**Makeup and Cosmetic management system**

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***ABSTRACT***

This Project is based on how user can efficiently manage cosmetics and various other makeup products. Provides great speed and thus reduces time consumption. This system can easily derive any Cosmetic product information wanted by the user.

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***Batch : T315/DS***

***MAKEUP AND COSMETIC MANAGEMENT SYSTEM***

***Project for SQL Module***

# *DESCRIPTION:*

Following database schema is designed to function as a backend storage database for a web application built to manage a Cosmetic shop or store.

By storing information in a relational database, all the tasks related to daily functioning of the Store can be performed easily and much more efficiently. Some of the benefits of using this system to store data over traditional paper registers are as follows:

* 1. Updating and modifying Product list in the Store is much easier and efficient
  2. Maintaining customer details and their account is easy and efficient.
  3. Calculations like due payments can be done automatically by DBMS, thus eliminating human error
  4. RDBMS provides many ways to analyze available data, thus helping in making more informed decisions about inventory management and other aspects of Cosmetic management

This database contains 6 tables:

1. Brand
2. Type (Product Type)
3. Brand
4. Customer
5. Transaction
6. WomensDaySpecial (Gifts Offer)

How these tables/entities are related to each other is shown pictorially on next page through ER diagram, i.e., Entity Relationship Diagram.

# *ER-Diagram (Entity Relation – Diagram) for Library Management System:*

|  |
| --- |
| TRANSACTION |
| TransactionId(PK)  CustomerId(FK)  ProductId(FK)  ProductPrice  ProdName |

# 

|  |
| --- |
| PRODUCT |
| ProductId(PK)  ProdName  ProductPrice  ManufacturingDate  Usebeforedate  BrandId(FK)  TypeId(PK) |

|  |
| --- |
| CUSTOMER |
| CustomerId(PK)  FirstName  LastName  Gender  Age |

|  |
| --- |
| WOMENSDAYSPECIAL |
| GiftId(PK)  OcassionDate  CustomerId(FK)  CustName  Gender  GiftHamper |

Gets

Purchase

Makee

Having Type

Made by

|  |
| --- |
| BRAND |
| BrandId(PK)  BrandName  CountryOfOrigin |

|  |
| --- |
| tYPES |
| TypeId(PK)  ProductType |

**TABLE DESCRIPTIONS:**

1. Brand.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| BrandId | int | NO | PRI | NULL |  |
| BrandName | varchar(50) | YES |  | NULL |  |
| CountryOfOrigin | varchar(30) | YES |  | NULL |  |

2. Type.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| TypeId | int | NO | PRI | NULL |  |
| ProductType | varchar(30) | YES |  | NULL |  |

3. Customer.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| CustomerId | int | NO | PRI | NULL |  |
| FirstName | varchar(20) | YES |  | NULL |  |
| LastName | varchar(20) | YES |  | NULL |  |
| Gender | varchar(6) | YES |  | NULL |  |
| Age | int | YES |  | NULL |  |

4. WomensDaySpecial.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| GiftId | int | YES |  | NULL |  |
| OcassionDate | date | YES |  | 09-08-2024 |  |
| CustomerId | int | YES | MUL | NULL |  |
| CustName | varchar(30) | YES |  | NULL |  |
| Gender | varchar(6) | YES |  | NULL |  |
| GiftHamper | varchar(30) | YES |  | NULL |  |

5. Product.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| ProductId | int | NO | PRI | NULL |  |
| ProdName | varchar(30) | YES |  | NULL |  |
| ProductPrice | int | YES |  | NULL |  |
| ManufacturingDate | datetime | YES |  | NULL |  |
| Usebeforedate | datetime | YES |  | NULL |  |
| BrandId | int | YES | MUL | NULL |  |
| TypeId | int | YES | MUL | NULL |  |

6. Transaction.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| TransactionId | int | NO | PRI | NULL |  |
| CustomerId | int | YES | MUL | NULL |  |
| ProductId | int | YES | MUL | NULL |  |
| ProductPrice | int | YES |  | NULL |  |
| ProductName | varchar(30) | YES |  | NULL |  |

CREATING DATABASE:

Create database mcms;

Use mcms;

TABLE CREATION & insertion COMMANDS:

1**) Create table Brand.**

Create table Brand(

BrandId int primary key,

BrandName varchar(50),

CountryOfOrigin varchar(30));

