VARCHAR(45)
- FullfillmentItemCode VARCHAR(45)
- Category VARCHAR(45)
- Billable VARCHAR(45)
- Shippable VARCHAR(45)
- DomainType VARCHAR(45)
- Payment VARCHAR(45)
- PriceType VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- EANBarCode VARCHAR(45)
- TaxationCategory VARCHAR(45)
- OrderingAttribute INT
- Indexes

eBilling
- eBilling_ID INT
- ProductNumber INT
- ProductName VARCHAR(45)
- Event VARCHAR(45)
- RatePlanStructure VARCHAR(45)
- Currency VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- TaxationCategory VARCHAR(45)
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

At first all the individual product details were written in respective tables but later on using normalization the below ER diagram was created.

Normalized ER Diagram:

ProductLine
- ProductLine_ID INT
- ProductLine VARCHAR(45)
- System VARCHAR(45)
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

Category
- Category_ID INT
- Category VARCHAR(45)
- Catalog VARCHAR(45)
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

Customer
- Customer_ID INT
- FirstName VARCHAR(45)
- LastName VARCHAR(45)
- MiddleName VARCHAR(45)
- PhoneNumber VARCHAR(45)
- Email VARCHAR(45)
- Address VARCHAR(45)
- RetailPrice VARCHAR(45)
- SIM_ProductNumber INT
- TVEquipment_ProductNumber INT
- Router_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

ProductDetails
- ProductDetailNumber INT
- ItemStatus VARCHAR(45)
- EffectiveStartDate VARCHAR(45)
- EffectiveEndDate VARCHAR(45)
- EntityType VARCHAR(45)
- Organisation VARCHAR(45)
- FulfillmentItemCode VARCHAR...
- Billable VARCHAR(45)
- Shippable VARCHAR(45)
- MaxQuantity INT
- MinQuantity INT
- DefaultQuantity INT
- Payment VARCHAR(45)
- PriceType VARCHAR(45)
- EANBarCode INT
- OrderingAttribute INT
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- RootProducts_ProductNumber INT
- Promotions_ProductNumber INT
- Indexes

Handset
- ProductNumber INT
- ProductName VARCHAR(45)
- Warranty VARCHAR(45)
- Manufacturer VARCHAR(45)
- Color VARCHAR(45)
- Memory VARCHAR(45)
- Indexes

RootProducts
- ProductNumber INT
- ProductName VARCHAR(45)
- Indexes

SIM
- ProductNumber INT
- ProductName VARCHAR(45)
- Type VARCHAR(45)
- Indexes

TVEquipment
- ProductNumber INT
- ProductName VARCHAR(45)
- Indexes

Promotions
- ProductNumber INT
- ProductName VARCHAR(45)
- RecurringCharge VARCHAR(45)
- ChargeCreditType VARCHAR(45)
- Plan VARCHAR(45)
- Penalty VARCHAR(45)
- PrimaryProduct VARCHAR(45)
- Indexes

eBilling
- eBilling_ID INT
- ProductName VARCHAR(45)
- Event VARCHAR(45)
- RatePlanStructure VARCHAR(45)
- Currency VARCHAR(45)
- CostPrice VARCHAR(45)
- RetailPrice VARCHAR(45)
- TaxationCategory VARCHAR(45)
- SIM_ProductNumber INT
- Router_ProductNumber INT
- TVEquipment_ProductNumber INT
- Handset_ProductNumber INT
- Promotions_ProductNumber INT
- RootProducts_ProductNumber INT
- Indexes

BillingAccountDetails
- BillingID INT
- ProductNumber VARCHAR(45)
- ProductName VARCHAR(45)
- Bill_paid VARCHAR(45)
- Bill_unpaid VARCHAR(45)
- RetailPrice VARCHAR(45)
- RetailPrice INT
- Indexes

Router
- ProductNumber INT
- ProductName VARCHAR(45)
- Indexes

SECTION 4:

TRANSACTIONS:

Using transactions, the data is inserted into table as follows:

Using transactions, the data is updated into table as follows:


```
1  UPDATE ProductDetails SET ProductName= "Standard SIM Red" WHERE SIM_ProductNumber="52000";
2  UPDATE ProductDetails SET ProductName= "Micro SIM Red" WHERE SIM_ProductNumber="52002";
3  UPDATE ProductDetails SET ProductName= "Standard SIM White" WHERE SIM_ProductNumber="52003";
4  UPDATE ProductDetails SET ProductName= "Micro SIM White" WHERE SIM_ProductNumber="52004";
5  UPDATE ProductDetails SET ProductName= "iPad Micro Sim White" WHERE SIM_ProductNumber="52005";
6  UPDATE ProductDetails SET ProductName= "Nano SIM White" WHERE SIM_ProductNumber="52006";
7  UPDATE ProductDetails SET ProductName= "NFC Dual SIM" WHERE SIM_ProductNumber="52007";
8  UPDATE ProductDetails SET ProductName= "Micro NFC SIM" WHERE SIM_ProductNumber="52008";
9  UPDATE ProductDetails SET ProductName= "Nano NFC SIM" WHERE SIM_ProductNumber="52009";
10 UPDATE ProductDetails SET ProductName= "Dual Format SIM White" WHERE SIM_ProductNumber="52010";
11 UPDATE ProductDetails SET ProductName= "Nokia N900 black" WHERE Handset_ProductNumber="68400";
12 UPDATE ProductDetails SET ProductName= "Nokia C5 black" WHERE Handset_ProductNumber="68401";
13 UPDATE ProductDetails SET ProductName= "Samsung Galaxy J5 black" WHERE Handset_ProductNumber="68402";
14 UPDATE ProductDetails SET ProductName= "Samsung Galaxy S8 midnight black" WHERE Handset_ProductNumber="68403";
15 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 64GB silver" WHERE Handset_ProductNumber="68404";
16 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 64GB space grey" WHERE Handset_ProductNumber="68405";
17 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 64GB gold" WHERE Handset_ProductNumber="68406";
18 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 256GB silver" WHERE Handset_ProductNumber="68407";
19 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 256GB space grey" WHERE Handset_ProductNumber="68408";
20 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 256GB gold" WHERE Handset_ProductNumber="68409";
21 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 Plus 64GB silver" WHERE Handset_ProductNumber="68410";
22 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 Plus 64GB space grey" WHERE Handset_ProductNumber="68411";
23 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 Plus 64GB gold" WHERE Handset_ProductNumber="68412";
24 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 Plus 256GB silver" WHERE Handset_ProductNumber="68413";
25 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 Plus 256GB space grey" WHERE Handset_ProductNumber="68414";
26 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 Plus 256GB gold" WHERE Handset_ProductNumber="68415";
27 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 64GB red" WHERE Handset_ProductNumber="68416";
28 UPDATE ProductDetails SET ProductName= "Apple iPhone 8 Plus 64GB red" WHERE Handset_ProductNumber="68417";
29 UPDATE ProductDetails SET ProductName= "Google Pixel 3 XL 128GB black" WHERE Handset_ProductNumber="68418";
30 UPDATE ProductDetails SET ProductName= "Google Pixel 3 XL 128GB white" WHERE Handset_ProductNumber="68419";
31 UPDATE ProductDetails SET ProductName= "Google Pixel 3 XL 128GB pink" WHERE Handset_ProductNumber="68420";
32 UPDATE ProductDetails SET ProductName= "One Plus 6T Colour 1" WHERE Handset_ProductNumber="68421";
33 UPDATE ProductDetails SET ProductName= "One Plus 6T Colour 1 PAYG" WHERE Handset_ProductNumber="68422";
34 UPDATE ProductDetails SET ProductName= "One Plus 6T  Colour 2" WHERE Handset_ProductNumber="68423";
35 UPDATE ProductDetails SET ProductName= "One Plus 6T Colour 2 PAYG" WHERE Handset_ProductNumber="68424";
```

100% ◇ 96:95

Action Output ◇

	Time	Action	Response
✓ 110	17:31:21	UPDATE ProductDetails SET ProductName= "JBL Headphones T450 white" WHERE RootProducts_ProductNumb...	1 row(s) affected Rows matched
✓ 111	17:31:21	UPDATE ProductDetails SET ProductName= "Apple Airpods" WHERE RootProducts_ProductNumber="104989"	1 row(s) affected Rows matched
✓ 112	17:31:21	UPDATE ProductDetails SET ProductName= "Sony EX110AP headphones black" WHERE RootProducts_ProductN...	1 row(s) affected Rows matched
✓ 113	17:31:21	UPDATE ProductDetails SET ProductName= "Sony ZX220BTB Wireless headphones" WHERE RootProducts_Prod...	1 row(s) affected Rows matched
✓ 114	17:31:21	UPDATE ProductDetails SET ProductName= "Apple EarPods Lightning Connect" WHERE RootProducts_ProductN...	1 row(s) affected Rows matched
✓ 115	17:31:21	UPDATE ProductDetails SET ProductName= "Google Wifi" WHERE RootProducts_ProductNumber="104993"	1 row(s) affected Rows matched
✓ 116	17:31:21	UPDATE ProductDetails SET ProductName= "Google Chromecast" WHERE RootProducts_ProductNumber="1049...	1 row(s) affected Rows matched
✓ 117	17:31:21	UPDATE ProductDetails SET ProductName= "Google Home" WHERE RootProducts_ProductNumber="104995"	1 row(s) affected Rows matched

SECTION 5:

PROCEDURES:

1. Created procedure for creation of Root products, router, TV equipment, promotions, handset, SIM in Product Detail table. Also, once this procedure is called the trigger runs for creation of the same products in respective tables too

Query:

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `RouterProductcreation`()
BEGIN
INSERT INTO `mydb`.`ProductDetails` VALUES(545,"Active","2017-01-01","2017-11-03","Product","Default Organisation","Fixed Broadband Equipment","Yes","Yes","1","0","0","Postpaid","One Time","","82090",01,200696,01,01,01,01,'Vodafone Broadband Router');
INSERT INTO `mydb`.`ProductDetails` VALUES(546,"Active","2017-01-01","2017-11-03","Product","Default Organisation","Fixed Broadband Equipment","Yes","Yes","1","0","0","Postpaid","One Time","","82090",01,200697,01,01,01,01,'Vodafone Broadband Router (Model D)');
END$$
DELIMITER ;
```

```
18
19    DELIMITER $$
20  • CREATE DEFINER=`root`@`localhost` PROCEDURE `HandsetAndPromotionProductCreation`()
21    BEGIN
22    INSERT INTO `mydb`.`ProductDetails` VALUES(514,"Active","2016-08-20","NULL","Product","VF Red Brand","Handset","Yes","Yes","999","0","0","","One Time","0;0;0","164050
23
24    INSERT INTO `mydb`.`ProductDetails` VALUES(556,"Inactive","2014-09-01","NULL","Promotion","VF Red Brand","Promotion","No","No","1","1","1","Postpaid","Recurring","","0
25    END$$
26    DELIMITER ;
27    |
28
29    DELIMITER $$
30  • CREATE DEFINER=`root`@`localhost` PROCEDURE `RouterProductcreation`()
31    BEGIN
32    INSERT INTO `mydb`.`ProductDetails` VALUES(545,"Active","2017-01-01","2017-11-03","Product","Default Organisation","Fixed Broadband Equipment","Yes","Yes","1","0","0",
33    INSERT INTO `mydb`.`ProductDetails` VALUES(546,"Active","2017-01-01","2017-11-03","Product","Default Organisation","Fixed Broadband Equipment","Yes","Yes","1","0","0",
34    END$$
35    DELIMITER ;
```

2. Created procedure for updating fields that are NULL in Product Detail table using subquery function
   Query:

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `Update_subquery_forNullEntryInPayment`()
BEGIN
Update ProductDetails
SET Payment = 'Prepaid' where Payment IN (select Payment from ProductDetails where Payment = "" and PriceType='One Time');
END$$
```

```
DELIMITER;
```



```
1  Update ProductDetails
2  SET Payment = 'Prepaid' where Payment IN (select Payment from ProductDetails where Payment = "" and PriceType='One Time');
3
```

3. Created procedure for creating and updating Customer and billing details
   Query:

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `CUSTOMERBILLING`()
BEGIN
START TRANSACTION;
INSERT INTO `mydb`.`Customer`
VALUES(5001,"Joe","","Chandler","7276327105","joe@xyz.com","Califorina","0"
,"86601","0","0","0","104957");


INSERT INTO `mydb`.`BillingAccountDetails` VALUES("1-
HJGL","104957","unpaid",1,"5001");
INSERT INTO `mydb`.`BillingAccountDetails` VALUES("1-
HJGL","86601","paid",1,"5001");
COMMIT;
END$$
DELIMITER;
```

```
72  DELIMITER $$
73  CREATE DEFINER=`root`@`localhost` PROCEDURE `CUSTOMERBILLING`()
74  BEGIN
75  START TRANSACTION;
76  INSERT INTO `mydb`.`Customer` VALUES(5001,"Joe","","Chandler","7276327105","joe@xyz.com","Califorina","0","86601","0","0","0","104957");
77
78
79  INSERT INTO `mydb`.`BillingAccountDetails` VALUES("1-HJGL","104957","unpaid",1,"5001");
80  INSERT INTO `mydb`.`BillingAccountDetails` VALUES("1-HJGL","86601","paid",1,"5001");
81  COMMIT;
82  END$$
83  DELIMITER ;
84
```

4. Created procedure for getting Customer and billing details using INNER JOIN
   between Customer, BillingAccountDetails and ebilling
   Query:

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE
`CustomerAccountAndProductDetails`()
BEGIN
```

```
select distinct b.BillingID, b.ProductNumber, b.Bills, b.Customer_ID,
c.FirstName, c.MiddleName, c.LastName,
c.PhoneNumber, c.Email, c.Address,e.CostPrice,e.RetailPrice,e.Currency,
e.TaxationCategory,e.Event,e.RatePlanStructure
from BillingAccountDetails b
inner JOIN Customer c
ON
b.Customer_ID = c.Customer_ID
INNER JOIN eBilling e
ON
c.SIM_ProductNumber=e.SIM_ProductNumber;
END$$
DELIMITER;
```

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `CustomerAccountAndProductDetails`()
BEGIN
select distinct b.BillingID, b.ProductNumber, b.Bills, b.Customer_ID, c.FirstName, c.MiddleName, c.LastName,
c.PhoneNumber, c.Email, c.Address,e.CostPrice,e.RetailPrice,e.Currency,
e.TaxationCategory,e.Event,e.RatePlanStructure
from BillingAccountDetails b
inner JOIN Customer c
ON
b.Customer_ID = c.Customer_ID
INNER JOIN eBilling e
ON
c.SIM_ProductNumber=e.SIM_ProductNumber;
END$$
DELIMITER ;
```

5. Created procedure for getting the customer details who haven't paid the bills for product purchase using SELECT SUBQUERY
   Query:

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `unpaid_bills`()
BEGIN
select * from Customer where Customer_ID IN (select Customer_ID from
BillingAccountDetails where Bills='unpaid' );
END$$
DELIMITER;
```
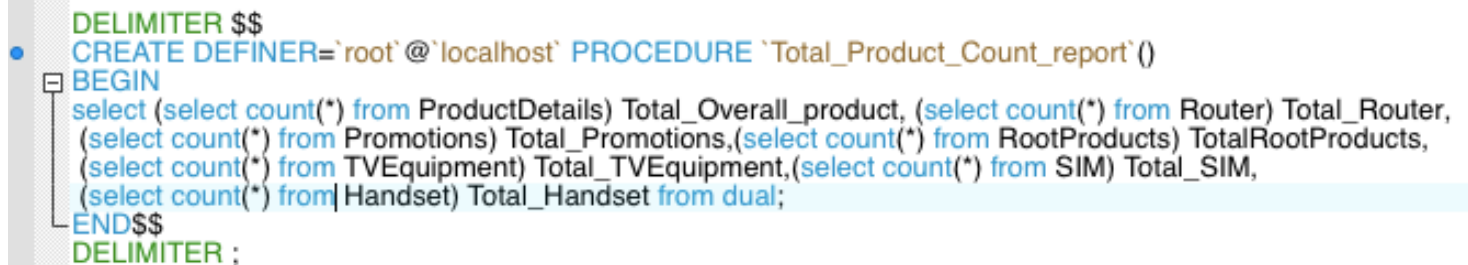
```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `unpaid_bills`()
BEGIN
select * from Customer where Customer_ID IN (select Customer_ID from BillingAccountDetails where Bills='unpaid' );
END$$
DELIMITER ;
```

