USE ModelAGENCY

go

--Create the table for models

CREATE TABLE Model(

Mid INT PRIMARY KEY IDENTITY(1,1),

MName VARCHAR(50),

MSurname VARCHAR(50),

Height INT,

Weight INT,

Nationality VARCHAR(50));

--insert data in the table for models

SET IDENTITY\_INSERT Model ON

INSERT INTO Model(Mid, MName, MSurname, Height, Weight, Nationality)

VALUES (1, 'Jenner', 'Kendall', 180, 59, 'american'),

(2, 'Banks', 'Tyra', 180, 55, 'american'),

(3, 'Kerr', 'Miranda', 178, 57, 'australian'),

(4, 'Lima', 'Adriana', 177, 59, 'brazilian'),

(5, 'Klum', 'Heidi', 177, 55, 'german'),

(6, 'Rocha', 'Coco', 177, 57, 'canadian'),

(7, 'Shayk', 'Irina', 175, 51, 'indian'),

(8, 'Bündchen', 'Gisele', 170, 48, 'german');

SET IDENTITY\_INSERT Model OFF

SELECT \*

FROM Model

--Create the table for contracts

CREATE TABLE Contracts(

Cid INT PRIMARY KEY IDENTITY(1,1),

ManagerName VARCHAR(50),

MoneyOfC INT,

DOfC VARCHAR(50));

--insert data in the table for contracts

SET IDENTITY\_INSERT Contracts ON

INSERT INTO Contracts(Cid, ManagerName, MoneyOfC, DOfC)

VALUES (1, 'Jenner Kris', 120000, '11.10.2019'),

(2, 'Hadid Yolanda', 90000, '24.08.2019'),

(3, 'Hadid Mohamed', 150000, '4.09.2019'),

(4, 'Jenner Robin', 100000, '26.07.2019'),

(5, 'Munteanu Maurice', 80000, '12.09.2018'),

(6, 'Ciobanu Razvan', 120000, '17.03.2019'),

(7, 'April Emily', 180000, '24.08.2019'),

(8, 'Anderson Clara', 60000, '24.08.2019');

SET IDENTITY\_INSERT Contracts OFF

SELECT \*

FROM Contracts

--Create the table for payments

CREATE TABLE Payments(

Pid INT PRIMARY KEY IDENTITY(1,1),

SumP INT,

Mid INT FOREIGN KEY REFERENCES Model(Mid));

--insert data in the table for payments

SET IDENTITY\_INSERT Payments ON

INSERT INTO Payments(Pid, SumP, Mid)

VALUES (1, 65000, 2),

(2, 120000, 1),

(3, 95000, 1),

(4, 80000, 5),

(5, 60000, 3),

(6, 120000, 8),

(7, 60000, 2),

(8, 60000, 7);

SET IDENTITY\_INSERT Payments OFF

SELECT \*

FROM Payments

--Create the table for travel

CREATE TABLE Travel(

Tid INT PRIMARY KEY IDENTITY(1,1),

Flight VARCHAR(50),

Hotel VARCHAR(50),

Mid INT FOREIGN KEY REFERENCES Model(Mid));

----insert data in the table for travel

SET IDENTITY\_INSERT Travel ON

INSERT INTO Travel(Tid, Flight, Hotel, Mid)

VALUES (1, 'London-Tokyo', 'Maddison Blue Hotel', 2),

(2, 'Berlin-California', 'Ramada Hotel', 5),

(3, 'Bucharest-Maldives', 'Ayana Resort', 1),

(4, 'Milano-Istanbul', 'Glamour Hotel Istanbul', 3),

(5, 'Berlin-Canda', 'Diamond Hotel', 2),

(6, 'Milano-Istanbul', 'Kiara Hotel', 8),

(7, 'Rome-New York', 'Grand Hotel', 4),

(8, 'Bucharest-Cluj Napoca', 'Golden Tulip', 1);

SET IDENTITY\_INSERT Travel OFF

SELECT \*

FROM Travel

--Create the table for Model Contract

CREATE TABLE ModelContract(

Mid INT FOREIGN KEY REFERENCES Model(Mid),

Cid INT FOREIGN KEY REFERENCES Contracts(Cid),

CONSTRAINT pk\_ModelContract PRIMARY KEY(Mid,Cid));

----insert data in the table for Model-Contract

INSERT INTO ModelContract(Mid, Cid)

VALUES (1, 2),

(2, 2),

(3, 1),

(5, 6),

(6, 5),

(7, 8),

(8, 2);

SELECT \*

FROM ModelContract

--Create the table for Manager

CREATE TABLE Manager(

MAid INT PRIMARY KEY,

MAName VARCHAR(50),

MASurname VARCHAR(50),

ContractNo INT,

Email VARCHAR(50),

Cid INT FOREIGN KEY REFERENCES Contracts(Cid));

----insert data in the table for Manager

INSERT INTO Manager(MAid, MAName, MASurname, ContractNo, Email, Cid)

VALUES (1, 'Jenner', 'Kris', 1540, 'kris@mramodels.com', 3),

(2, 'Hadid', 'Yolanda', 987, 'yolanda@mramodels.com', 2),

(3, 'Hadid', 'Mohamed', 2009, 'mohamed@mramodels.com', 1),

(4, 'Tomminson', 'Michael', 1599, 'michael@mramodels.com', 8),

(5, 'Adams', 'Kinga', 2080, 'kinga@mramodels.com', 1),

(6, 'Badulescu', 'Raluca', 1540, 'raluca@mramodels.com', 1),

(7, 'Phillip', 'Angele', 455, 'angele@mramodels.com', 5),

(8, 'Salim', 'Guigui', 1540, 'guigui@mramodels.com', 6);