**Inserting Values into Brand:**

insert into Brand(BrandId, BrandName, CountryOfOrigin)

values(1,'LoveMe Cosmetics','Russia'),

(2,'Knockout Makeup','Africa'),

(3,'Eternal Beauty','Algeria'),

(4,'Pressed','Argentina'),

(5,'Organica Beauty','Armenia'),

(6,'Retreat Cosmetics','Thailand'),

(7,'Cuffed Beauty','America'),

(8,'Sentirsi Organics','China'),

(9,'Centre of Attention Cosmetics','Japan'),

(10,'Smelly Belly Beauty','Korea'),

(11,'Narcissique','Australia'),

(12,'Blur Beauty','Canada'),

(13,'Birthday Girl Beauty','Belgium'),

(14,'Vrai Luxe','Cuba'),

(15,'Ingenue Cosmetics','Brazil'),

(16,'Femme Fatale','Afghanistan'),

(17,'Junkie Makeup','Pakistan'),

(18,'Date Night','Poland'),

(19,'Risky Beauty','Qatar'),

(20,'WHO.IS.SHE','Romania'),

(21,'Bare Necessary Beauty','Samoa'),

(22,'Abbracciami Beauty','Saudi Arabia'),

(23,'BreakNeck Beauty','Saint Lucia'),

(24,'Happy Hour','Switzerland'),

(25,'Abundant Beauty','Texas'),

(26,'See Me Beauty','Tonga'),

(27,'ESSENTIALIST','Ukraine'),

(28,'MiAmor Makeup','Vietnam'),

(29,'Upgrade','Zambia'),

(30,'Blended Beauty','Dubai');

2) **Create table Type.**

Create table Type(

TypeId int primary key,

ProductType varchar(30));

**Inserting Values into Type:**

insert into Type(TypeId, ProductType)

values(1,'HairCare'),

(2,'SkinCare'),

(3,'LipCare'),

(4,'NailCare'),

(5,'EyeCare');

3) **Create table Customer.**

create table Customer(

CustomerId int Primary key,

FirstName varchar(20),

LastName varchar(20),

Gender varchar(6),

Age int);

**Inserting Values Into Customer:**

insert into Customer(CustomerId,FirstName,LastName,Gender,Age)

values (1,'Aidan','Butler','Female',22),

(2,'Haroid','Simmons','Male',78),

(3,'Conner','Flores','Female',34),

(4,'Peter','Bennett','Male',33),

(5,'Hunter','Sanders','Female',35),

(6,'Eli','Hughes','Male',23),

(7,'Alberto','Bryant','Female',40),

(8,'Carlos','Patterson','Female',39),

(9,'Shane','Matthews','Male',45),

(10,'Aaron','Jenkins','Female',55),

(11,'Marlin','Watkins','Male',28),

(12,'Paul','Ward','Female',34),

(13,'Ricardo','Murphy','Male',45),

(14,'Hector','Bailey','Female',44),

(15,'Alexis','Beil','Male',26),

(16,'Adrain','Cox','Female',67),

(17,'Kingston','Martinez','Male',33),

(18,'Douglas','Evans','Female',56),

(19,'Geraid','Rivera','Male',32),

(20,'Joey','Peterson','Female',49),

(21,'Johnny','Gomez','Male',20),

(22,'Charlie','Murray','Female',45),

(23,'Scott','Tucker','Female',34),

(24,'Martin','Hicks','Female',56),

(25,'Tristin','Crawford','Female',30),

(26,'Amara','Atticus','Female',45),

(27,'Ava','Asher','Female',50),

(28,'Bella','Baron','Female',28),

(29,'Cora','Beckett','Female',45),

(30,'Ella','Callum','Female',37),

(31,'Evie','Carson','Female',66),

(32,'Evelyn','Colt','Female',28),

(33,'Freya','Declan','Female',45),

(34,'Grace','Felix','Female',56),

(35,'Iris','George','Female',39),

(36,'Jane','Graham','Female',32),

(37,'Katherine','Henry','Female',27),

(38,'Layla','Jasper','Female',36),

(39,'Lillian','Jude','Female',27),

(40,'Lucy','Kai','Female',22),

(41,'Maeve','Leo','Female',56),

(42,'Margot','Luke','Female',29),

(43,'Mila','Max','Female',40),

(44,'Oaklyn','Noah','Female',47),

(45,'Palmer','Owen','Female',37),

(46,'Poppy','Roman','Female',48),

(47,'Reese','Samuel','Female',36),

(48,'Sadie','Sink','Female',35),

(49,'Stella','Silas','Female',30),

(50,'Thea','Theo','Female',40);

4) **Create table WomensDaySpecial.**

create table WomensDaySpecial(

GiftId int,

OcassionDate date default '2024-08-09',

CustomerId int,

CustName Varchar(30),

Gender varchar(6) check(Gender='Female'),

GiftHamper Varchar(30),

CONSTRAINT fk\_Customer FOREIGN KEY(CustomerId) REFERENCES Customer(CustomerId));