6. Created procedure for getting report on how much products were created so far using function DUAL instead of UNION
   Query:

   DELIMITER $$
   CREATE DEFINER=`root`@`localhost` PROCEDURE
   `Total_Product_Count_report`()
   BEGIN
   select (select count(*) from ProductDetails) Total_Overall_product, (select count(*) from Router) Total_Router,
    (select count(*) from Promotions) Total_Promotions,(select count(*) from RootProducts) TotalRootProducts,
    (select count(*) from TVEquipment) Total_TVEquipment,(select count(*) from SIM) Total_SIM,
    (select count(*) from Handset) Total_Handset from dual;
   END$$
   DELIMITER ;

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `Total_Product_Count_report`()
BEGIN
  select (select count(*) from ProductDetails) Total_Overall_product, (select count(*) from Router) Total_Router,
  (select count(*) from Promotions) Total_Promotions,(select count(*) from RootProducts) TotalRootProducts,
  (select count(*) from TVEquipment) Total_TVEquipment,(select count(*) from SIM) Total_SIM,
  (select count(*) from| Handset) Total_Handset from dual;
END$$
DELIMITER ;
```

7. Created procedure using update select subquery with using index for the field where EANBarCode is null to be updated.

```
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `Update_EANBarcode_index`()
BEGIN
  Update ProductDetails
  SET Payment = '11230:0:0' where EANBarCode IN (select EANBarCode from ProductDetails where EANBarCode ="");
END$$
DELIMITER ;
```

SECTION 6:

TRIGGER:

Created trigger for ProductDetail table. Once a product is inserted in ProductDetail the same product details goes in Router table

Query:

create trigger RouterProductCreation

after insert on ProductDetails

for each row

insert into Router(ProductNumber,ProductName)

values (NEW.Router_ProductNumber,NEW.ProductName);

```
 7
 8 ●   create trigger RouterProductCreation
 9     after insert on ProductDetails
10     for each row
11     insert into Router(Router_ProductNumber,ProductName)
12     values (NEW.Router_ProductNumber,NEW.ProductName);
13
14
15
16
```

100%	◇	1:14	1 error found	
Action Output	◇			

		Time	Action	
⊗	61	17	from Router where ProductNumber=('200696','200697')	
✓	62	16:22:45	delete from Router where ProductNumber=200696	1
✓	63	16:22:53	delete from Router where ProductNumber=200697	1
✓	64	16:23:51	delete from ProductDetails where Router_ProductNumber=200697	1
✓	65	16:23:58	delete from ProductDetails where Router_ProductNumber=200696	1
✓	66	16:27:52	alter table Router change ProductNumber Router_ProductNumber int	0
✓	67	16:29:23	delete from ProductDetails where Router_ProductNumber=200695	1
✓	68	16:29:36	delete from Router where Router_ProductNumber=200695	1
✓	69	16:29:46	create trigger RouterProductCreation after insert on ProductDetails for each row insert into Router(Router_Produ...	0

```
16
17 ●   select * from Router where Router_ProductNumber='200695';
18 ●   select * from ProductDetails where Router_ProductNumber='200695';
```

100%   44:18   1 error found

Result Grid | Filter Rows: Q Search | Edit: | Export/Import: |

ringAttribute	SIM_ProductNumber	Router_ProductNumber	TVEquipment_ProductNumber	Handset_ProductNumber	RootProducts_ProductNumber	Promotions_ProductNumber	ProductName
0	0	200695	0	0	0	0	Vodafone VOX 3.0 Uk
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

ProductDetails 13
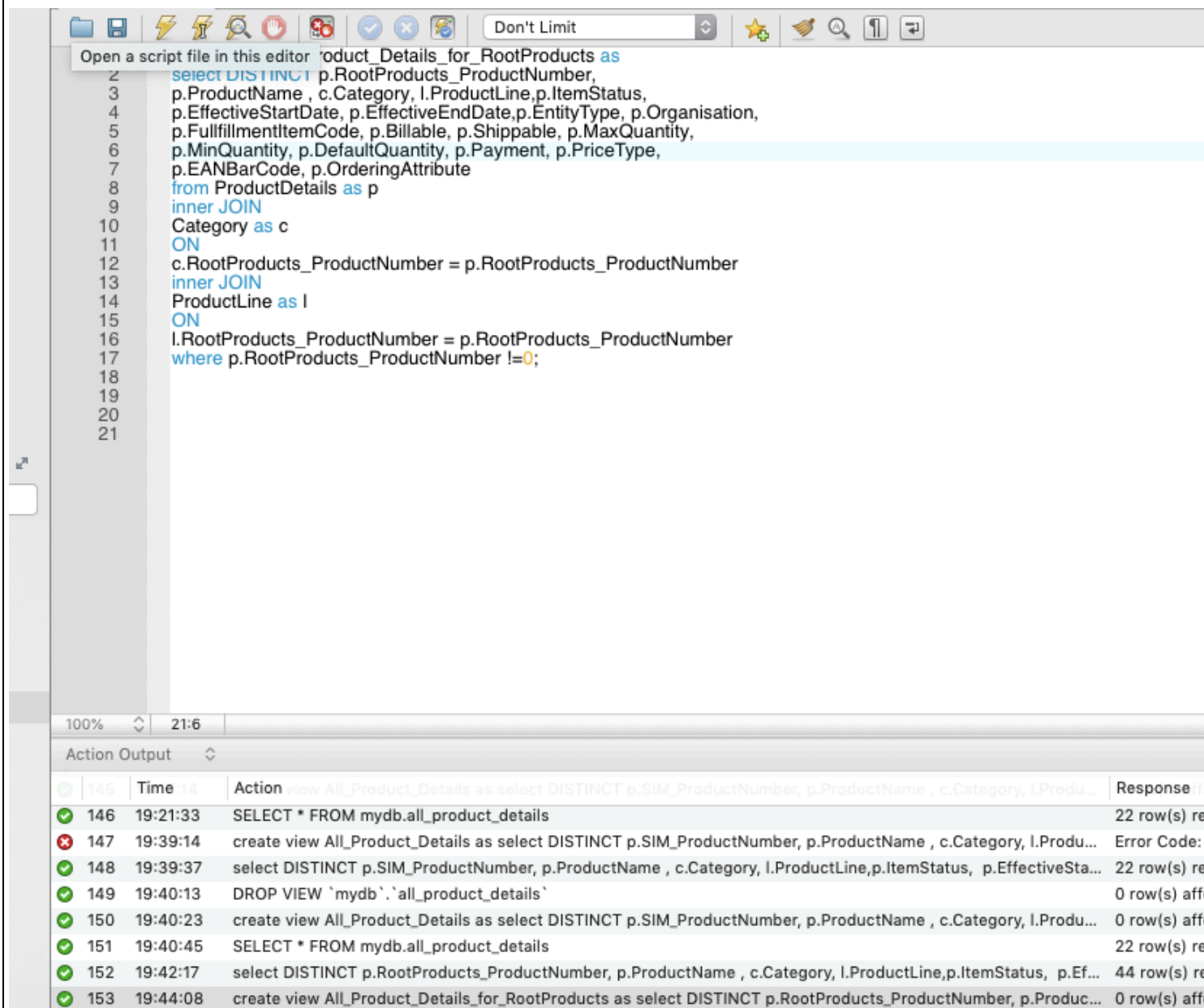
Action Output ↻

		Time	Action	Response	Duration / F
✓	65	16:23:58	delete from ProductDetails where Router_ProductNumber=200696	1 row(s) affected	0.0045 sec
✓	66	16:27:52	alter table Router change ProductNumber Router_ProductNumber int	0 row(s) affected Records: 0 Duplicates: 0 Warnings...	0.029 sec
✓	67	16:29:23	delete from ProductDetails where Router_ProductNumber=200695	1 row(s) affected	0.0014 sec
✓	68	16:29:36	delete from Router where Router_ProductNumber=200695	1 row(s) affected	0.0020 sec
✓	69	16:29:46	create trigger RouterProductCreation after insert on ProductDetails for each row insert into Router(Router_Produ...	0 row(s) affected	0.038 sec
✓	70	16:32:33	INSERT INTO `mydb`.`ProductDetails` VALUES(544,"Active","2017-01-01","NULL","Product","Default Organisatio...	1 row(s) affected	0.0043 sec
✓	71	16:33:58	select * from Router where Router_ProductNumber='200695'	1 row(s) returned	0.0017 sec
✓	72	16:34:13	select * from ProductDetails where Router_ProductNumber='200695'	1 row(s) returned	0.00071 sec

SECTION 7:

VIEWS:

Created 5 views for getting individual overall product details of handset, router, rootproducts, sim, promotions, TVEquipment using ProductDetail, ProductLine, Category, Billing, respective product table


```
                                  roduct_Details_for_RootProducts as
  2        select DISTINCT p.RootProducts_ProductNumber,
  3        p.ProductName , c.Category, l.ProductLine,p.ItemStatus,
  4        p.EffectiveStartDate, p.EffectiveEndDate,p.EntityType, p.Organisation,
  5        p.FullfillmentItemCode, p.Billable, p.Shippable, p.MaxQuantity,
  6        p.MinQuantity, p.DefaultQuantity, p.Payment, p.PriceType,
  7        p.EANBarCode, p.OrderingAttribute
  8        from ProductDetails as p
  9        inner JOIN
 10        Category as c
 11        ON
 12        c.RootProducts_ProductNumber = p.RootProducts_ProductNumber
 13        inner JOIN
 14        ProductLine as l
 15        ON
 16        l.RootProducts_ProductNumber = p.RootProducts_ProductNumber
 17        where p.RootProducts_ProductNumber !=0;
 18
 19
 20
 21
```

100%   21:6

Action Output

		Time	Action		Response
	145		view All_Product_Details as select DISTINCT p.SIM_ProductNumber, p.ProductName , c.Category, l.Produ...		
✓	146	19:21:33	SELECT * FROM mydb.all_product_details		22 row(s) re
✗	147	19:39:14	create view All_Product_Details as select DISTINCT p.SIM_ProductNumber, p.ProductName , c.Category, l.Produ...	Error Code:
✓	148	19:39:37	select DISTINCT p.SIM_ProductNumber, p.ProductName , c.Category, l.ProductLine,p.ItemStatus, p.EffectiveSta...	22 row(s) re
✓	149	19:40:13	DROP VIEW `mydb`.`all_product_details`	0 row(s) aff
✓	150	19:40:23	create view All_Product_Details as select DISTINCT p.SIM_ProductNumber, p.ProductName , c.Category, l.Produ...	0 row(s) aff
✓	151	19:40:45	SELECT * FROM mydb.all_product_details	22 row(s) re
✓	152	19:42:17	select DISTINCT p.RootProducts_ProductNumber, p.ProductName , c.Category, l.ProductLine,p.ItemStatus, p.Ef...	44 row(s) re
✓	153	19:44:08	create view All_Product_Details_for_RootProducts as select DISTINCT p.RootProducts_ProductNumber, p.Produc...	0 row(s) aff

| Query 7 × | ⚡ all_product_details_for_rootproducts |

```
1 •  SELECT * FROM mydb.all_product_details_for_rootproducts;
```

Result Grid | Filter Rows: 🔍 Search | Export: 📥

RootProducts_ProductNumber	ProductName	Category	ProductLine	ItemStatus	EffectiveStartDate	EffectiveEndDate	EntityType	Organis
▶ 104951	Insurance band 1	Service products	Acc Sol	Active	2017-01-01	2015-08-01	Product	VF Red
104952	Insurance band 2	Service products	Acc Sol	Active	2012-10-30	2015-10-02	Product	VF Red
104953	Mobile theft and damage cover 1	Service products	Acc Sol	Active	2012-10-30	2015-10-02	Product	VF Red
104954	Mobile theft and damage cover 2	Service products	Acc Sol	Active	2012-10-30	2015-10-02	Product	VF Red
104955	Port Out	Service products	Acc Sol	Inactive	2012-10-30	2015-10-02	Product	VF Red
104956	Apple Protection Plan	Service products	Acc Sol	Active	2012-10-30	NULL	Product	VF Red
104957	Collect in store	Delivery charges	Acc Sol	Inactive	2012-10-30	2015-01-01	Product	VF Red
104958	Deliver to store	Delivery charges	Acc Sol	Inactive	2017-01-01	NULL	Product	VF Red
104959	Billing Activation	Billing charges	Acc Sol	Active	2017-01-01	NULL	Product	VF Red
104960	Switching Credit	Service products	Acc Sol	Active	2014-06-20	NULL	Product	VF Red
104961	TV Set Up Fee	Service products	Acc Sol	Active	2014-07-28	NULL	Product	VF Red
104962	Repair (Phone) - 32GB	Service products	Misc	Active	2014-07-28	2017-03-20	Product	VF Red
104963	Repair (Phone) - 64GB	Service products	Misc	Active	2015-06-29	NULL	Product	VF Red
104964	Repair (Phone) - 128GB	Service products	Misc	Active	2015-06-29	NULL	Product	VF Red
104965	Premier Theft and Lost Insurance	Service products	Depot use	Active	2015-06-29	NULL	Product	VF Red

all_product_details_for_rootproducts 1

Action Output ⬍

	Time	Action	Response
❌ 147	19:39:14	create view All_Product_Details as select DISTINCT p.SIM_ProductNumber, p.ProductName , c.Category, l.Produ...	Error Code: 1050. Table 'All_Prod
✅ 148	19:39:37	select DISTINCT p.SIM_ProductNumber, p.ProductName , c.Category, l.ProductLine,p.ItemStatus, p.EffectiveSta...	22 row(s) returned
✅ 149	19:40:13	DROP VIEW `mydb`.`all_product_details`	0 row(s) affected
✅ 150	19:40:23	create view All_Product_Details as select DISTINCT p.SIM_ProductNumber, p.ProductName , c.Category, l.Produ...	0 row(s) affected
✅ 151	19:40:45	SELECT * FROM mydb.all_product_details	22 row(s) returned
✅ 152	19:42:17	select DISTINCT p.RootProducts_ProductNumber, p.ProductName , c.Category, l.ProductLine,p.ItemStatus, p.Ef...	44 row(s) returned
✅ 153	19:44:08	create view All_Product_Details_for_RootProducts as select DISTINCT p.RootProducts_ProductNumber, p.Produc...	0 row(s) affected
✅ 154	19:44:26	SELECT * FROM mydb.all_product_details_for_rootproducts	44 row(s) returned

SECTION 8:

PRIVILEGES:

Root has all privileges to select, update, insert, delete from all tables. While, CustomerBillingTeam has the grant to just select all the tables and get information about billing, Customer and products