SELECT \*

FROM Manager

--Create the table for team

CREATE TABLE Team(

Teamid INT PRIMARY KEY,

Photographer VARCHAR(50),

MakeUpArtist VARCHAR(50),

HairStylist VARCHAR(50),

Designer VARCHAR(50),

Tid INT FOREIGN KEY REFERENCES Travel(Tid));

------insert data in the table for Team

INSERT INTO Team(Teamid, Photographer, MakeUpArtist, HairStylist, Designer, Tid)

VALUES (1, 'Camila Falquez', 'Ioana Stratulat', 'Sorin Stratulat', 'Dana Budeanu', 4),

(2, 'Nadine Ijewere', 'Pat McGrath ', 'Amy Baugh', 'Pyer Moss', 1),

(3, 'Zev Hoover', 'Bobbie Brown', 'Elizabeth Faye', 'Chakshyn', 2),

(4, 'Tom Johnson', 'Hung Vanngo ', 'David Mallett', 'Maison Valentino', 2),

(5, 'Alecsandra Raluca Dragoi', 'Patrick Ta’s', 'Ted Gibson', 'Coco Chanel', 8),

(6, 'Nicholas Scarpinato', 'Hrush Achemyan', 'Serge Normant', 'Phillipe Plain', 5),

(7, 'Oliver Charles', 'Sir John ', 'Hiro Haraguchi', 'Christian Dior', 3),

(8, 'Rachel Baran', 'Samia Ahamd', 'Tracey Cunningham', 'Michael Kors', 6);

SELECT \*

FROM Team

--updates the surname that starts with K

SELECT \*

FROM Model

UPDATE Model

SET MSurname = 'Kylie'

WHERE MSurname LIKE 'K%'

SELECT \*

FROM Model

--updates contracts that has the given date

SELECT \*

FROM Contracts

--update the manager name

UPDATE Contracts

SET ManagerName = 'Jenner Robin'

WHERE DOfC='11.10.2019' AND ManagerName IS NOT NULL

SELECT \*

FROM Contracts

--deletes the contract that has the given date

SELECT \*

FROM Contracts

DELETE FROM Contracts

WHERE DOfC = '26.07.2019'

SELECT \*

FROM Contracts

SELECT \*

FROM Model

--union between models that start with A and have 177cm

SELECT \*

FROM Model

WHERE MName LIKE 'A%'

UNION

SELECT \*

FROM Model

WHERE Height=177

SELECT \*

FROM Payments

--union between payments that have the value bigger thank 100k and the id 1

SELECT \*

FROM Payments

WHERE SumP>100000

UNION

SELECT \*

FROM Payments

WHERE Mid=1

SELECT \*

FROM Model

--intersection between models that have the name

SELECT m1.MName

FROM Model m1

WHERE MName LIKE 'K%'

INTERSECT

SELECT m2.MName

FROM Model m2

WHERE Height =177

ORDER BY m1.MName ASC

SELECT \*

FROM Model

--except the models that have the name starting with 'M' and 57kg

SELECT m1.MSurname

FROM Model m1

WHERE MSurname LIKE 'M'

EXCEPT

SELECT m2.MSurname

FROM Model m2

WHERE Weight=57

ORDER BY m1.MSurname DESC

SELECT \*

FROM Model

--INNER JOIN

SELECT \*

FROM Model m

INNER JOIN Payments p ON m.Mid = p.Mid

INNER JOIN Travel t ON m.Mid = t.Mid

--RIGHT JOIN

SELECT \*

FROM Model m

RIGHT OUTER JOIN

Payments p ON m.Mid = p.Mid

--LEFT JOIN

SELECT \*

FROM Model m

LEFT OUTER JOIN

Payments P on m.Mid = p.Mid

--FULL JOIN

SELECT \*

FROM Model m

FULL OUTER JOIN

Payments p ON m.Mid = p.Mid

SELECT \*

FROM Manager

--IN

--models that have the traveling costs bigger than 95000

SELECT p.Mid, p.SumP

FROM Payments p

WHERE SumP > 95000 and p.Mid IN (SELECT t.Mid FROM Travel t)

--EXISTS

--models that have the traveling costs bigger than 95000

SELECT p.Mid, p.SumP

FROM Payments p

WHERE SumP > 95000 and EXISTS (SELECT \*

FROM Travel t

WHERE t.Mid = p.Mid)

--GROUP BY

--the grouping is based on model id

SELECT m.Mid

FROM Model m INNER JOIN Travel t ON m.Mid = t.Mid

GROUP BY m.Mid

--the grouping is based on the sum of the payment, having the condition that the sum is smaller than 100000

SELECT SumP as 'Total sum'

FROM Payments

GROUP BY SumP

HAVING MIN(SumP) < 100000

--the grouping is based on model nationality counting 2

SELECT m.Nationality, COUNT(\*) AS 'NrOfModels'

FROM Model AS m

GROUP BY m.Nationality

HAVING COUNT(\*) >=2

--DISTINCT

--select all unique models that went abroad

SELECT DISTINCT t.Mid

FROM Travel t

--ORDER BY

--the ordering is ascendent based on the no of contract

SELECT ma.MAid, ma.MAName, ma.MASurname, ma.ContractNo, ma.Email, ma.Cid

FROM Manager ma

ORDER BY ContractNo ASC

--the ordering is descendent for the whole team, based on the Travel id

SELECT tm.Teamid, tm.Photographer, tm.MakeUpArtist, tm.HairStylist, tm.Designer, tm.Tid

FROM Team tm

ORDER BY Tid DESC

--TOP

--gives the top of the biggest sums

SELECT TOP 3 SumP

FROM Payments