**Inserting Values into WomensDaySpecial:**

insert into WomensDaySpecial(GiftId,CustomerId,CustName, Gender,GiftHamper)

values(1,1,'Aidan Butler','Female','Chocolates'),

(2,3,'Conner Flores','Female','Vouchers'),

(3,5,'Hunter Sanders','Female','Dress'),

(4,7,'Alberto Bryant','Female','Perfumes'),

(5,8,'Carlos Patterson','Female','VacationCoupon'),

(6,10,'Aaron Jenkins','Female','crockery set'),

(7,12,'Paul Ward','Female','NailColor'),

(8,14,'Hector Bailey','Female','Diamond'),

(9,16,'Adrain Cox','Female','Bracelet'),

(10,18,'Douglas Evans','Female','Necklace'),

(11,20,'Joey Peterson','Female','Gold ring'),

(12,22,'Charlie Murray','Female','Earrings'),

(13,23,'Scott Tucker','Female','Sandals'),

(14,24,'Martin Hicks','Female','Gold ring'),

(15,25,'Tristin Crawford','Female','Chocolates'),

(16,26,'Amara Atticus','Female','Diamond'),

(17,27,'Ava Ashar','Female','Perfumes'),

(18,28,'Bella Baron','Female','crockery set'),

(19,29,'CoraBeckett','Female','Necklace'),

(20,30,'Ella Callum','Female','Dress');

5) **Create table Product.**

create table Product(

ProductId int Primary Key,

ProdName varchar(40),

ProductPrice int,

ManufacturingDate datetime,

Usebeforedate datetime,

BrandId int,

TypeId int),

CONSTRAINT fk\_brand FOREIGN KEY(BrandId) REFERENCES Brand(BrandId),

CONSTRAINT fk\_type FOREIGN KEY(TypeId) REFERENCES Type(TypeId));

**Inserting Values into Product:**

insert into Product(ProductId, ProdName, ProductPrice, ManufacturingDate, Usebeforedate, BrandId, TypeId)

values(1,'Foundation',1299,'2021-08-31 04:30:00','2026-09-06 12:00:00',1,2),

(2,'Primer',899,'2021-09-17 00:15:00','2025-09-07 12:00:00',7,5),

(3,'Concealer',599,'2021-10-01 14:28:00','2027-11-05 12:00:00',29,3),

(4,'Eyeliner',499,'2021-10-07 11:22:00','2028-09-12 12:00:00',4,4),

(5,'Mascara',1300,'2021-10-02 10:45:00','2030-11-09 12:00:00',29,3),

(6,'Blush',2549,'2021-10-10 17:16:00','2024-12-05 12:00:00',30,1),

(7,'Highlighter',699,'2021-10-03 15:57:00','2029-05-01 12:00:00',14,5),

(8,'Lipstick',1300,'2021-10-09 10:43:00','2026-08-02 12:00:00',17,2),

(9,'CC Cream',400,'2021-10-07 13:19:00','2027-05-05 12:00:00',19,3),

(10,'Eyeshadow',1500,'2021-10-15 18:55:00','2026-04-05 12:00:00',20,4),

(11,'Lip Gloss',1300,'2021-10-09 08:32:00','2027-02-14 12:00:00',22,5),

(12,'Palette', 2000,'2021-10-14 08:17:00','2025-06-08 12:00:00',26,1),

(13,'Setting Spray',799,'2021-10-09 15:48:00','2028-07-07 12:00:00',4,2),

(14,'Bronzer',1200,'2021-10-21 10:51:00','2029-10-10 12:00:00',5,4),

(15,'Contour',1500,'2021-10-10 19:55:00','2040-12-12 12:00:00',6,5),

(16,'Face Powder',300,'2021-10-15 09:20:00','2034-07-05 12:00:00',7,3),

(17,'Moisturizer',799,'2021-10-14 10:25:00','2027-07-05 12:00:00',7,1),

(18,'Eyebrow pencil',599,'2021-10-14 12:52:00','2030-06-06 12:00:00',8,3),

(19,'Sunscreen',1500,'2021-10-16 08:53:00','2050-11-19 12:00:00',15,4),

(20,'Face Serums',1600,'2021-10-29 18:47:00','2029-12-17 12:00:00',16,3),

(21,'Cleansers',2000,'2021-10-24 10:50:00','2030-04-09 12:00:00',17,2),

(22,'Bathing Soaps',1800,'2021-11-05 18:19:00','2045-12-09 12:00:00',18,1),

(23,'Deodorants',1900,'2021-10-24 13:48:00','2030-09-04 12:00:00',19,5),

(24,'Shampoo',2100,'2021-10-28 19:33:00','2026-03-04 12:00:00',25,2);