```
1 •  select * from mysql.user where User='CustomerbillingTeam';
2
3
4   CREATE USER 'CustomerbillingTeam'@'localhost' IDENTIFIED BY 'Billing';
5
6   GRANT SELECT ON mydb.* TO 'CustomerbillingTeam'@'localhost';
7
8   FLUSH PRIVILEGES;
9
```

100%   1:9

Result Grid | Filter Rows: Q Search | Edit: | Export/Import:

Host	User	Select_priv	Insert_priv	Update_priv	Delete_priv	Create_priv	Drop_priv	Reload_priv	Shutdown_priv	Process_priv	F
localhost	CustomerbillingTeam	Y	N	N	N	N	N	N	N	N	N
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

user 4

Action Output

	Time	Action	Response
	1		from mysql.user where User='CustomerbillingTeam'	returned
✔	2	02:13:57	GRANT SELECT ON mydb.* TO 'CustomerbillingTeam'@'localhost'	0 row(s) affected
✔	3	02:14:00	FLUSH PRIVILEGES	0 row(s) affected
✔	4	02:14:03	select * from mysql.user where User='CustomerbillingTeam'	1 row(s) returned
✖	5	02:14:56	Drop user CustomerbillingTeam	Error Code: 1396. Operatio
✔	6	02:15:14	Drop user 'CustomerbillingTeam'@'localhost'	0 row(s) affected
✔	7	02:15:17	select * from mysql.user where User='CustomerbillingTeam'	0 row(s) returned
✔	8	02:15:19	CREATE USER 'CustomerbillingTeam'@'localhost' IDENTIFIED BY 'Billing'	0 row(s) affected
✔	9	02:15:25	GRANT SELECT ON mydb.* TO 'CustomerbillingTeam'@'localhost'	0 row(s) affected
✔	10	02:15:30	FLUSH PRIVILEGES	0 row(s) affected
✔	11	02:15:34	select * from mysql.user where User='CustomerbillingTeam'	1 row(s) returned

SECTION 9:

FUNCTIONS:

1. **ALTER:** Used alter function for modify, updating, deleting the coulmns in various tables
   Query:

   alter table Customer
   drop RetailPrice;

   alter table Router
   change ProductNumber Router_ProductNumber int;

```
13
14  •    alter table Router
15       change ProductNumber Router_ProductNumber int;
```

100%   ⇕   6:15   1 error found

Action Output   ⇕

		Time	Action
✅	59	11:19:35	select * from ProductDetails where RootProducts_ProductNumber='104951'
✅	60	16:22:14	set sql_safe_updates=0
❌	61	16:22:17	delete from Router where ProductNumber=('200696','200697')
✅	62	16:22:45	delete from Router where ProductNumber=200696
✅	63	16:22:53	delete from Router where ProductNumber=200697
✅	64	16:23:51	delete from ProductDetails where Router_ProductNumber=200697
✅	65	16:23:58	delete from ProductDetails where Router_ProductNumber=200696
✅	66	16:27:52	alter table Router change ProductNumber Router_ProductNumber int

2. SET SQL_SAFE_UPDATES=0;

3. DUAL:

```
1
2    DELIMITER $$
3  • CREATE DEFINER=`root`@`localhost` PROCEDURE `Total_Product_Count_report`()
4    BEGIN
5    select (select count(*) from ProductDetails) Total_Overall_product, (select count(*) from Router) Total_Router,
6    (select count(*) from Promotions) Total_Promotions,(select count(*) from RootProducts) TotalRootProducts,
7    (select count(*) from TVEquipment) Total_TVEquipment,(select count(*) from SIM) Total_SIM,
8    (select count(*) from Handset) Total_Handset from dual;
9    END$$
10   DELIMITER ;
11
```

1:1

sult Grid | Filter Rows: Q Search | Export:

tal_Overall_product	Total_Router	Total_Promotions	TotalRootProducts	Total_TVEquipment	Total_SIM	Total_Handset
	7	10	47	2	10	21

```
1  • CALL `mydb`.`Total_Product_Count_report`();
2
```

Don't Limit

100%   1:2

Result Grid | Filter Rows: Q Search | Export:

Total_Overall_product	Total_Router	Total_Promotions	TotalRootProducts	Total_TVEquipment	Total_SIM	Total_Handset
▶ 95	7	10	47	2	10	21

SECTION 10:
APPENDIX: BACKUP

Created Mysql dump file using following command in command line
QUERY:
$ mysqldump -u root -p mydb --single-transaction --quick --lock-tables=false > mydb-
    backup-$(date +%F).sql

BACKUP FILE:

-- MySQL dump 10.13 Distrib 5.7.23-ndb-7.5.11, for macos10.13 (x86_64)
--
-- Host: localhost   Database: mydb
-- --
-- Server version   5.7.23-ndb-7.5.11-cluster-gpl

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT
    */;
/*!40101 SET
    @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION
    */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS,
    UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
    FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
    SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `BillingAccountDetails`
--

DROP TABLE IF EXISTS `BillingAccountDetails`;

```
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `BillingAccountDetails` (
  `BillingID` varchar(255) NOT NULL,
  `ProductNumber` varchar(45) NOT NULL,
  `Bills` varchar(255) DEFAULT NULL,
  `Customer_Customer_ID` int(11) NOT NULL,
  `Customer_ID` int(11) DEFAULT NULL,
  PRIMARY KEY (`BillingID`,`Customer_Customer_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `BillingAccountDetails`
--

LOCK TABLES `BillingAccountDetails` WRITE;
/*!40000 ALTER TABLE `BillingAccountDetails` DISABLE KEYS */;
INSERT INTO `BillingAccountDetails` VALUES ('1-FGHJ','200692','unpaid',1,5003),('1-
    HJKL','102219','unpaid',1,5004),('1-UIOP','86600','paid',1,5002),('2-
    FGHJ','68408','unpaid',2,5003);
/*!40000 ALTER TABLE `BillingAccountDetails` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `Category`
--

DROP TABLE IF EXISTS `Category`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Category` (
  `Category_ID` int(11) NOT NULL,
  `Category` varchar(45) NOT NULL,
  `Catalog` varchar(45) NOT NULL,
  `SIM_ProductNumber` int(11) NOT NULL,
  `Router_ProductNumber` int(11) NOT NULL,
  `TVEquipment_ProductNumber` int(11) NOT NULL,
```

```
 `Handset_ProductNumber` int(11) NOT NULL,
 `Promotions_ProductNumber` int(11) NOT NULL,
 `RootProducts_ProductNumber` int(11) NOT NULL,
 PRIMARY KEY
    (`Category_ID`,`SIM_ProductNumber`,`Router_ProductNumber`,`TVEquipment_Pr
    oductNumber`,`Handset_ProductNumber`,`Promotions_ProductNumber`,`RootProd
    ucts_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `Category`
--

LOCK TABLES `Category` WRITE;
/*!40000 ALTER TABLE `Category` DISABLE KEYS */;
INSERT INTO `Category` VALUES (1,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68400,0,0),(2,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68401,0,0),(3,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68402,0,0),(4,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68403,0,0),(5,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68404,0,0),(6,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68405,0,0),(7,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68406,0,0),(8,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68407,0,0),(9,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68408,0,0),(10,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68409,0,0),(11,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68410,0,0),(12,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68411,0,0),(13,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68412,0,0),(14,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68413,0,0),(15,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68414,0,0),(16,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68415,0,0),(17,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68416,0,0),(18,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68417,0,0),(19,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68418,0,0),(20,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68419,0,0),(21,'Mobile phones','Pay as you go, Pay
    monthly',0,0,0,68420,0,0),(22,'Mobile phones','Pay as you go, Pay
```

monthly',0,0,0,68421,0,0),(23,'Mobile phones','Pay as you go, Pay monthly',0,0,0,68422,0,0),(24,'Mobile phones','Pay as you go, Pay monthly',0,0,0,68423,0,0),(25,'Mobile phones','Pay as you go, Pay monthly',0,0,0,68424,0,0),(26,'Postpay Broadband','Pay monthly',0,0,0,0,102211,0),(27,'Postpay Broadband','Pay monthly',0,0,0,0,102212,0),(28,'Postpay Broadband','Pay monthly',0,0,0,0,102213,0),(29,'Postpay Broadband','Pay monthly',0,0,0,0,102214,0),(30,'Postpay Broadband','Pay monthly',0,0,0,0,102215,0),(31,'Postpay Broadband','Pay monthly',0,0,0,0,102216,0),(32,'Postpay Broadband','Pay monthly',0,0,0,0,102217,0),(33,'Postpay Broadband','Pay monthly',0,0,0,0,102218,0),(34,'Postpay Broadband','Pay monthly',0,0,0,0,102219,0),(35,'Postpay Broadband','Pay monthly',0,0,0,0,102220,0),(36,'Equipment','TV',0,0,86600,0,0,0),(37,'Equipment','TV',0,0,86601,0,0,0),(39,'FixedLine','Enterprise',0,200690,0,0,0,0),(40,'FixedLine','Enterprise',0,200691,0,0,0,0),(41,'FixedLine','Enterprise',0,200692,0,0,0,0),(42,'FixedLine','Enterprise',0,200693,0,0,0,0),(43,'FixedLine','Enterprise',0,200694,0,0,0,0),(44,'FixedLine','Enterprise',0,200695,0,0,0,0),(45,'FixedLine','Enterprise',0,200696,0,0,0,0),(46,'FixedLine','Enterprise',0,200697,0,0,0,0),(51,'SIM Card','Pay as you go, Pay monthly',52000,0,0,0,0,0),(52,'SIM Card','Pay as you go, Pay monthly',52001,0,0,0,0,0),(53,'SIM Card','Pay as you go, Pay monthly',52002,0,0,0,0,0),(54,'SIM Card','Pay as you go, Pay monthly',52003,0,0,0,0,0),(55,'SIM Card','Pay as you go, Pay monthly',52004,0,0,0,0,0),(56,'SIM Card','Pay as you go, Pay monthly',52005,0,0,0,0,0),(57,'SIM Card','Pay as you go, Pay monthly',52006,0,0,0,0,0),(58,'SIM Card','Pay as you go, Pay monthly',52007,0,0,0,0,0),(59,'SIM Card','Pay as you go, Pay monthly',52008,0,0,0,0,0),(60,'SIM Card','Pay as you go, Pay monthly',52009,0,0,0,0,0),(61,'SIM Card','Pay as you go, Pay monthly',52010,0,0,0,0,0),(62,'Service products','Pay as you go, Pay monthly',0,0,0,0,0,104951),(63,'Service products','Pay as you go, Pay monthly',0,0,0,0,0,104952),(64,'Service products','Pay as you go, Pay monthly',0,0,0,0,0,104953),(65,'Service products','Pay as you go, Pay monthly',0,0,0,0,0,104954),(66,'Service products','Pay as you go, Pay monthly',0,0,0,0,0,104955),(67,'Service products','Pay as you go, Pay monthly',0,0,0,0,0,104956),(68,'Delivery charges','Pay as you go, Pay monthly',0,0,0,0,0,104957),(69,'Delivery charges','Pay as you go, Pay monthly',0,0,0,0,0,104958),(70,'Billing charges','Pay as you go, Pay

monthly',0,0,0,0,0,104959),(71,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104960),(72,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104961),(73,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104962),(74,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104963),(75,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104964),(76,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104965),(77,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104966),(78,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104967),(79,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104968),(80,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104969),(81,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104970),(82,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104971),(83,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104972),(84,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104973),(85,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104974),(86,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104975),(87,'Service products','Pay as you go, Pay
monthly',0,0,0,0,0,104976),(88,'Delivery charges','Pay as you go, Pay
monthly',0,0,0,0,0,104977),(89,'Delivery charges','Pay as you go, Pay
monthly',0,0,0,0,0,104978),(90,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104979),(91,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104980),(92,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104981),(93,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104982),(94,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104983),(95,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104984),(96,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104985),(97,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104986),(98,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104987),(99,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104988),(100,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104989),(101,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104990),(102,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104991),(103,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104992),(104,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104993),(105,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104994),(106,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104995),(107,'Accessories','Pay as you go, Pay
monthly',0,0,0,0,0,104996),(108,'Accessories','Pay as you go, Pay

```
      monthly',0,0,0,0,0,104997),(109,'Accessories','Pay as you go, Pay
      monthly',0,0,0,0,0,104998);
/*!40000 ALTER TABLE `Category` ENABLE KEYS */;
UNLOCK TABLES;


--
-- Table structure for table `Customer`
--


DROP TABLE IF EXISTS `Customer`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Customer` (
  `Customer_ID` int(11) NOT NULL,
  `FirstName` varchar(45) NOT NULL,
  `MiddleName` varchar(255) DEFAULT NULL,
  `LastName` varchar(255) DEFAULT NULL,
  `PhoneNumber` varchar(45) NOT NULL,
  `Email` varchar(45) NOT NULL,
  `Address` varchar(45) NOT NULL,
  `SIM_ProductNumber` int(11) NOT NULL,
  `TVEquipment_ProductNumber` int(11) NOT NULL,
  `Router_ProductNumber` int(11) NOT NULL,
  `Handset_ProductNumber` int(11) NOT NULL,
  `Promotions_ProductNumber` int(11) NOT NULL,
  `RootProducts_ProductNumber` int(11) NOT NULL,
  PRIMARY KEY
      (`Customer_ID`,`SIM_ProductNumber`,`TVEquipment_ProductNumber`,`Router_Pr
      oductNumber`,`Handset_ProductNumber`,`Promotions_ProductNumber`,`RootProd
      ucts_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `Customer`
--


LOCK TABLES `Customer` WRITE;
```

```sql
/*!40000 ALTER TABLE `Customer` DISABLE KEYS */;
INSERT INTO `Customer` VALUES
    (5000,'Sayali','Ashok','Bhagat','8573086210','sailee1404@gmail.com','Boston',5200
    0,0,0,68411,0,0),(5002,'Joseph','','Humphery','7276327115','joseph@xyz.com','Calif
    orina',0,86600,0,0,0,0),(5003,'Emily','','Lin','857660371','lin@yahoo.in','NY',0,0,2006
    92,68408,0,0),(5004,'Sanket','Ashok','Bhagat','9881450914','bhagat@gmail.com','P
    une',0,0,0,0,102219,0);
/*!40000 ALTER TABLE `Customer` ENABLE KEYS */;
UNLOCK TABLES;


--
-- Table structure for table `Handset`
--

DROP TABLE IF EXISTS `Handset`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Handset` (
  `Handset_ProductNumber` int(11) NOT NULL,
  `ProductName` varchar(45) NOT NULL,
  `Warranty` varchar(45) DEFAULT NULL,
  `Manufacturer` varchar(45) DEFAULT NULL,
  `Color` varchar(45) DEFAULT NULL,
  `Memory` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`Handset_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `Handset`
--