6) **Create table Transaction.**

Create table Transaction (

TransactionId int primary key,

CustomerId int,

ProductId int,

ProductPrice int,

ProductName varchar(30),

CONSTRAINT fk\_CustomerId FOREIGN KEY(CustomerId) REFERENCES Customer(CustomerId),

CONSTRAINT fk\_ProductId FOREIGN KEY(ProductId) REFERENCES Product(ProductId));

**Inserting Values into Transaction:**

insert into Transaction( TransactionId, CustomerId,ProductId,ProductPrice,ProductName)

values(1,2,23,1900,'Deodorants'),

(2,49,21,2000,'Cleansers'),

(3,45,20,1600,'Face Serums'),

(4,44,19,1500,'Sunscreen'),

(5,50,6,2549,'Blush'),

(6,23,5,1300,'Mascara'),

(7,26,7,699,'Highlighter'),

(8,44,2,899,'Primer'),

(9,11,8,1300,'Lipstick'),

(10,12,15,1500,'Contour'),

(11,13,18,599,'Eyebrow pencil'),

(12,14,13,799,'Setting Spray'),

(13,15,22,1800,'Bathing Soaps'),

(14,16,20, 1600,'Face Serums'),

(15,40,24,2100,'Shampoo'),

(16,17,20,1600,'Face Serums'),

(17,18,12,2000,'Palette'),

(18,19,11,1300,'Lip Gloss'),

(19,20,9,400,'CC Cream'),

(20,21,8,1300,'Lipstick'),

(21,22,16,300,'Face Powder'),

(22,31,10,1500,'Eyeshadow'),

(23,32,11,1300,'Lip Gloss'),

(24,33,21,2000,'Cleansers'),

(25,34,7,699,'Highlighter'),

(26,35,20,1600,'Face Serums'),

(27,36,3,599,'Concealer'),

(28,37,14,1200,'Bronzer'),

(29,38,15,1500,'Contour'),

(30,39,6,2549,'Blush'),

(31,40,18,599,'Eyebrow pencil'),

(32,41,8,1300,'Lipstick'),

(33,42,14,1200,'Bronzer'),

(34,43,23,1900,'Deodorants'),

(35,44,3,599,'Concealer'),

(36,45,15,1500,'Contour'),

(37,46,8,1300,'Lipstick'),

(38,47,16,300,'Face Powder'),

(39,48,1,1299,'Foundation'),

(40,39,3,599,'Concealer'),

(41,40,17,799,'Moisturizer'),

(42,9,3,599,'Concealer'),

(43,10,19,1500,'Sunscreen'),

(44,11,24,2100,'Shampoo'),

(45,12,13,799,'Setting Spray'),

(46,33,13,799,'Setting Spray'),

(47,38,14,1200,'Bronzer'),

(48,46,16,300,'Face Powder'),

(49,37,8,1300,'Lipstick'),

(50,4,9,400,'CC Cream'),

(51,45,21,2000,'Cleansers'),

(52,46,4,499,'Eyeliner'),

(53,34,4,499,'Eyeliner'),

(54,23,6,2549,'Blush'),

(55,22,9,400,'CC Cream'),

(56,37,12,2000,'Palette'),

(57,23,5,1300,'Mascara'),

(58,6,17,799,'Moisturizer'),

(59,45,7,699,'Highlighter'),

(60,12,14,1200,'Bronzer');

**QUERIES:**

***1.Select the Product with the highest Price.***

***select ProductPrice,ProdName from Product where ProductPrice in (select max(ProductPrice) from Product);***

***Output:***

|  |  |
| --- | --- |
| ***ProductPrice*** | ***ProdName*** |
| ***2549*** | ***Blush*** |

***2.Display the names of the Customers whos names are starting with H.***

***Select concat(FirstName,' ',LastName) as Name from Customer where FirstName like "H%";***

***Output:***

|  |
| --- |
| ***Name*** |
| ***Haroid Simmons*** |
| ***Hunter Sanders*** |
| ***Hector Bailey*** |

***3. select the product with lowest price.***

***select ProductPrice, ProdName from Product where ProductPrice in (select min(ProductPrice) from Product);***

***Output:***

|  |  |
| --- | --- |
| ***ProductPrice*** | ***ProdName*** |
| ***300*** | ***Face Powder*** |