LOCK TABLES `Handset` WRITE;
/*!40000 ALTER TABLE `Handset` DISABLE KEYS */;
INSERT INTO `Handset` VALUES (68400,'Nokia N900 black','24
    months','Nokia','Black','32GB'),(68401,'Nokia C5 black','24
    months','Nokia','Black','32GB'),(68402,'Samsung Galaxy J5 black','24
    months','Samsung','Black','32GB'),(68403,'Samsung Galaxy S8 midnight black','24
```

months','Samsung','Midnight black','32GB'),(68404,'Apple iPhone 8 64GB silver','12 months','Apple','Silver','64GB'),(68405,'Apple iPhone 8 64GB space grey','12 months','Apple','Space grey','64GB'),(68406,'Apple iPhone 8 64GB gold','12 months','Apple','Gold','64GB'),(68407,'Apple iPhone 8 256GB silver','12 months','Apple','Silver','256GB'),(68408,'Apple iPhone 8 256GB space grey','12 months','Apple','Space grey','256GB'),(68409,'Apple iPhone 8 256GB gold','12 months','Apple','Gold','256GB'),(68410,'Apple iPhone 8 Plus 64GB silver','12 months','Apple','Silver','64GB'),(68411,'Apple iPhone 8 Plus 64GB space grey','12 months','Apple','Space grey','64GB'),(68412,'Apple iPhone 8 Plus 64GB gold','12 months','Apple','Gold','64GB'),(68413,'Apple iPhone 8 Plus 256GB silver','12 months','Apple','Silver','256GB'),(68414,'Apple iPhone 8 Plus 256GB space grey','12 months','Apple','Space grey','256GB'),(68415,'Apple iPhone 8 Plus 256GB gold','12 months','Apple','Gold','256GB'),(68416,'Apple iPhone 8 64GB red','12 months','Apple','Red','64GB'),(68417,'Apple iPhone 8 Plus 64GB red','12 months','Apple','Red','64GB'),(68418,'Google Pixel 3 XL 128GB black','24 months','Google','Black','128GB'),(68419,'Google Pixel 3 XL 128GB white','24 months','Google','White','128GB'),(68420,'Google Pixel 3 XL 128GB pink','24 months','Google','Pink','128GB');
/*!40000 ALTER TABLE `Handset` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `ProductDetails`
--

DROP TABLE IF EXISTS `ProductDetails`;
/*!40101 SET @saved_cs_client   = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `ProductDetails` (
  `ProductDetailNumber` int(11) NOT NULL,
  `ItemStatus` varchar(45) NOT NULL,
  `EffectiveStartDate` varchar(45) NOT NULL,
  `EffectiveEndDate` varchar(45) NOT NULL,
  `EntityType` varchar(45) NOT NULL,
  `Organisation` varchar(45) NOT NULL,
  `FullfillmentItemCode` varchar(45) NOT NULL,
  `Billable` varchar(45) NOT NULL,
  `Shippable` varchar(45) NOT NULL,

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  `MaxQuantity` int(11) NOT NULL,
  `MinQuantity` int(11) NOT NULL,
  `DefaultQuantity` int(11) NOT NULL,
  `Payment` varchar(45) NOT NULL,
  `PriceType` varchar(45) NOT NULL,
  `EANBarCode` varchar(255) DEFAULT NULL,
  `OrderingAttribute` int(11) NOT NULL,
  `SIM_ProductNumber` int(11) NOT NULL,
  `Router_ProductNumber` int(11) NOT NULL,
  `TVEquipment_ProductNumber` int(11) NOT NULL,
  `Handset_ProductNumber` int(11) NOT NULL,
  `RootProducts_ProductNumber` int(11) NOT NULL,
  `Promotions_ProductNumber` int(11) NOT NULL,
  `ProductName` varchar(255) DEFAULT NULL,
  PRIMARY KEY
     (`ProductDetailNumber`,`SIM_ProductNumber`,`Router_ProductNumber`,`TVEquip
     ment_ProductNumber`,`Handset_ProductNumber`,`RootProducts_ProductNumber`
     ,`Promotions_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `ProductDetails`
--

LOCK TABLES `ProductDetails` WRITE;
/*!40000 ALTER TABLE `ProductDetails` DISABLE KEYS */;
INSERT INTO `ProductDetails` VALUES (501,'Active','2012-01-05','NULL','Product','VF
     Red Brand','SIM Card','Yes','Yes',999,0,0,'','One
     Time','660543005476;660543008095;0',195200,52000,0,0,0,0,0,'Standard SIM
     Red'),(502,'Active','2012-05-01','2012-05-01','Product','VF Red Brand','SIM
     Card','Yes','Yes',999,0,0,'','One
     Time','5055015236338;0;0',195400,52001,0,0,0,0,0,'Micro SIM
     Red'),(503,'Active','2012-01-05','NULL','Product','VF Red Brand','SIM
     Card','Yes','Yes',999,0,0,'','One
     Time','660543005476;660543008095;0',195300,52002,0,0,0,0,0,'Micro SIM
     Red'),(504,'Active','2012-10-30','NULL','Product','VF Red Brand','SIM
     Card','Yes','Yes',999,0,0,'','One Time','0;0;0',195500,52003,0,0,0,0,0,'Standard SIM
```

White'),(505,'Inactive','2012-10-30','NULL','Product','VF Red Brand','SIM Card','Yes','Yes',999,0,0,'','One Time','0;0;0',195600,52004,0,0,0,0,0,'Micro SIM White'),(506,'Inactive','2012-10-30','NULL','Product','VF Red Brand','SIM Card','No','Yes',999,0,0,'','One Time','0;0;0',195700,52005,0,0,0,0,0,'iPad Micro Sim White'),(507,'Inactive','2012-10-30','NULL','Product','VF Red Brand','SIM Card','No','Yes',999,0,0,'','One Time','0;0;0',195800,52006,0,0,0,0,0,'Nano SIM White'),(508,'Active','2012-10-30','NULL','Product','VF Red Brand','SIM Card','Yes','Yes',999,0,0,'','One Time','0;0;0',195825,52007,0,0,0,0,0,'NFC Dual SIM'),(509,'Active','2012-10-30','2014-03-04','Product','VF Red Brand','SIM Card','Yes','Yes',999,0,0,'','One Time','0;0;0',195850,52008,0,0,0,0,0,'Micro NFC SIM'),(510,'Active','2012-10-30','NULL','Product','VF Red Brand','SIM Card','Yes','Yes',999,0,0,'','One Time','0;0;0',195875,52009,0,0,0,0,0,'Nano NFC SIM'),(511,'Active','2013-08-28','NULL','Product','VF Red Brand','SIM Card','Yes','Yes',999,0,0,'','One Time','0;0;0',195900,52010,0,0,0,0,0,'Dual Format SIM White'),(512,'Active','2017-01-01','2012-11-06','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','6438158137233;0;0',164050,0,0,0,68400,0,0,'Nokia N900 black'),(513,'Active','2017-01-01','2012-11-06','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','6438158217232;0;0',164050,0,0,0,68401,0,0,'Nokia C5 black'),(515,'Active','2017-04-28','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','0;0;0',164050,0,0,0,68403,0,0,'Samsung Galaxy S8 midnight black'),(516,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198451026;0;0',164050,0,0,0,68404,0,0,'Apple iPhone 8 64GB silver'),(517,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198450661;0;0',164050,0,0,0,68405,0,0,'Apple iPhone 8 64GB space grey'),(518,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198451385;0;0',164050,0,0,0,68406,0,0,'Apple iPhone 8 64GB gold'),(519,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198452528;0;0',164050,0,0,0,68407,0,0,'Apple iPhone 8 256GB silver'),(520,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198452160;0;0',164050,0,0,0,68408,0,0,'Apple iPhone 8 256GB space

grey'),(521,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198452887;0;0',164050,0,0,0,68409,0,0,'Apple iPhone 8 256GB gold'),(522,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198454324;0;0',164050,0,0,0,68410,0,0,'Apple iPhone 8 Plus 64GB silver'),(523,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198453969;0;0',164050,0,0,0,68411,0,0,'Apple iPhone 8 Plus 64GB space grey'),(524,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198454683;0;0',164050,0,0,0,68412,0,0,'Apple iPhone 8 Plus 64GB gold'),(525,'Active','2017-01-01','NULL','Product','VF Red Brand','Handset','Yes','Yes',999,0,0,'','One Time','190198455406;0;0',164050,0,0,0,68413,0,0,'Apple iPhone 8 Plus 256GB silver'),(526,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,'','One Time','190198455048;0;0',164050,0,0,0,68414,0,0,'Apple iPhone 8 Plus 256GB space grey'),(527,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,'','One Time','190198455765;0;0',164050,0,0,0,68415,0,0,'Apple iPhone 8 Plus 256GB gold'),(528,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,'','One Time','190198744142;0;0',164050,0,0,0,68416,0,0,'Apple iPhone 8 64GB red'),(529,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,'','One Time','190198746030;0;0',164050,0,0,0,68417,0,0,'Apple iPhone 8 Plus 64GB red'),(530,'Inactive','2018-09-03','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,'','One Time','',164050,0,0,0,68418,0,0,'Google Pixel 3 XL 128GB black'),(531,'Inactive','2018-09-03','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,'','One Time','',164050,0,0,0,68419,0,0,'Google Pixel 3 XL 128GB white'),(532,'Inactive','2018-09-03','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,'','One Time','',164050,0,0,0,68420,0,0,'Google Pixel 3 XL 128GB pink'),(534,'Inactive','2018-09-03','NULL','Product','VF Red Brand','Handset','No','Yes',999,0,0,' 0','One Time',' ',164050,0,0,0,68422,0,0,'One Plus 6T Colour 1 PAYG'),(537,'Inactive','2017-01-01','2017-03-20','Product','Default Organisation','TV Equipment','Yes','Yes',1,0,0,'Postpaid','One Time','',92200,0,0,86600,0,0,0,'Vodafone Set Top Box

Activation'),(539,'Inactive','2017-01-01','NULL','Product','Default Organisation','Fixed Broadband Equipment','No','Yes',1,0,0,'Postpaid','One Time','5055015287552;0;0',82090,0,200690,0,0,0,0,'Vodafone Broadband router white'),(540,'Inactive','2017-01-01','NULL','Product','Default Organisation','Fixed Broadband Equipment','No','Yes',1,0,0,'Postpaid','One Time','',82090,0,200691,0,0,0,0,'Replacement router white'),(541,'Inactive','2017-01-01','NULL','Product','Default Organisation','Fixed Broadband Equipment','No','Yes',1,0,0,'Postpaid','One Time','6901443076567;0;0',82090,0,200692,0,0,0,0,'Vodafone Broadband router'),(542,'Active','2017-01-01','NULL','Product','Default Organisation','Fixed Broadband Equipment','No','Yes',1,0,0,'Postpaid','One Time','',82090,0,200693,0,0,0,0,'Replacement router'),(543,'Active','2017-01-01','NULL','Product','Default Organisation','Fixed Broadband Equipment','Yes','Yes',1,0,0,'Postpaid','One Time','',82090,0,200694,0,0,0,0,'Router'),(544,'Active','2017-01-01','NULL','Product','Default Organisation','Fixed Broadband Equipment','Yes','Yes',1,0,0,'Postpaid','One Time','0;0;0',82090,0,200695,0,0,0,0,'Vodafone VOX 3.0 Uk'),(547,'Active','2014-09-01','NULL','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Prepaid','Recurring','',0,0,0,0,0,0,102211,'SIM package'),(548,'Active','2014-09-01','NULL','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Prepaid','Recurring','',0,0,0,0,0,0,102212,'Phone and SIM package'),(549,'Active','2014-09-01','2013-06-12','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Prepaid','Recurring','',0,0,0,0,0,0,102213,'Mobile broadband SIM and device package'),(550,'Active','2013-06-12','NULL','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Prepaid','Recurring','',0,0,0,0,0,0,102214,'Dongle Package'),(551,'Active','2013-06-12','2018-09-04','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Prepaid','Recurring','',0,0,0,0,0,0,102215,'iPad SIMO Package'),(552,'Active','2013-06-12','NULL','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Prepaid','Recurring','',0,0,0,0,0,0,102216,'Mobile Wi-Fi Package'),(553,'Active','2014-09-01','NULL','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Postpaid','Recurring','',0,0,0,0,0,0,102217,'24mth Laptop 3072MB'),(554,'Active','2014-09-01','NULL','Promotion','VF Red Brand','Promotion','Yes','No',1,1,1,'Postpaid','Recurring','',0,0,0,0,0,0,102218,'24mth Laptop 5120MB'),(555,'Inactive','2014-09-01','NULL','Promotion','VF Red Brand','Promotion','No','No',1,1,1,'Postpaid','Recurring','',0,0,0,0,0,0,102219,'1month Dongle 500MB'),(557,'Active','2017-01-01','2015-08-01','Product','VF Red

Brand','Delivery Charge','No','No',1,0,0,'','One Time','',220000,0,0,0,0,104951,0,'Insurance band 1'),(558,'Active','2012-10-30','2015-10-02','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',231500,0,0,0,0,104952,0,'Insurance band 2'),(559,'Active','2012-10-30','2015-10-02','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',231600,0,0,0,0,104953,0,'Mobile theft and damage cover 1'),(560,'Active','2012-10-30','2015-10-02','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',231900,0,0,0,0,104954,0,'Mobile theft and damage cover 2'),(561,'Inactive','2012-10-30','2015-10-02','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',232000,0,0,0,0,104955,0,'Port Out'),(562,'Active','2012-10-30','NULL','Product','VF Red Brand','Port Out','No','No',1,0,0,'','One Time','',218250,0,0,0,0,104956,0,'Apple Protection Plan'),(563,'Inactive','2012-10-30','2015-01-01','Product','VF Red Brand','Warranty','No','No',1,0,0,'Postpaid','One Time','',233500,0,0,0,0,104957,0,'Collect in store'),(564,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Delivery Charge','No','No',1,0,0,'','One Time','',219900,0,0,0,0,104958,0,'Deliver to store'),(565,'Active','2017-01-01','NULL','Product','VF Red Brand','Delivery Charge','No','No',1,0,0,'','One Time','',219950,0,0,0,0,104959,0,'Billing Activation'),(566,'Active','2014-06-20','NULL','Product','VF Red Brand','Billing Activation','Yes','No',1,0,0,'','One Time','',82050,0,0,0,0,104960,0,'Switching Credit'),(567,'Active','2014-07-28','NULL','Product','VF Red Brand','Fee','No','No',1,0,0,'Postpaid','One Time','',0,0,0,0,0,104961,0,'TV Set Up Fee'),(568,'Active','2014-07-28','2017-03-20','Product','VF Red Brand','Fee','No','No',1,0,0,'Postpaid','One Time','',92202,0,0,0,0,104962,0,'Repair (Phone) - 32GB'),(569,'Active','2015-06-29','NULL','Product','VF Red Brand','Repair Products','No','No',1,0,0,'','One Time','',194610,0,0,0,0,104963,0,'Repair (Phone) - 64GB'),(570,'Active','2015-06-29','NULL','Product','VF Red Brand','Repair Products','No','No',1,0,0,'','One Time','',194620,0,0,0,0,104964,0,'Repair (Phone) - 128GB'),(571,'Active','2015-06-29','NULL','Product','VF Red Brand','Repair Products','No','No',1,0,0,'','One Time','',194630,0,0,0,0,104965,0,'Premier Theft and Lost Insurance'),(572,'Active','2015-10-01','2016-01-07','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',233365,0,0,0,0,104966,0,'Lync Online'),(573,'Active','2015-10-02','2016-11-29','Product','VF Red Brand','SAAS','Yes','No',1,0,0,'Postpaid','Recurring','',51220,0,0,0,0,104967,0,'Microsoft Office'),(574,'Active','2015-10-02','2016-11-29','Product','VF Red