***4. Display ProductId, Name, Price and Manufacturing date of Product whos Manufacturing date is after 2020-08-09 12:00:00.***

***select ProductId, ProdName, ProductPrice,ManufacturingDate from Product where ManufacturingDate > '2020-08-09 12:00:00';***

***Output:***

|  |  |  |  |
| --- | --- | --- | --- |
| ***ProductId*** | ***ProdName*** | ***ProductPrice*** | ***ManufacturingDate*** |
| ***1*** | ***Foundation*** | ***1299*** | ***31-08-2021 4.30*** |
| ***2*** | ***Primer*** | ***899*** | ***17-09-2021 0.15*** |
| ***3*** | ***Concealer*** | ***599*** | ***01-10-2021 14.28*** |
| ***4*** | ***Eyeliner*** | ***499*** | ***07-10-2021 11.22*** |
| ***5*** | ***Mascara*** | ***1300*** | ***02-10-2021 10.45*** |
| ***6*** | ***Blush*** | ***2549*** | ***10-10-2021 17.16*** |
| ***7*** | ***Highlighter*** | ***699*** | ***03-10-2021 15.57*** |
| ***8*** | ***Lipstick*** | ***1300*** | ***09-10-2021 10.43*** |
| ***9*** | ***CC Cream*** | ***400*** | ***07-10-2021 13.19*** |
| ***10*** | ***Eyeshadow*** | ***1500*** | ***15-10-2021 18.55*** |
| ***11*** | ***Lip Gloss*** | ***1300*** | ***09-10-2021 8.32*** |
| ***12*** | ***Palette*** | ***2000*** | ***14-10-2021 8.17*** |
| ***13*** | ***Setting Spray*** | ***799*** | ***09-10-2021 15.48*** |
| ***14*** | ***Bronzer*** | ***1200*** | ***21-10-2021 10.51*** |
| ***15*** | ***Contour*** | ***1500*** | ***10-10-2021 19.55*** |
| ***16*** | ***Face Powder*** | ***300*** | ***15-10-2021 9.20*** |
| ***17*** | ***Moisturizer*** | ***799*** | ***14-10-2021 10.25*** |
| ***18*** | ***Eyebrow pencil*** | ***599*** | ***14-10-2021 12.52*** |
| ***19*** | ***Sunscreen*** | ***1500*** | ***16-10-2021 8.53*** |
| ***20*** | ***Face Serums*** | ***1600*** | ***29-10-2021 18.47*** |
| ***21*** | ***Cleansers*** | ***2000*** | ***24-10-2021 10.50*** |
| ***22*** | ***Bathing Soaps*** | ***1800*** | ***05-11-2021 18.19*** |
| ***23*** | ***Deodorants*** | ***1900*** | ***24-10-2021 13.48*** |
| ***24*** | ***Shampoo*** | ***2100*** | ***28-10-2021 19.33*** |

***5. Display the ProductName, Price of the Products whos Price is more than 1000 show the data in arranged column wise manner.***

***select max(ProductPrice) as MaxProductPrice, ProdName from Product group by ProdName having max(ProductPrice)>1000;***

***Output:***

|  |  |
| --- | --- |
| ***MaxProductPrice*** | ***ProdName*** |
| ***1299*** | ***Foundation*** |
| ***1300*** | ***Mascara*** |
| ***2549*** | ***Blush*** |
| ***1300*** | ***Lipstick*** |
| ***1500*** | ***Eyeshadow*** |
| ***1300*** | ***Lip Gloss*** |
| ***2000*** | ***Palette*** |
| ***1200*** | ***Bronzer*** |
| ***1500*** | ***Contour*** |
| ***1500*** | ***Sunscreen*** |
| ***1600*** | ***Face Serums*** |
| ***2000*** | ***Cleansers*** |
| ***1800*** | ***Bathing Soaps*** |
| ***1900*** | ***Deodorants*** |
| ***2100*** | ***Shampoo*** |

***6. Display names, Price, ManufacturingDate of the Products whose name starts with 'C' in descending order of Price.***

***select ProdName, ProductPrice, ManufacturingDate from Product where ProdName like 'C%' order by ProductPrice desc;***

***Output:***

|  |  |  |
| --- | --- | --- |
| ***ProdName*** | ***ProductPrice*** | ***ManufacturingDate*** |
| ***Cleansers*** | ***2000*** | ***24-10-2021 10.50*** |
| ***Contour*** | ***1500*** | ***10-10-2021 19.55*** |
| ***Concealer*** | ***599*** | ***01-10-2021 14.28*** |
| ***CC Cream*** | ***400*** | ***07-10-2021 13.19*** |

***7. Display ProductId, ProdName, productPrice, validity period of all the products.***

***select ProductId, ProdName, ProductPrice, datediff(Usebeforedate,ManufacturingDate) as ValidforDays from Product;***

***Output:***

|  |  |  |  |
| --- | --- | --- | --- |
| ***ProductId*** | ***ProdName*** | ***ProductPrice*** | ***ValidforDays*** |
| ***1*** | ***Foundation*** | ***1299*** | ***1832*** |
| ***2*** | ***Primer*** | ***899*** | ***1451*** |
| ***3*** | ***Concealer*** | ***599*** | ***2226*** |
| ***4*** | ***Eyeliner*** | ***499*** | ***2532*** |
| ***5*** | ***Mascara*** | ***1300*** | ***3325*** |
| ***6*** | ***Blush*** | ***2549*** | ***1152*** |
| ***7*** | ***Highlighter*** | ***699*** | ***2767*** |
| ***8*** | ***Lipstick*** | ***1300*** | ***1758*** |
| ***9*** | ***CC Cream*** | ***400*** | ***2036*** |
| ***10*** | ***Eyeshadow*** | ***1500*** | ***1633*** |
| ***11*** | ***Lip Gloss*** | ***1300*** | ***1954*** |
| ***12*** | ***Palette*** | ***2000*** | ***1333*** |
| ***13*** | ***Setting Spray*** | ***799*** | ***2463*** |
| ***14*** | ***Bronzer*** | ***1200*** | ***2911*** |
| ***15*** | ***Contour*** | ***1500*** | ***7003*** |
| ***16*** | ***Face Powder*** | ***300*** | ***4646*** |
| ***17*** | ***Moisturizer*** | ***799*** | ***2090*** |
| ***18*** | ***Eyebrow pencil*** | ***599*** | ***3157*** |
| ***19*** | ***Sunscreen*** | ***1500*** | ***10626*** |
| ***20*** | ***Face Serums*** | ***1600*** | ***2971*** |
| ***21*** | ***Cleansers*** | ***2000*** | ***3089*** |
| ***22*** | ***Bathing Soaps*** | ***1800*** | ***8800*** |
| ***23*** | ***Deodorants*** | ***1900*** | ***3237*** |
| ***24*** | ***Shampoo*** | ***2100*** | ***1588*** |

***8. Display the Customer names and the number of gifts each one received.***

***select CustName, count(GiftHamper) as Gifts from WomensDaySpecial group by CustName;***

***Output:***

|  |  |
| --- | --- |
| ***CustName*** | ***Gifts*** |
| ***Aidan Butler*** | ***1*** |
| ***Conner Flores*** | ***1*** |
| ***Hunter Sanders*** | ***1*** |
| ***Alberto Bryant*** | ***1*** |
| ***Carlos Patterson*** | ***1*** |
| ***Aaron Jenkins*** | ***1*** |
| ***Paul Ward*** | ***1*** |
| ***Hector Bailey*** | ***1*** |
| ***Adrain Cox*** | ***1*** |
| ***Douglas Evans*** | ***1*** |
| ***Joey Peterson*** | ***1*** |
| ***Charlie Murray*** | ***1*** |
| ***Scott Tucker*** | ***1*** |
| ***Martin Hicks*** | ***1*** |
| ***Tristin Crawford*** | ***1*** |
| ***Amara Atticus*** | ***1*** |
| ***Ava Ashar*** | ***1*** |
| ***Bella Baron*** | ***1*** |
| ***CoraBeckett*** | ***1*** |
| ***Ella Callum*** | ***1*** |

***9.Display the Id, names and ValidityDate of the Products that are worth rs. 499, rs.1300, rs.2549.***

***Select ProductId,ProdName, Usebeforedate From Product where ProductPrice = ANY (Select ProductPrice from Product where ProductPrice in (499,1300,2549));***

***Output:***

|  |  |  |
| --- | --- | --- |
| ***ProductId*** | ***ProdName*** | ***Usebeforedate*** |
| ***4*** | ***Eyeliner*** | ***12-09-2028 12.00*** |
| ***5*** | ***Mascara*** | ***09-11-2030 12.00*** |
| ***6*** | ***Blush*** | ***05-12-2024 12.00*** |
| ***8*** | ***Lipstick*** | ***02-08-2026 12.00*** |
| ***11*** | ***Lip Gloss*** | ***14-02-2027 12.00*** |

***SUBQUERIES:***

***1. Display Price of the third highest costly Product.***

***select max(ProductPrice) from Product where ProductPrice < (select max(ProductPrice) from Product where ProductPrice < (select max(ProductPrice) from Product));***