Brand','SAAS','Yes','No',1,0,0,'Postpaid','Recurring','',51320,0,0,0,0,104968,0,'Consultancy fee'),(575,'Active','2015-10-02','2016-11-29','Product','VF Red Brand','One Time Charge','No','No',1,0,0,'Postpaid','One Time','',51980,0,0,0,0,104969,0,'Business Damage Insurance'),(576,'Active','2016-07-01','NULL','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',233370,0,0,0,0,104970,0,'Theft + Loss insurance'),(577,'Inactive','2016-06-26','NULL','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',233374,0,0,0,0,104971,0,'Damaged or Locked Return Charge 32GB'),(578,'Inactive','2016-09-25','NULL','Product','VF Red Brand','Credit','Yes','No',1,0,0,'','One Time','',218660,0,0,0,0,104972,0,'Damaged or Locked Return Charge 64GB'),(579,'Inactive','2016-09-25','NULL','Product','VF Red Brand','Credit','Yes','No',1,0,0,'','One Time','',218670,0,0,0,0,104973,0,'Damaged or Locked Return Charge 128GB'),(580,'Active','2016-09-25','NULL','Product','VF Red Brand','Credit','Yes','No',1,0,0,'','One Time','',218680,0,0,0,0,104974,0,'Business Support'),(581,'Active','2017-01-01','NULL','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',233366,0,0,0,0,104975,0,'Device Support'),(582,'Active','2017-01-01','NULL','Product','VF Red Brand','Insurance','Yes','No',1,0,0,'Postpaid','Recurring','',233367,0,0,0,0,104976,0,'Out Of Warranty Repair Charge'),(583,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Credit','Yes','No',1,0,0,'','One Time','',218656,0,0,0,0,104977,0,'Damaged Return Charge - In Store'),(584,'Inactive','2018-10-24','NULL','Product','VF Red Brand','Fee','No','No',1,0,0,'','One Time','',194600,0,0,0,0,104978,0,'Damaged Return Charge - Returns Centre'),(585,'Active','2018-10-24','NULL','Product','VF Red Brand','Credit','Yes','No',1,0,0,'','One Time','',194600,0,0,0,0,104979,0,'BX NOKIA CHARGER MICRO USB'),(586,'Active','2017-01-01','2013-09-30','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','0;0;0',196150,0,0,0,0,104980,0,'BX SAM BATTERY EB504465VU'),(587,'Active','2017-01-01','2013-09-30','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','0;0;0',196150,0,0,0,0,104981,0,'BX APPLE CHARGER USB PLUG'),(588,'Active','2017-01-01','2013-09-30','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','0;0;0',196150,0,0,0,0,104982,0,'Beats Solo HD Headphones'),(589,'Active','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','50644651533;0;0',196150,0,0,0,0,104983,0,'Apple i5 Screen

Protector'),(590,'Active','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','685387364336;0;0',196150,0,0,0,0,104984,0,'JBL Slate Over Ear Headphones'),(591,'Active','2014-10-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','4968929038022;0;0',196150,0,0,0,0,104985,0,'Jabra Active Heaphones'),(592,'Active','2015-11-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','5707055023897;0;0',196150,0,0,0,0,104986,0,'Apple Pencil'),(593,'Active','2015-11-17','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','888462313711;0;0',196150,0,0,0,0,104987,0,'JBL Headphones T450 black'),(594,'Active','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','6925281918957;0;0',196150,0,0,0,0,104988,0,'JBL Headphones T450 white'),(595,'Active','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','6925281918964;0;0',196150,0,0,0,0,104989,0,'Apple Airpods'),(596,'Active','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','888462858519;0;0',196150,0,0,0,0,104990,0,'Sony EX110AP headphones black'),(597,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','4905524929225;0;0',196150,0,0,0,0,104991,0,'Sony ZX220BTB Wireless headphones'),(598,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','4548736036208;0;0',196150,0,0,0,0,104992,0,'Apple EarPods Lightning Connect'),(599,'Inactive','2017-01-01','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','190198001733;0;0',196150,0,0,0,0,104993,0,'Google Wifi'),(600,'Active','2017-06-10','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','0;0;0',196150,0,0,0,0,104994,0,'Google Chromecast'),(601,'Active','2017-06-10','NULL','Product','VF Red Brand','Accessories','No','Yes',999,0,0,'','One Time','0;0;0',196150,0,0,0,0,104995,0,'Google Home');
/*!40000 ALTER TABLE `ProductDetails` ENABLE KEYS */;
UNLOCK TABLES;
/*!50003 SET @saved_cs_client   = @@character_set_client */ ;

```
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8 */ ;
/*!50003 SET character_set_results = utf8 */ ;
/*!50003 SET collation_connection  = utf8_general_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              =
    'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_
    ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,N
    O_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 trigger
    RootProductsProductCreation
after insert on ProductDetails
for each row
insert into RootProducts(RootProducts_ProductNumber,ProductName)
values (NEW.RootProducts_ProductNumber,NEW.ProductName) */;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection  = @saved_col_connection */ ;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8 */ ;
/*!50003 SET character_set_results = utf8 */ ;
/*!50003 SET collation_connection  = utf8_general_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              =
    'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_
    ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,N
    O_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 trigger
    TVEquipmentProductCreation
after insert on ProductDetails
for each row
```

```
insert into TVEquipment(TVEquipment_ProductNumber,ProductName)
values (NEW.TVEquipment_ProductNumber,NEW.ProductName) */;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection  = @saved_col_connection */ ;
/*!50003 SET @saved_cs_client     = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8 */ ;
/*!50003 SET character_set_results = utf8 */ ;
/*!50003 SET collation_connection  = utf8_general_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode             =
    'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_
    ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,N
    O_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 trigger
    RouterProductCreation
after insert on ProductDetails
for each row
insert into Router(Router_ProductNumber,ProductName)
values (NEW.Router_ProductNumber,NEW.ProductName) */;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection  = @saved_col_connection */ ;


--
-- Table structure for table `ProductLine`
--

DROP TABLE IF EXISTS `ProductLine`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
```

```
CREATE TABLE `ProductLine` (
  `ProductLine_ID` int(11) NOT NULL,
  `ProductLine` varchar(45) NOT NULL,
  `System` varchar(45) NOT NULL,
  `SIM_ProductNumber` int(11) NOT NULL,
  `Router_ProductNumber` int(11) NOT NULL,
  `TVEquipment_ProductNumber` int(11) NOT NULL,
  `Handset_ProductNumber` int(11) NOT NULL,
  `Promotions_ProductNumber` int(11) NOT NULL,
  `RootProducts_ProductNumber` int(11) NOT NULL,
  PRIMARY KEY
    (`ProductLine_ID`,`SIM_ProductNumber`,`Router_ProductNumber`,`TVEquipment_
    ProductNumber`,`Handset_ProductNumber`,`Promotions_ProductNumber`,`RootPr
    oducts_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `ProductLine`
--

LOCK TABLES `ProductLine` WRITE;
/*!40000 ALTER TABLE `ProductLine` DISABLE KEYS */;
INSERT INTO `ProductLine` VALUES (1501,'SIM Card,SIM
    Hide','CRM',52000,0,0,0,0,0),(1502,'SIM Card,SIM
    Hide','CRM',52001,0,0,0,0,0),(1503,'SIM Card,SIM
    Hide','CRM',52002,0,0,0,0,0),(1504,'SIM Card,SIM
    Hide','CRM',52003,0,0,0,0,0),(1505,'SIM Card,SIM
    Hide','CRM',52004,0,0,0,0,0),(1506,'SIM Card','CRM',52005,0,0,0,0,0),(1507,'SIM
    Card','CRM',52006,0,0,0,0,0),(1508,'SIM Card','CRM',52007,0,0,0,0,0),(1509,'SIM
    Card','CRM',52008,0,0,0,0,0),(1510,'SIM Card','CRM',52009,0,0,0,0,0),(1511,'SIM
    Card','CRM',52010,0,0,0,0,0),(1512,'Acc
    Sol','CRM',52000,200690,86600,68400,0,104951),(1513,'Acc
    Sol','CRM',52001,200691,86601,68401,0,104952),(1514,'Acc
    Sol','CRM',52002,200692,0,68402,0,104953),(1515,'Acc
    Sol','CRM',52003,200693,0,68403,0,104954),(1516,'Acc
    Sol','CRM',52004,200694,0,68404,0,104955),(1517,'Acc
    Sol','CRM',52005,200695,0,68405,0,104956),(1518,'Acc
```