***Output:***

|  |
| --- |
| ***max(ProductPrice)*** |
| ***2000*** |

***2.Write a query to find the Manufacturing dates and Prices of the Products whose Price is greater than the Price of the Product with ProductId 23.***

***select ProdName,ProductPrice,ManufacturingDate, UsebeforeDate from Product where ProductPrice > (select ProductPrice from product where ProductId = 23);***

***Output:***

|  |  |  |  |
| --- | --- | --- | --- |
| ***ProdName*** | ***ProductPrice*** | ***ManufacturingDate*** | ***UsebeforeDate*** |
| ***Blush*** | ***2549*** | ***10-10-2021 17.16*** | ***05-12-2024 12.00*** |
| ***Palette*** | ***2000*** | ***14-10-2021 8.17*** | ***08-06-2025 12.00*** |
| ***Cleansers*** | ***2000*** | ***24-10-2021 10.50*** | ***09-04-2030 12.00*** |
| ***Shampoo*** | ***2100*** | ***28-10-2021 19.33*** | ***04-03-2026 12.00*** |

***3.Display LastName and Gender of the Customer named Shane.***

***select LastName, Gender from Customer where CustomerId = (select CustomerId from Customer where LastName = 'Matthews');***

***Output:***

|  |  |
| --- | --- |
| ***LastName*** | ***Gender*** |
| ***Matthews*** | ***Male*** |

***4.Display the names, Id, Gender and gifts of Customer Who received same Gift as Aidan Butler and Aaron Jenkins.***

***select CustomerId,CustName, Gender, GiftHamper***

***from WomensDaySpecial***

***where GiftHamper***

***in (select GiftHamper from WomensDaySpecial where CustName in ('Aidan Butler', 'Aaron Jenkins'));***

***Output:***

|  |  |  |  |
| --- | --- | --- | --- |
| ***CustomerId*** | ***CustName*** | ***Gender*** | ***GiftHamper*** |
| ***1*** | ***Aidan Butler*** | ***Female*** | ***Chocolates*** |
| ***10*** | ***Aaron Jenkins*** | ***Female*** | ***crockery set*** |
| ***25*** | ***Tristin Crawford*** | ***Female*** | ***Chocolates*** |
| ***28*** | ***Bella Baron*** | ***Female*** | ***crockery set*** |

***5. Write a query to find the Price of all products whose price is greater than the Price of Product With Product Id 19.***

***select ProdName, ProductPrice, ManufacturingDate from Product where ProductPrice > (select ProductPrice from Product where ProductId = 19);***

***Output:***

|  |  |  |
| --- | --- | --- |
| ***ProdName*** | ***ProductPrice*** | ***ManufacturingDate*** |
| ***Blush*** | ***2549*** | ***10-10-2021 17.16*** |
| ***Palette*** | ***2000*** | ***14-10-2021 8.17*** |
| ***Face Serums*** | ***1600*** | ***29-10-2021 18.47*** |
| ***Cleansers*** | ***2000*** | ***24-10-2021 10.50*** |
| ***Bathing Soaps*** | ***1800*** | ***05-11-2021 18.19*** |
| ***Deodorants*** | ***1900*** | ***24-10-2021 13.48*** |
| ***Shampoo*** | ***2100*** | ***28-10-2021 19.33*** |