Sol','CRM',52006,200696,0,68406,0,104957),(1519,'Acc
Sol','CRM',52007,200697,0,68407,0,104958),(1520,'Acc
Sol','CRM',52008,0,0,68408,0,104959),(1521,'Acc
Sol','CRM',52009,0,0,68409,0,104960),(1522,'Acc
Sol','CRM',52010,0,0,68410,0,104961),(1523,'Acc Sol;Insurance Band 1;Postpay
Handsets','CRM',0,0,0,68411,0,0),(1524,'Acc Sol;Insurance Band 1;Postpay
Handsets','CRM',0,0,0,68412,0,0),(1525,'Acc Sol;Insurance Band 1;Postpay
Handsets','CRM',0,0,0,68413,0,0),(1526,'Acc Sol;Insurance Band 1;Postpay
Handsets','CRM',0,0,0,68414,0,0),(1527,'Acc Sol;Insurance Band 1;Postpay
Handsets','CRM',0,0,0,68415,0,0),(1528,'Acc Sol;Insurance Band 1;Postpay
Handsets','CRM',0,0,0,68416,0,0),(1529,'Acc Sol;Insurance Band 1;Postpay
Handsets','CRM',0,0,0,68417,0,0),(1530,'Acc Sol;Insurance Band 2;Postpay
Handsets','CRM',0,0,0,68418,0,0),(1531,'Acc Sol;Insurance Band 2;Postpay
Handsets','CRM',0,0,0,68419,0,0),(1532,'Acc Sol;Insurance Band 2;Postpay
Handsets','CRM',0,0,0,68420,0,0),(1533,'Acc Sol;Insurance Band 2;Postpay
Handsets','CRM',0,0,0,68421,0,0),(1534,'Acc Sol;Insurance Band 2;Postpay
Handsets','CRM',0,0,0,68422,0,0),(1535,'Acc Sol;Insurance Band 2;Postpay
Handsets','',0,0,0,68423,0,0),(1536,'Acc Sol;Insurance Band 2;Postpay
Handsets','',0,0,0,68424,0,0),(1539,'Misc','',0,200690,0,0,0,104962),(1540,'Misc','',0
,200691,0,0,0,104963),(1541,'Misc','',0,200692,0,0,0,104964),(1542,'Misc;Router
Plus','',0,200693,0,0,0,0),(1543,'Misc;Router
Plus','',0,200694,0,0,0,0),(1544,'Misc;Router
Plus','',0,200695,0,0,0,0),(1545,'Misc;Router
Plus','',0,200696,0,0,0,0),(1546,'Misc;Router Plus','',0,200697,0,0,0,0),(1547,'Bulk
Only','',0,0,0,0,102211,0),(1548,'Bulk Only','',0,0,0,0,102212,0),(1549,'Prepay
Broadband','',0,0,0,0,102213,0),(1550,'Prepay
Broadband','',0,0,0,0,102214,0),(1551,'Prepay
Broadband','',0,0,0,0,102215,0),(1552,'Prepay
Broadband','',0,0,0,0,102216,0),(1553,'Prepay
Broadband','',0,0,0,0,102217,0),(1554,'Tarrif
Migration','',0,0,0,0,102218,0),(1555,'Tarrif
Migration','',0,0,0,0,102219,0),(1556,'Tarrif
Migration','',0,0,0,0,102220,0),(1571,'Donot use Expired Insurance Migration
Only','',0,0,0,0,0,104965),(1573,'Enterprise Product;Account
Level','CRM',0,0,0,0,0,104967),(1574,'Enterprise Product Account
Level','CRM',0,0,0,0,0,104968),(1575,'Business
Insurance;Insurance','CRM',0,0,0,0,0,104969),(1576,'ETR1a
Insurance;Insurance','CRM',0,0,0,0,0,104970),(1577,'Acc Sol;Admin UTL

```
        Retail;Misc','CRM',0,0,0,0,0,104971),(1578,'Acc Sol;Admin UTL
        Retail;Misc','CRM',0,0,0,0,0,104972),(1579,'Acc Sol;Admin UTL
        Retail;Misc','CRM',0,0,0,0,0,104973),(1580,'Insurance','CRM',0,0,0,0,0,104974),(15
        81,'Insurance','CRM',0,0,0,0,0,104975),(1582,'Misc','CRM',0,0,0,0,0,104976),(1583,
        'Acc
        Sol;Misc','CRM',0,0,0,0,0,104977),(1584,'Misc','CRM',0,0,0,0,0,104978),(1585,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104979),(1586,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104980),(1587,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104981),(1588,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104982),(1589,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104983),(1590,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104984),(1591,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104985),(1592,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104986),(1593,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104987),(1594,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104988),(1595,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104989),(1596,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104990),(1597,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104991),(1598,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104992),(1599,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104993),(1600,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104994),(1601,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104995),(1602,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104996),(1603,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104997),(1604,'Acc
        Sol;Accessories','CRM',0,0,0,0,0,104998);
/*!40000 ALTER TABLE `ProductLine` ENABLE KEYS */;
UNLOCK TABLES;


--
-- Table structure for table `Promotions`
--

DROP TABLE IF EXISTS `Promotions`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Promotions` (
  `Promotions_ProductNumber` int(11) NOT NULL,
```

```
  `ProductName` varchar(45) NOT NULL,
  `RecurringCharge` varchar(45) NOT NULL,
  `ChargeCreditType` varchar(45) DEFAULT NULL,
  `Plan` varchar(45) DEFAULT NULL,
  `Penalty` varchar(45) DEFAULT NULL,
  `PrimaryProduct` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`Promotions_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `Promotions`
--


LOCK TABLES `Promotions` WRITE;
/*!40000 ALTER TABLE `Promotions` DISABLE KEYS */;
INSERT INTO `Promotions` VALUES (102211,'SIM package','0','Penalty','18month
    linear','0','Mobile phone service'),(102212,'Phone and SIM
    package','0','Penalty','18month linear','0','Mobile phone service'),(102213,'Mobile
    broadband SIM and device package','0','Penalty','18month linear','0','Mobile
    broadband service'),(102214,'Dongle Package','0','Penalty','18month
    linear','0','Mobile broadband service'),(102215,'iPad SIMO
    Package','0','Penalty','12month linear','0','Mobile broadband
    service'),(102216,'Mobile Wi-Fi Package','0','Penalty','12month linear','0','Mobile
    broadband service'),(102217,'24mth Laptop
    3072MB','35.7299999999999','Penalty','24month linear','714.6','Mobile broadband
    service'),(102218,'24mth Laptop 5120MB','40.84','Penalty','24month
    linear','816.8','Mobile broadband service'),(102219,'1month Dongle
    500MB','3.06','Penalty','1month linear','2.55','Mobile broadband
    service'),(102220,'1mth Tablet SIMO 1GB','9.99','Penalty','1month
    linear','8.33','Mobile broadband service');
/*!40000 ALTER TABLE `Promotions` ENABLE KEYS */;
UNLOCK TABLES;


--
-- Table structure for table `RootProducts`
--
```

```
DROP TABLE IF EXISTS `RootProducts`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `RootProducts` (
  `RootProducts_ProductNumber` int(11) NOT NULL,
  `ProductName` varchar(45) NOT NULL,
  PRIMARY KEY (`RootProducts_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `RootProducts`
--

LOCK TABLES `RootProducts` WRITE;
/*!40000 ALTER TABLE `RootProducts` DISABLE KEYS */;
INSERT INTO `RootProducts` VALUES (0,'Vodafone VOX 3.0 Uk'),(1,'Vodafone
    Broadband Router'),(3,'Samsung Galaxy J5 black'),(104951,'Insurance band
    1'),(104952,'Insurance band 2'),(104953,'Mobile theft and damage cover
    1'),(104954,'Mobile theft and damage cover 2'),(104955,'Port Out'),(104956,'Apple
    Protection Plan'),(104957,'Collect in store'),(104958,'Deliver to
    store'),(104959,'Billing Activation'),(104960,'Switching Credit'),(104961,'TV Set Up
    Fee'),(104962,'Repair (Phone) - 32GB'),(104963,'Repair (Phone) -
    64GB'),(104964,'Repair (Phone) - 128GB'),(104965,'Premier Theft and Lost
    Insurance'),(104966,'Lync Online'),(104967,'Microsoft Office'),(104968,'Consultancy
    fee'),(104969,'Business Damage Insurance'),(104970,'Theft + Loss
    insurance'),(104971,'Damaged or Locked Return Charge
    32GB'),(104972,'Damaged or Locked Return Charge 64GB'),(104973,'Damaged or
    Locked Return Charge 128GB'),(104974,'Business Support'),(104975,'Device
    Support'),(104976,'Out Of Warranty Repair Charge'),(104977,'Damaged Return
    Charge - In Store'),(104978,'Damaged Return Charge - Returns
    Centre'),(104979,'BX NOKIA CHARGER MICRO USB'),(104980,'BX SAM
    BATTERY EB504465VU'),(104981,'BX APPLE CHARGER USB
    PLUG'),(104982,'Beats Solo HD Headphones'),(104983,'Apple i5 Screen
    Protector'),(104984,'JBL Slate Over Ear Headphones'),(104985,'Jabra Active
    Heaphones'),(104986,'Apple Pencil'),(104987,'JBL Headphones T450
    black'),(104988,'JBL Headphones T450 white'),(104989,'Apple
    Airpods'),(104990,'Sony EX110AP headphones black'),(104991,'Sony ZX220BTB
```

```
      Wireless headphones'),(104992,'Apple EarPods Lightning
      Connect'),(104993,'Google Wifi'),(104994,'Google Chromecast'),(104995,'Google
      Home');
/*!40000 ALTER TABLE `RootProducts` ENABLE KEYS */;
UNLOCK TABLES;


--
-- Table structure for table `Router`
--

DROP TABLE IF EXISTS `Router`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Router` (
  `Router_ProductNumber` int(11) NOT NULL,
  `ProductName` varchar(45) NOT NULL,
  PRIMARY KEY (`Router_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `Router`
--

LOCK TABLES `Router` WRITE;
/*!40000 ALTER TABLE `Router` DISABLE KEYS */;
INSERT INTO `Router` VALUES (3,'Samsung Galaxy J5 black'),(200690,'Vodafone
      Broadband router white'),(200691,'Replacement router white'),(200692,'Vodafone
      Broadband router'),(200693,'Replacement
      router'),(200694,'Router'),(200695,'Vodafone VOX 3.0 Uk'),(200696,'Vodafone
      Broadband Router');
/*!40000 ALTER TABLE `Router` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `SIM`
--
```

```
DROP TABLE IF EXISTS `SIM`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `SIM` (
  `SIM_ProductNumber` int(11) NOT NULL,
  `ProductName` varchar(45) NOT NULL,
  `Type` varchar(45) NOT NULL,
  PRIMARY KEY (`SIM_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `SIM`
--

LOCK TABLES `SIM` WRITE;
/*!40000 ALTER TABLE `SIM` DISABLE KEYS */;
INSERT INTO `SIM` VALUES (52000,'Standard SIM Red','Standard'),(52002,'Micro
    SIM Red','Micro'),(52003,'Standard SIM White','Standard'),(52004,'Micro SIM
    White','Micro'),(52005,'iPad Micro Sim White','Micro'),(52006,'Nano SIM
    White','Nano'),(52007,'NFC Dual SIM','NFC'),(52008,'Micro NFC
    SIM','Micro'),(52009,'Nano NFC SIM','Nano'),(52010,'Dual Format SIM
    White','Dual');
/*!40000 ALTER TABLE `SIM` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `TVEquipment`
--

DROP TABLE IF EXISTS `TVEquipment`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `TVEquipment` (
  `TVEquipment_ProductNumber` int(11) NOT NULL,
  `ProductName` varchar(45) NOT NULL,
  PRIMARY KEY (`TVEquipment_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `TVEquipment`
--


LOCK TABLES `TVEquipment` WRITE;
/*!40000 ALTER TABLE `TVEquipment` DISABLE KEYS */;
INSERT INTO `TVEquipment` VALUES (1,'Vodafone Broadband Router'),(3,'Samsung
    Galaxy J5 black'),(86600,'Vodafone Set Top Box Activation');
/*!40000 ALTER TABLE `TVEquipment` ENABLE KEYS */;
UNLOCK TABLES;


--
-- Temporary table structure for view `all_product_details_for_handset`
--


DROP TABLE IF EXISTS `all_product_details_for_handset`;
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_handset`*/;
SET @saved_cs_client     = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE VIEW `all_product_details_for_handset` AS SELECT
 1 AS `Handset_ProductNumber`,
 1 AS `ProductName`,
 1 AS `Manufacturer`,
 1 AS `Warranty`,
 1 AS `Memory`,
 1 AS `Color`,
 1 AS `Category`,
 1 AS `ProductLine`,
 1 AS `ItemStatus`,
 1 AS `EffectiveStartDate`,
 1 AS `EffectiveEndDate`,
 1 AS `EntityType`,
 1 AS `Organisation`,
 1 AS `FullfillmentItemCode`,
 1 AS `Billable`,
 1 AS `Shippable`,
```

```
 1 AS `MaxQuantity`,
 1 AS `MinQuantity`,
 1 AS `DefaultQuantity`,
 1 AS `Payment`,
 1 AS `PriceType`,
 1 AS `EANBarCode`,
 1 AS `OrderingAttribute`*/;
SET character_set_client = @saved_cs_client;


--
-- Temporary table structure for view `all_product_details_for_promotion`
--

DROP TABLE IF EXISTS `all_product_details_for_promotion`;
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_promotion`*/;
SET @saved_cs_client     = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE VIEW `all_product_details_for_promotion` AS SELECT
 1 AS `Promotions_ProductNumber`,
 1 AS `ProductName`,
 1 AS `PrimaryProduct`,
 1 AS `Plan`,
 1 AS `RecurringCharge`,
 1 AS `Penalty`,
 1 AS `ChargeCreditType`,
 1 AS `Category`,
 1 AS `ProductLine`,
 1 AS `ItemStatus`,
 1 AS `EffectiveStartDate`,
 1 AS `EffectiveEndDate`,
 1 AS `EntityType`,
 1 AS `Organisation`,
 1 AS `FullfillmentItemCode`,
 1 AS `Billable`,
 1 AS `Shippable`,
 1 AS `MaxQuantity`,
 1 AS `MinQuantity`,
 1 AS `DefaultQuantity`,
```

```
 1 AS `Payment`,
 1 AS `PriceType`,
 1 AS `EANBarCode`,
 1 AS `OrderingAttribute`*/;
SET character_set_client = @saved_cs_client;


--
-- Temporary table structure for view `all_product_details_for_rootproducts`
--

DROP TABLE IF EXISTS `all_product_details_for_rootproducts`;
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_rootproducts`*/;
SET @saved_cs_client     = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE VIEW `all_product_details_for_rootproducts` AS SELECT
 1 AS `RootProducts_ProductNumber`,
 1 AS `ProductName`,
 1 AS `Category`,
 1 AS `ProductLine`,
 1 AS `ItemStatus`,
 1 AS `EffectiveStartDate`,
 1 AS `EffectiveEndDate`,
 1 AS `EntityType`,
 1 AS `Organisation`,
 1 AS `FullfillmentItemCode`,
 1 AS `Billable`,
 1 AS `Shippable`,
 1 AS `MaxQuantity`,
 1 AS `MinQuantity`,
 1 AS `DefaultQuantity`,
 1 AS `Payment`,
 1 AS `PriceType`,
 1 AS `EANBarCode`,
 1 AS `OrderingAttribute`*/;
SET character_set_client = @saved_cs_client;


--
-- Temporary table structure for view `all_product_details_for_router`
```

```
--

DROP TABLE IF EXISTS `all_product_details_for_router`;
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_router`*/;
SET @saved_cs_client     = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE VIEW `all_product_details_for_router` AS SELECT
 1 AS `Router_ProductNumber`,
 1 AS `ProductName`,
 1 AS `Category`,
 1 AS `ProductLine`,
 1 AS `ItemStatus`,
 1 AS `EffectiveStartDate`,
 1 AS `EffectiveEndDate`,
 1 AS `EntityType`,
 1 AS `Organisation`,
 1 AS `FullfillmentItemCode`,
 1 AS `Billable`,
 1 AS `Shippable`,
 1 AS `MaxQuantity`,
 1 AS `MinQuantity`,
 1 AS `DefaultQuantity`,
 1 AS `Payment`,
 1 AS `PriceType`,
 1 AS `EANBarCode`,
 1 AS `OrderingAttribute`*/;
SET character_set_client = @saved_cs_client;

--
-- Temporary table structure for view `all_product_details_for_sim`
--

DROP TABLE IF EXISTS `all_product_details_for_sim`;
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_sim`*/;
SET @saved_cs_client     = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE VIEW `all_product_details_for_sim` AS SELECT
 1 AS `SIM_ProductNumber`,
```

```
 1 AS `ProductName`,
 1 AS `Type`,
 1 AS `Category`,
 1 AS `ProductLine`,
 1 AS `ItemStatus`,
 1 AS `EffectiveStartDate`,
 1 AS `EffectiveEndDate`,
 1 AS `EntityType`,
 1 AS `Organisation`,
 1 AS `FullfillmentItemCode`,
 1 AS `Billable`,
 1 AS `Shippable`,
 1 AS `MaxQuantity`,
 1 AS `MinQuantity`,
 1 AS `DefaultQuantity`,
 1 AS `Payment`,
 1 AS `PriceType`,
 1 AS `EANBarCode`,
 1 AS `OrderingAttribute`*/;
SET character_set_client = @saved_cs_client;


--
-- Temporary table structure for view `all_product_details_for_tvequipment`
--

DROP TABLE IF EXISTS `all_product_details_for_tvequipment`;
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_tvequipment`*/;
SET @saved_cs_client     = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE VIEW `all_product_details_for_tvequipment` AS SELECT
 1 AS `TVEquipment_ProductNumber`,
 1 AS `ProductName`,
 1 AS `Category`,
 1 AS `ProductLine`,
 1 AS `ItemStatus`,
 1 AS `EffectiveStartDate`,
 1 AS `EffectiveEndDate`,
 1 AS `EntityType`,
```

```
  1 AS `Organisation`,
  1 AS `FullfillmentItemCode`,
  1 AS `Billable`,
  1 AS `Shippable`,
  1 AS `MaxQuantity`,
  1 AS `MinQuantity`,
  1 AS `DefaultQuantity`,
  1 AS `Payment`,
  1 AS `PriceType`,
  1 AS `EANBarCode`,
  1 AS `OrderingAttribute`*/;
SET character_set_client = @saved_cs_client;


--
-- Table structure for table `eBilling`
--

DROP TABLE IF EXISTS `eBilling`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `eBilling` (
  `eBilling_ID` int(11) NOT NULL,
  `ProductName` varchar(45) NOT NULL,
  `Event` varchar(45) NOT NULL,
  `RatePlanStructure` varchar(45) NOT NULL,
  `Currency` varchar(45) NOT NULL,
  `CostPrice` varchar(45) NOT NULL,
  `RetailPrice` varchar(45) NOT NULL,
  `TaxationCategory` varchar(45) NOT NULL,
  `SIM_ProductNumber` int(11) NOT NULL,
  `Router_ProductNumber` int(11) NOT NULL,
  `TVEquipment_ProductNumber` int(11) NOT NULL,
  `Handset_ProductNumber` int(11) NOT NULL,
  `Promotions_ProductNumber` int(11) NOT NULL,
  `RootProducts_ProductNumber` int(11) NOT NULL,
  PRIMARY KEY
      (`eBilling_ID`,`SIM_ProductNumber`,`Router_ProductNumber`,`TVEquipment_Prod
```

```
      uctNumber`,`Handset_ProductNumber`,`Promotions_ProductNumber`,`RootProduc
      ts_ProductNumber`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `eBilling`
--


LOCK TABLES `eBilling` WRITE;
/*!40000 ALTER TABLE `eBilling` DISABLE KEYS */;
INSERT INTO `eBilling` VALUES (701,'Standard SIM Red','Product Purchase','Single
      Rate Plan','USD','10','12','03 - Standard Rate',52000,0,0,0,0,0),(702,'iPAD SIM
      Red','Product Purchase','Single Rate Plan','USD','10','12','03 - Standard
      Rate',52001,0,0,0,0,0),(703,'Micro SIM Red','Product Purchase','Single Rate
      Plan','USD','10','12','03 - Standard Rate',52002,0,0,0,0,0),(704,'Standard SIM
      White','Product Purchase','Single Rate Plan','USD','10','12','03 - Standard
      Rate',52003,0,0,0,0,0),(705,'Micro SIM White','Product Purchase','Single Rate
      Plan','USD','10','12','03 - Standard Rate',52004,0,0,0,0,0),(706,'iPad Micro Sim
      White','Product Purchase','Single Rate Plan','USD','12','13','03 - Standard
      Rate',52005,0,0,0,0,0),(707,'Nano SIM White','Product Purchase','Single Rate
      Plan','USD','12','13','03 - Standard Rate',52006,0,0,0,0,0),(708,'NFC Dual
      SIM','Product Purchase','Single Rate Plan','USD','12','13','03 - Standard
      Rate',52007,0,0,0,0,0),(709,'Micro NFC SIM','Product Purchase','Single Rate
      Plan','USD','12','13','03 - Standard Rate',52008,0,0,0,0,0),(710,'Nano NFC
      SIM','Product Purchase','Single Rate Plan','USD','12','13','03 - Standard
      Rate',52009,0,0,0,0,0),(711,'Dual Format SIM White','Product Purchase','Single
      Rate Plan','USD','12','13','03 - Standard Rate',52010,0,0,0,0,0),(712,'Nokia N900
      black','Product Purchase','Single Rate Plan','USD','0','0','03 - Standard
      Rate',0,0,0,68400,0,0),(713,'Nokia C5 black','Product Purchase','Single Rate
      Plan','USD','0','0','03 - Standard Rate',0,0,0,68401,0,0),(714,'Samsung Galaxy J5
      black','Product Purchase','Single Rate Plan','USD','99999','999','03 - Standard
      Rate',0,0,0,68402,0,0),(715,'Samsung Galaxy S8 midnight black','Product
      Purchase','Single Rate Plan','USD','400','670','03 - Standard
      Rate',0,0,0,68403,0,0),(716,'Apple iPhone 8 64GB silver','Product Purchase','Single
      Rate Plan','USD','556.5','810','03 - Standard Rate',0,0,0,68404,0,0),(717,'Apple
      iPhone 8 64GB space grey','Product Purchase','Single Rate
      Plan','USD','556.5','810','03 - Standard Rate',0,0,0,68405,0,0),(718,'Apple iPhone 8
```