***JOINS:***

***1.Display the names of all the customers who have made purchases.***

***select Customer.CustomerId, concat( FirstName,' ',LastName ) as Name***

***from Customer left join transaction***

***on Customer.CustomerId = Transaction.TransactionId where TransactionId is not null;***

***Output:***

|  |  |
| --- | --- |
| ***CustomerId*** | ***Name*** |
| ***1*** | ***Aidan Butler*** |
| ***2*** | ***Haroid Simmons*** |
| ***3*** | ***Conner Flores*** |
| ***4*** | ***Peter Bennett*** |
| ***5*** | ***Hunter Sanders*** |
| ***6*** | ***Eli Hughes*** |
| ***7*** | ***Alberto Bryant*** |
| ***8*** | ***Carlos Patterson*** |
| ***9*** | ***Shane Matthews*** |
| ***10*** | ***Aaron Jenkins*** |
| ***11*** | ***Marlin Watkins*** |
| ***12*** | ***Paul Ward*** |
| ***13*** | ***Ricardo Murphy*** |
| ***14*** | ***Hector Bailey*** |
| ***15*** | ***Alexis Beil*** |
| ***16*** | ***Adrain Cox*** |
| ***17*** | ***Kingston Martinez*** |
| ***18*** | ***Douglas Evans*** |
| ***19*** | ***Geraid Rivera*** |
| ***20*** | ***Joey Peterson*** |
| ***21*** | ***Johnny Gomez*** |
| ***22*** | ***Charlie Murray*** |
| ***23*** | ***Scott Tucker*** |
| ***24*** | ***Martin Hicks*** |
| ***25*** | ***Tristin Crawford*** |
| ***26*** | ***Amara Atticus*** |
| ***27*** | ***Ava Asher*** |
| ***28*** | ***Bella Baron*** |
| ***29*** | ***Cora Beckett*** |
| ***30*** | ***Ella Callum*** |
| ***31*** | ***Evie Carson*** |
| ***32*** | ***Evelyn Colt*** |
| ***33*** | ***Freya Declan*** |
| ***34*** | ***Grace Felix*** |
| ***35*** | ***Iris George*** |
| ***36*** | ***Jane Graham*** |
| ***37*** | ***Katherine Henry*** |
| ***38*** | ***Layla Jasper*** |
| ***39*** | ***Lillian Jude*** |
| ***40*** | ***Lucy Kai*** |
| ***41*** | ***Maeve Leo*** |
| ***42*** | ***Margot Luke*** |
| ***43*** | ***Mila Max*** |
| ***44*** | ***Oaklyn Noah*** |
| ***45*** | ***Palmer Owen*** |
| ***46*** | ***Poppy Roman*** |
| ***47*** | ***Reese Samuel*** |
| ***48*** | ***Sadie Sink*** |
| ***49*** | ***Stella Silas*** |
| ***50*** | ***Thea Theo*** |

***2.Display Brand Name, Product Name of only the Products named Foundation, Concealer, Eyeliner with date of Manufacturing performing the suitable join.***

***select BrandName, ProdName, ManufacturingDate***

***from Brand inner join Product***

***on Product.ProductId = Brand.BrandId***

***where ProdName in ('Foundation', 'Concealer',' Mascara','Eyeliner');***

***Output:***

|  |  |  |
| --- | --- | --- |
| ***BrandName*** | ***ProdName*** | ***ManufacturingDate*** |
| ***LoveMe Cosmetics*** | ***Foundation*** | ***31-08-2021 4.30*** |
| ***Eternal Beauty*** | ***Concealer*** | ***01-10-2021 14.28*** |
| ***Pressed*** | ***Eyeliner*** | ***07-10-2021 11.22*** |

***3.Display the Country , Name and Price of Product using the join also the price range should vary somewhere between 500 and 1500.***

***select CountryOfOrigin , ProdName, ProductPrice***

***from Brand right join Product***

***on Brand.BrandId = Product.BrandId***

***where ProductPrice between 500 and 1500;***

***Output:***

|  |  |  |
| --- | --- | --- |
| ***CountryOfOrigin*** | ***ProdName*** | ***ProductPrice*** |
| ***Russia*** | ***Foundation*** | ***1299*** |
| ***America*** | ***Primer*** | ***899*** |
| ***Zambia*** | ***Concealer*** | ***599*** |
| ***Zambia*** | ***Mascara*** | ***1300*** |
| ***Cuba*** | ***Highlighter*** | ***699*** |
| ***Pakistan*** | ***Lipstick*** | ***1300*** |
| ***Romania*** | ***Eyeshadow*** | ***1500*** |
| ***Saudi Arabia*** | ***Lip Gloss*** | ***1300*** |
| ***Argentina*** | ***Setting Spray*** | ***799*** |
| ***Armenia*** | ***Bronzer*** | ***1200*** |
| ***Thailand*** | ***Contour*** | ***1500*** |
| ***America*** | ***Moisturizer*** | ***799*** |
| ***China*** | ***Eyebrow pencil*** | ***599*** |
| ***Brazil*** | ***Sunscreen*** | ***1500*** |

***4.Write a query to find The Name of product and Id of Customers who bought the most expensive product also fetch the product name using suitable join.***

***select Customer.CustomerId, Transaction.TransactionId, Transaction.ProductPrice, Transaction.ProductName***

***from Customer inner join Transaction***

***on Customer.CustomerId = Transaction.CustomerId***

***where ProductPrice = (select max(ProductPrice) from Product);***

***Output:***

|  |  |  |  |
| --- | --- | --- | --- |
| ***CustomerId*** | ***TransactionId*** | ***ProductPrice*** | ***ProductName*** |
| ***50*** | ***5*** | ***2549*** | ***Blush*** |
| ***39*** | ***30*** | ***2549*** | ***Blush*** |
| ***23*** | ***54*** | ***2549*** | ***Blush*** |