64GB gold','Product Purchase','Single Rate Plan','USD','556.5','810','03 - Standard Rate',0,0,0,68406,0,0),(719,'Apple iPhone 8 256GB silver','Product Purchase','Single Rate Plan','USD','665','849','03 - Standard Rate',0,0,0,68407,0,0),(720,'Apple iPhone 8 256GB space grey','Product Purchase','Single Rate Plan','USD','665','849','03 - Standard Rate',0,0,0,68408,0,0),(721,'Apple iPhone 8 256GB gold','Product Purchase','Single Rate Plan','USD','665','849','03 - Standard Rate',0,0,0,68409,0,0),(722,'Apple iPhone 8 Plus 64GB silver','Product Purchase','Single Rate Plan','USD','635.54','649','03 - Standard Rate',0,0,0,68410,0,0),(723,'Apple iPhone 8 Plus 64GB space grey','Product Purchase','Single Rate Plan','USD','635.54','649','03 - Standard Rate',0,0,0,68411,0,0),(724,'Apple iPhone 8 Plus 64GB gold','Product Purchase','Single Rate Plan','USD','635.54','649','03 - Standard Rate',0,0,0,68412,0,0),(725,'Apple iPhone 8 Plus 256GB silver','Product Purchase','Single Rate Plan','USD','745','799','03 - Standard Rate',0,0,0,68413,0,0),(726,'Apple iPhone 8 Plus 256GB space grey','Product Purchase','Single Rate Plan','USD','745','799','03 - Standard Rate',0,0,0,68414,0,0),(727,'Apple iPhone 8 Plus 256GB gold','Product Purchase','Single Rate Plan','USD','745','799','03 - Standard Rate',0,0,0,68415,0,0),(728,'Apple iPhone 8 64GB red','Product Purchase','Single Rate Plan','USD','556.5','810','03 - Standard Rate',0,0,0,68416,0,0),(729,'Apple iPhone 8 Plus 64GB red','Product Purchase','Single Rate Plan','USD','635.54','649','03 - Standard Rate',0,0,0,68417,0,0),(730,'Google Pixel 3 XL 128GB black','Product Purchase','Single Rate Plan','USD','99999','4999','03 - Standard Rate',0,0,0,68418,0,0),(731,'Google Pixel 3 XL 128GB white','Product Purchase','Single Rate Plan','USD','99999','4999','03 - Standard Rate',0,0,0,68419,0,0),(732,'Google Pixel 3 XL 128GB pink','Product Purchase','Single Rate Plan','USD','99999','4999','03 - Standard Rate',0,0,0,68420,0,0),(733,'One Plus 6T Colour 1','Product Purchase','Single Rate Plan','USD','99999','4999','03 - Standard Rate',0,0,0,68421,0,0),(734,'One Plus 6T Colour 1 PAYG','Product Purchase','Single Rate Plan','USD','99999','4999','03 - Standard Rate',0,0,0,68422,0,0),(735,'One Plus 6T Colour 2','Product Purchase','Single Rate Plan','USD','99999','4999','03 - Standard Rate',0,0,0,68423,0,0),(736,'One Plus 6T Colour 2 PAYG','Product Purchase','Single Rate Plan','USD','99999','4999','03 - Standard Rate',0,0,0,68424,0,0),(737,'Vodafone Set Top Box Activation','Product Purchase','Single Rate Plan','USD','78.84','99.99996','03 - Standard Rate',0,0,86600,0,0,0),(738,'Bailment Set Top Box','Product purchase free','Single

Rate Plan','USD','0','0','03 - Standard Rate',0,0,86601,0,0,0),(739,'Vodafone Broadband router white','Product purchase free','Single Rate Plan','USD','55.5','0','03 - Standard Rate',0,200690,0,0,0,0),(740,'Replacement router white','Product purchase free','Single Rate Plan','USD','0','0','03 - Standard Rate',0,200691,0,0,0,0),(741,'Vodafone Broadband router','Product purchase free','Single Rate Plan','USD','40.67','0','03 - Standard Rate',0,200692,0,0,0,0),(742,'Replacement router','Product purchase free','Single Rate Plan','USD','0','0','03 - Standard Rate',0,200693,0,0,0,0),(743,'Router','Product purchase free','Single Rate Plan','USD','0','0','03 - Standard Rate',0,200694,0,0,0,0),(744,'Vodafone VOX 3.0 Uk','Product purchase','Single Rate Plan','USD','58.1','99','03 - Standard Rate',0,200695,0,0,0,0),(745,'Vodafone Broadband Router (Model C)','Product purchase','Single Rate Plan','USD','0','309.99996','03 - Standard Rate',0,200696,0,0,0,0),(746,'Vodafone Broadband Router (Model D)','Product purchase','Single Rate Plan','USD','0','834','03 - Standard Rate',0,200697,0,0,0,0),(747,'SIM package','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102211,0),(748,'Phone and SIM package','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102212,0),(749,'Mobile broadband SIM and device package','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102213,0),(750,'Dongle Package','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102214,0),(751,'iPad SIMO Package','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102215,0),(752,'Mobile Wi-Fi Package','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102216,0),(753,'24mth Laptop 3072MB','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102217,0),(754,'24mth Laptop 5120MB','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102218,0),(755,'1month Dongle 500MB','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102219,0),(756,'1mth Tablet SIMO 1GB','Monthly cycle','Single Rate Plan','USD','','','03 - Standard Rate',0,0,0,0,102220,0),(757,'Insurance band 1','Product Purchase','Single Rate Plan','USD','78.84','99.99996','03 - Standard Rate',0,0,0,0,0,104951),(758,'Insurance band 2','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104952),(759,'Mobile theft and damage cover 1','Product purchase free','Single Rate Plan','USD','55.5','0','04 - Out of Scope',0,0,0,0,0,104953),(760,'Mobile theft and damage cover 2','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104954),(761,'Port Out','Product purchase free','Single Rate Plan','USD','40.67','0','04 - Out of Scope',0,0,0,0,0,104955),(762,'Apple Protection

Plan','Product purchase free','Single Rate Plan','USD','0','0','03 - Standard Rate',0,0,0,0,0,104956),(763,'Collect in store','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104957),(764,'Deliver to store','Product Purchase','Single Rate Plan','USD','58.1','99','03 - Standard Rate',0,0,0,0,0,104958),(765,'Billing Activation','Product Purchase','Single Rate Plan','USD','0','309.99996','03 - Standard Rate',0,0,0,0,0,104959),(766,'Switching Credit','Product Purchase','Single Rate Plan','USD','0','834','03 - Standard Rate',0,0,0,0,0,104960),(767,'TV Set Up Fee','Product Purchase','Single Rate Plan','USD','78.84','99.99996','03 - Standard Rate',0,0,0,0,0,104961),(768,'Repair (Phone) - 32GB','Product purchase free','Single Rate Plan','USD','0','0','03 - Standard Rate',0,0,0,0,0,104962),(769,'Repair (Phone) - 64GB','Product purchase free','Single Rate Plan','USD','55.5','0','03 - Standard Rate',0,0,0,0,0,104963),(770,'Repair (Phone) - 128GB','Product purchase free','Single Rate Plan','USD','0','0','03 - Standard Rate',0,0,0,0,0,104964),(771,'Premier Theft and Lost Insurance','Product purchase free','Single Rate Plan','USD','40.67','0','03 - Standard Rate',0,0,0,0,0,104965),(772,'Lync Online','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104966),(773,'Microsoft Office','Product purchase free','Single Rate Plan','USD','0','0','03 - Standard Rate',0,0,0,0,0,104967),(774,'Consultancy fee','Product Purchase','Single Rate Plan','USD','58.1','99','03 - Standard Rate',0,0,0,0,0,104968),(775,'Business Damage Insurance','Product Purchase','Single Rate Plan','USD','0','309.99996','03 - Standard Rate',0,0,0,0,0,104969),(776,'Theft + Loss insurance','Product Purchase','Single Rate Plan','USD','0','834','04 - Out of Scope',0,0,0,0,0,104970),(777,'Damaged or Locked Return Charge 32GB','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104971),(778,'Damaged or Locked Return Charge 64GB','Product purchase free','Single Rate Plan','USD','55.5','0','04 - Out of Scope',0,0,0,0,0,104972),(779,'Damaged or Locked Return Charge 128GB','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104973),(780,'Business Support','Product purchase free','Single Rate Plan','USD','40.67','0','04 - Out of Scope',0,0,0,0,0,104974),(781,'Device Support','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104975),(782,'Out Of Warranty Repair Charge','Product purchase free','Single Rate Plan','USD','0','0','04 - Out of Scope',0,0,0,0,0,104976),(783,'Damaged Return Charge - In Store','Product Purchase','Single Rate Plan','USD','58.1','99','03 - Standard Rate',0,0,0,0,0,104977),(784,'Damaged Return Charge - Returns Centre','Product

Purchase','Single Rate Plan','USD','0','309.99996','03 - Standard Rate',0,0,0,0,0,104978),(785,'BX NOKIA CHARGER MICRO USB','Product Purchase','Single Rate Plan','USD','0','834','03 - Standard Rate',0,0,0,0,0,104979),(786,'BX SAM BATTERY EB504465VU','Product purchase free','Single Rate Plan','USD','8','0','03 - Standard Rate',0,0,0,0,0,104980),(787,'BX APPLE CHARGER USB PLUG','Product purchase free','Single Rate Plan','USD','12','0','03 - Standard Rate',0,0,0,0,0,104981),(788,'Beats Solo HD Headphones','Product purchase free','Single Rate Plan','USD','8','0','03 - Standard Rate',0,0,0,0,0,104982),(789,'Apple i5 Screen Protector','Product Purchase','Single Rate Plan','USD','93','115','03 - Standard Rate',0,0,0,0,0,104983),(790,'JBL Slate Over Ear Headphones','Product Purchase','Single Rate Plan','USD','1.58','12','03 - Standard Rate',0,0,0,0,0,104984),(791,'Jabra Active Heaphones','Product Purchase','Single Rate Plan','USD','50.81','45','03 - Standard Rate',0,0,0,0,0,104985),(792,'Apple Pencil','Product Purchase','Single Rate Plan','USD','5','15','03 - Standard Rate',0,0,0,0,0,104986),(793,'JBL Headphones T450 black','Product Purchase','Single Rate Plan','USD','59.25','79','03 - Standard Rate',0,0,0,0,0,104987),(794,'JBL Headphones T450 white','Product Purchase','Single Rate Plan','USD','9.98','25','03 - Standard Rate',0,0,0,0,0,104988),(795,'Apple Airpods','Product Purchase','Single Rate Plan','USD','9.98','25','03 - Standard Rate',0,0,0,0,0,104989),(796,'Sony EX110AP headphones black','Product Purchase','Single Rate Plan','USD','100.14','159','03 - Standard Rate',0,0,0,0,0,104990),(797,'Sony ZX220BTB Wireless headphones','Product Purchase','Single Rate Plan','USD','9.19','20','03 - Standard Rate',0,0,0,0,0,104991),(798,'Apple EarPods Lightning Connect','Product Purchase','Single Rate Plan','USD','32.12','60','03 - Standard Rate',0,0,0,0,0,104992),(799,'Google Wifi','Product Purchase','Single Rate Plan','USD','18.27','29','03 - Standard Rate',0,0,0,0,0,104993),(800,'Google Chromecast','Product Purchase','Single Rate Plan','USD','153.42','229','03 - Standard Rate',0,0,0,0,0,104994),(801,'Google Home','Product Purchase','Single Rate Plan','USD','51.24','69','03 - Standard Rate',0,0,0,0,0,104995),(802,'Apple iPad Pro 10.5 Leather Smart Cover black','Product Purchase','Single Rate Plan','USD','86.42','99.99','03 - Standard Rate',0,0,0,0,0,104996),(803,'Google Home Mini','Product Purchase','Single Rate Plan','USD','43.12','69','03 - Standard Rate',0,0,0,0,0,104997),(804,'Samsung Headphones black','Product Purchase','Single Rate Plan','USD','35.23','39','03 - Standard Rate',0,0,0,0,0,104998);
/*!40000 ALTER TABLE `eBilling` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Final view structure for view `all_product_details_for_handset`
--

```
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_handset`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8 */;
/*!50001 SET character_set_results     = utf8 */;
/*!50001 SET collation_connection      = utf8_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `all_product_details_for_handset` AS select distinct
    `p`.`Handset_ProductNumber` AS `Handset_ProductNumber`,`p`.`ProductName`
    AS `ProductName`,`h`.`Manufacturer` AS `Manufacturer`,`h`.`Warranty` AS
    `Warranty`,`h`.`Memory` AS `Memory`,`h`.`Color` AS `Color`,`c`.`Category` AS
    `Category`,`l`.`ProductLine` AS `ProductLine`,`p`.`ItemStatus` AS
    `ItemStatus`,`p`.`EffectiveStartDate` AS `EffectiveStartDate`,`p`.`EffectiveEndDate`
    AS `EffectiveEndDate`,`p`.`EntityType` AS `EntityType`,`p`.`Organisation` AS
    `Organisation`,`p`.`FullfillmentItemCode` AS `FullfillmentItemCode`,`p`.`Billable` AS
    `Billable`,`p`.`Shippable` AS `Shippable`,`p`.`MaxQuantity` AS
    `MaxQuantity`,`p`.`MinQuantity` AS `MinQuantity`,`p`.`DefaultQuantity` AS
    `DefaultQuantity`,`p`.`Payment` AS `Payment`,`p`.`PriceType` AS
    `PriceType`,`p`.`EANBarCode` AS `EANBarCode`,`p`.`OrderingAttribute` AS
    `OrderingAttribute` from (((`productdetails` `p` join `category` `c`
    on((`c`.`Handset_ProductNumber` = `p`.`Handset_ProductNumber`))) join
    `productline` `l` on((`l`.`Handset_ProductNumber` =
    `p`.`Handset_ProductNumber`))) join `handset` `h`
    on((`h`.`Handset_ProductNumber` = `p`.`Handset_ProductNumber`))) where
    (`p`.`Handset_ProductNumber` <> 0) */;
/*!50001 SET character_set_client      = @saved_cs_client */;
/*!50001 SET character_set_results     = @saved_cs_results */;
/*!50001 SET collation_connection      = @saved_col_connection */;
```

--
-- Final view structure for view `all_product_details_for_promotion`

```
--

/*!50001 DROP VIEW IF EXISTS `all_product_details_for_promotion`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results          = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8 */;
/*!50001 SET character_set_results      = utf8 */;
/*!50001 SET collation_connection       = utf8_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `all_product_details_for_promotion` AS select distinct
    `p`.`Promotions_ProductNumber` AS
    `Promotions_ProductNumber`,`p`.`ProductName` AS
    `ProductName`,`t`.`PrimaryProduct` AS `PrimaryProduct`,`t`.`Plan` AS
    `Plan`,`t`.`RecurringCharge` AS `RecurringCharge`,`t`.`Penalty` AS
    `Penalty`,`t`.`ChargeCreditType` AS `ChargeCreditType`,`c`.`Category` AS
    `Category`,`l`.`ProductLine` AS `ProductLine`,`p`.`ItemStatus` AS
    `ItemStatus`,`p`.`EffectiveStartDate` AS `EffectiveStartDate`,`p`.`EffectiveEndDate`
    AS `EffectiveEndDate`,`p`.`EntityType` AS `EntityType`,`p`.`Organisation` AS
    `Organisation`,`p`.`FullfillmentItemCode` AS `FullfillmentItemCode`,`p`.`Billable` AS
    `Billable`,`p`.`Shippable` AS `Shippable`,`p`.`MaxQuantity` AS
    `MaxQuantity`,`p`.`MinQuantity` AS `MinQuantity`,`p`.`DefaultQuantity` AS
    `DefaultQuantity`,`p`.`Payment` AS `Payment`,`p`.`PriceType` AS
    `PriceType`,`p`.`EANBarCode` AS `EANBarCode`,`p`.`OrderingAttribute` AS
    `OrderingAttribute` from (((`productdetails` `p` join `category` `c`
    on((`c`.`Promotions_ProductNumber` = `p`.`Promotions_ProductNumber`))) join
    `productline` `l` on((`l`.`Promotions_ProductNumber` =
    `p`.`Promotions_ProductNumber`))) join `promotions` `t`
    on((`t`.`Promotions_ProductNumber` = `p`.`Promotions_ProductNumber`))) where
    (`p`.`Promotions_ProductNumber` <> 0) */;
/*!50001 SET character_set_client      = @saved_cs_client */;
/*!50001 SET character_set_results      = @saved_cs_results */;
/*!50001 SET collation_connection       = @saved_col_connection */;

--
-- Final view structure for view `all_product_details_for_rootproducts`
--
```

```
/*!50001 DROP VIEW IF EXISTS `all_product_details_for_rootproducts`*/;
/*!50001 SET @saved_cs_client       = @@character_set_client */;
/*!50001 SET @saved_cs_results       = @@character_set_results */;
/*!50001 SET @saved_col_connection    = @@collation_connection */;
/*!50001 SET character_set_client     = utf8 */;
/*!50001 SET character_set_results     = utf8 */;
/*!50001 SET collation_connection       = utf8_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `all_product_details_for_rootproducts` AS select distinct
    `p`.`RootProducts_ProductNumber` AS
    `RootProducts_ProductNumber`,`p`.`ProductName` AS
    `ProductName`,`c`.`Category` AS `Category`,`l`.`ProductLine` AS
    `ProductLine`,`p`.`ItemStatus` AS `ItemStatus`,`p`.`EffectiveStartDate` AS
    `EffectiveStartDate`,`p`.`EffectiveEndDate` AS `EffectiveEndDate`,`p`.`EntityType`
    AS `EntityType`,`p`.`Organisation` AS `Organisation`,`p`.`FullfillmentItemCode` AS
    `FullfillmentItemCode`,`p`.`Billable` AS `Billable`,`p`.`Shippable` AS
    `Shippable`,`p`.`MaxQuantity` AS `MaxQuantity`,`p`.`MinQuantity` AS
    `MinQuantity`,`p`.`DefaultQuantity` AS `DefaultQuantity`,`p`.`Payment` AS
    `Payment`,`p`.`PriceType` AS `PriceType`,`p`.`EANBarCode` AS
    `EANBarCode`,`p`.`OrderingAttribute` AS `OrderingAttribute` from
    ((`productdetails` `p` join `category` `c` on((`c`.`RootProducts_ProductNumber` =
    `p`.`RootProducts_ProductNumber`))) join `productline` `l`
    on((`l`.`RootProducts_ProductNumber` = `p`.`RootProducts_ProductNumber`)))
    where (`p`.`RootProducts_ProductNumber` <> 0) */;
/*!50001 SET character_set_client     = @saved_cs_client */;
/*!50001 SET character_set_results     = @saved_cs_results */;
/*!50001 SET collation_connection       = @saved_col_connection */;

--
-- Final view structure for view `all_product_details_for_router`
--

/*!50001 DROP VIEW IF EXISTS `all_product_details_for_router`*/;
/*!50001 SET @saved_cs_client       = @@character_set_client */;
/*!50001 SET @saved_cs_results       = @@character_set_results */;
/*!50001 SET @saved_col_connection    = @@collation_connection */;
```

```
/*!50001 SET character_set_client      = utf8 */;
/*!50001 SET character_set_results     = utf8 */;
/*!50001 SET collation_connection      = utf8_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `all_product_details_for_router` AS select distinct
    `p`.`Router_ProductNumber` AS `Router_ProductNumber`,`p`.`ProductName` AS
    `ProductName`,`c`.`Category` AS `Category`,`l`.`ProductLine` AS
    `ProductLine`,`p`.`ItemStatus` AS `ItemStatus`,`p`.`EffectiveStartDate` AS
    `EffectiveStartDate`,`p`.`EffectiveEndDate` AS `EffectiveEndDate`,`p`.`EntityType`
    AS `EntityType`,`p`.`Organisation` AS `Organisation`,`p`.`FullfillmentItemCode` AS
    `FullfillmentItemCode`,`p`.`Billable` AS `Billable`,`p`.`Shippable` AS
    `Shippable`,`p`.`MaxQuantity` AS `MaxQuantity`,`p`.`MinQuantity` AS
    `MinQuantity`,`p`.`DefaultQuantity` AS `DefaultQuantity`,`p`.`Payment` AS
    `Payment`,`p`.`PriceType` AS `PriceType`,`p`.`EANBarCode` AS
    `EANBarCode`,`p`.`OrderingAttribute` AS `OrderingAttribute` from
    ((((`productdetails` `p` join `category` `c` on((`c`.`Router_ProductNumber` =
    `p`.`Router_ProductNumber`))) join `productline` `l`
    on((`l`.`Router_ProductNumber` = `p`.`Router_ProductNumber`))) join `router` `h`
    on((`h`.`Router_ProductNumber` = `p`.`Router_ProductNumber`))) where
    (`p`.`Router_ProductNumber` <> 0) */;
/*!50001 SET character_set_client      = @saved_cs_client */;
/*!50001 SET character_set_results     = @saved_cs_results */;
/*!50001 SET collation_connection      = @saved_col_connection */;

--
-- Final view structure for view `all_product_details_for_sim`
--

/*!50001 DROP VIEW IF EXISTS `all_product_details_for_sim`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8 */;
/*!50001 SET character_set_results     = utf8 */;
/*!50001 SET collation_connection      = utf8_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
```

```
/*!50001 VIEW `all_product_details_for_sim` AS select distinct
    `p`.`SIM_ProductNumber` AS `SIM_ProductNumber`,`p`.`ProductName` AS
    `ProductName`,`s`.`Type` AS `Type`,`c`.`Category` AS `Category`,`l`.`ProductLine`
    AS `ProductLine`,`p`.`ItemStatus` AS `ItemStatus`,`p`.`EffectiveStartDate` AS
    `EffectiveStartDate`,`p`.`EffectiveEndDate` AS `EffectiveEndDate`,`p`.`EntityType`
    AS `EntityType`,`p`.`Organisation` AS `Organisation`,`p`.`FullfillmentItemCode` AS
    `FullfillmentItemCode`,`p`.`Billable` AS `Billable`,`p`.`Shippable` AS
    `Shippable`,`p`.`MaxQuantity` AS `MaxQuantity`,`p`.`MinQuantity` AS
    `MinQuantity`,`p`.`DefaultQuantity` AS `DefaultQuantity`,`p`.`Payment` AS
    `Payment`,`p`.`PriceType` AS `PriceType`,`p`.`EANBarCode` AS
    `EANBarCode`,`p`.`OrderingAttribute` AS `OrderingAttribute` from
    (((`productdetails` `p` join `category` `c` on((`c`.`SIM_ProductNumber` =
    `p`.`SIM_ProductNumber`))) join `productline` `l` on((`l`.`SIM_ProductNumber` =
    `p`.`SIM_ProductNumber`))) join `sim` `s` on((`s`.`SIM_ProductNumber` =
    `p`.`SIM_ProductNumber`))) where (`p`.`SIM_ProductNumber` <> 0) */;
/*!50001 SET character_set_client      = @saved_cs_client */;
/*!50001 SET character_set_results     = @saved_cs_results */;
/*!50001 SET collation_connection       = @saved_col_connection */;


--
-- Final view structure for view `all_product_details_for_tvequipment`
--

/*!50001 DROP VIEW IF EXISTS `all_product_details_for_tvequipment`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8 */;
/*!50001 SET character_set_results     = utf8 */;
/*!50001 SET collation_connection       = utf8_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `all_product_details_for_tvequipment` AS select distinct
    `p`.`TVEquipment_ProductNumber` AS
    `TVEquipment_ProductNumber`,`p`.`ProductName` AS
    `ProductName`,`c`.`Category` AS `Category`,`l`.`ProductLine` AS
    `ProductLine`,`p`.`ItemStatus` AS `ItemStatus`,`p`.`EffectiveStartDate` AS
    `EffectiveStartDate`,`p`.`EffectiveEndDate` AS `EffectiveEndDate`,`p`.`EntityType`
```

```
AS `EntityType`,`p`.`Organisation` AS `Organisation`,`p`.`FullfillmentItemCode` AS
`FullfillmentItemCode`,`p`.`Billable` AS `Billable`,`p`.`Shippable` AS
`Shippable`,`p`.`MaxQuantity` AS `MaxQuantity`,`p`.`MinQuantity` AS
`MinQuantity`,`p`.`DefaultQuantity` AS `DefaultQuantity`,`p`.`Payment` AS
`Payment`,`p`.`PriceType` AS `PriceType`,`p`.`EANBarCode` AS
`EANBarCode`,`p`.`OrderingAttribute` AS `OrderingAttribute` from
((`productdetails` `p` join `category` `c` on((`c`.`TVEquipment_ProductNumber` =
`p`.`TVEquipment_ProductNumber`))) join `productline` `l`
on((`l`.`TVEquipment_ProductNumber` = `p`.`TVEquipment_ProductNumber`)))
where (`p`.`TVEquipment_ProductNumber` <> 0) */;
/*!50001 SET character_set_client      = @saved_cs_client */;
/*!50001 SET character_set_results     = @saved_cs_results */;
/*!50001 SET collation_connection      = @saved_col_connection */;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS
    */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;


-- Dump completed on 2018-12-13  2:47:28CustomerAccountAndProductDetails

/*Procedure for Customer Account details-*/

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE
    `CustomerAccountAndProductDetails`()
BEGIN
select distinct b.BillingID, b.ProductNumber, b.Bills, b.Customer_ID, c.FirstName,
    c.MiddleName, c.LastName,
c.PhoneNumber, c.Email, c.Address,e.CostPrice,e.RetailPrice,e.Currency,
e.TaxationCategory,e.Event,e.RatePlanStructure
from BillingAccountDetails b
inner JOIN Customer c
```

```
ON
b.Customer_ID = c.Customer_ID
INNER JOIN eBilling e
ON
c.SIM_ProductNumber=e.SIM_ProductNumber;
END$$
DELIMITER ;


/*procedure for customer creation-*/


DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `CUSTOMERBILLING`()
BEGIN
START TRANSACTION;
INSERT INTO `mydb`.`Customer`
    VALUES(5001,"Joe","","Chandler","7276327105","joe@xyz.com","Califorina","0","8
    6601","0","0","0","104957");


INSERT INTO `mydb`.`BillingAccountDetails` VALUES("1-
    HJGL","104957","unpaid",1,"5001");
INSERT INTO `mydb`.`BillingAccountDetails` VALUES("1-
    HJGL","86601","paid",1,"5001");
COMMIT;
END$$
DELIMITER ;


/*procedure for handset and promotion creation-*/


DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE
    `HandsetAndPromotionProductCreation`()
BEGIN
INSERT INTO `mydb`.`ProductDetails` VALUES(514,"Active","2016-08-
    20","NULL","Product","VF Red Brand","Handset","Yes","Yes","999","0","0","","One
    Time","0;0;0","164050",03,03,03,68402,03,03,'Samsung Galaxy J5 black');
```

```
INSERT INTO `mydb`.`ProductDetails` VALUES(556,"Inactive","2014-09-
    01","NULL","Promotion","VF Red
    Brand","Promotion","No","No","1","1","1","Postpaid","Recurring","","0",04,04,04,04,0
    4,102220,'1mth Tablet SIMO 1GB');
END$$
DELIMITER ;


/*procedure for Router creation*/
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `RouterProductcreation`()
BEGIN
INSERT INTO `mydb`.`ProductDetails` VALUES(545,"Active","2017-01-01","2017-11-
    03","Product","Default Organisation","Fixed Broadband
    Equipment","Yes","Yes","1","0","0","Postpaid","One
    Time","","82090",01,200696,01,01,01,01,'Vodafone Broadband Router');
INSERT INTO `mydb`.`ProductDetails` VALUES(546,"Active","2017-01-01","2017-11-
    03","Product","Default Organisation","Fixed Broadband
    Equipment","Yes","Yes","1","0","0","Postpaid","One
    Time","","82090",01,200697,01,01,01,01,'Vodafone Broadband Router (Model D)');
END$$
DELIMITER ;


/*procedure for TVEquipment creation*/
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `TVEquipmentProductCreation`()
BEGIN
INSERT INTO `mydb`.`ProductDetails` VALUES(538,"Inactive","2017-01-01","2017-03-
    20","Product","Default Organisation","TV
    Equipment","Yes","Yes","1","0","0","Postpaid","One
    Time","","92200",01,01,86601,01,01,01,'Bailment Set Top Box');
END$$
DELIMITER ;


/*procedure for Total product report*/
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `Total_Product_Count_report`()
BEGIN
```

```sql
select (select count(*) from ProductDetails) Total_Overall_product, (select count(*) from
     Router) Total_Router,
 (select count(*) from Promotions) Total_Promotions,(select count(*) from
     RootProducts) TotalRootProducts,
 (select count(*) from TVEquipment) Total_TVEquipment,(select count(*) from SIM)
     Total_SIM,
 (select count(*) from Handset) Total_Handset from dual;
END$$
DELIMITER ;


/*procedure for unpaid*/
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `unpaid_bills`()
BEGIN
select * from Customer where Customer_ID IN (select Customer_ID from
     BillingAccountDetails where Bills='unpaid' );
END$$
DELIMITER ;


/*procedure for update subquery*/
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE
     `Update_subquery_forNullEntryInPayment`()
BEGIN
Update ProductDetails
SET Payment = 'Prepaid' where Payment IN (select Payment from ProductDetails
     where Payment = "" and PriceType='One Time');
END$$
DELIMITER ;


/*trigger for product*/
create trigger TVEquipmentProductCreation
after insert on ProductDetails
for each row
insert into TVEquipment(TVEquipment_ProductNumber,ProductName)
values (NEW.TVEquipment_ProductNumber,NEW.ProductName);
```