DROP TABLE Member\_Information CASCADE CONSTRAINTS;

DROP TABLE Project\_Information CASCADE CONSTRAINTS;

DROP TABLE Product\_Information CASCADE CONSTRAINTS;

DROP TABLE Payment\_Information CASCADE CONSTRAINTS;

CREATE TABLE Project\_Information (Project\_id number primary key, Project\_Type varchar2(20), Location varchar2(20));

CREATE TABLE Member\_Information (Member\_id number, First\_name varchar2(20), Last\_Name varchar2(20), Member\_Type varchar2(20), Depertment varchar2(20), Email varchar2(20), Phone\_Number number, Project\_id number, primary key(Member\_id), foreign key(Project\_id) references Project\_Information(Project\_id));

CREATE TABLE Product\_Information (Product\_id number, Product\_Name varchar2(20), Growing\_Cost number, Selling\_Price number, Project\_id number, primary key(Product\_id), foreign key(Project\_id) references Project\_Information(Project\_id));

CREATE TABLE Payment\_Information(Order\_id number, Order\_Amount number, Order\_Date date, Product\_id number, Project\_id number, primary key(Order\_id), foreign key(Product\_id) references Product\_Information(Product\_id), foreign key (Project\_id) references Project\_Information(Project\_id));

INSERT INTO Project\_Information VALUES (01,'Herbs Garden','C Block Balcony');

INSERT INTO Project\_Information VALUES (02,'Strawberry Garden','D Block Balcony');

INSERT INTO Project\_Information VALUES (03,'Vertical Launge','Cafeteria');

INSERT INTO Project\_Information VALUES (04,'Flower Garden','KICT Premises');

INSERT INTO Project\_Information VALUES (05,'Green House','E Block Balcony');

INSERT INTO Project\_Information VALUES (06,'Vegetable Garden','KICT Rooftop');

INSERT INTO Project\_Information VALUES (07,'Edible Greenwall','General Office');

INSERT INTO Project\_Information VALUES (08,'Container Garden','B Block 2ndFloor');

INSERT INTO Project\_Information VALUES (09,'Strawberry Garden','Near Bus Stop');

INSERT INTO Member\_Information VALUES (100,'Potol','Tula','Student','BIT','pt@live.iium.edu.my', 0938273, 06);

INSERT INTO Member\_Information VALUES (101,'Hitasha','Khan','Student','BIT','hk@live.iium.edu.my', 0936573, 05);

INSERT INTO Member\_Information VALUES (102,'Roddur','Roy','Staff','Academic','rr@live.iium.edu.my', 1136573, 01);

INSERT INTO Member\_Information VALUES (103,'Kacchi','Miah','Staff','Finance','km@live.iium.edu.my', 1139993, 02);

INSERT INTO Member\_Information VALUES (104,'Halar','Hala','Student','BCS','hh@live.iium.edu.my', 1137793, 05);

INSERT INTO Member\_Information VALUES (105,'Dhur','Beta','Staff','Transportation','db@live.iium.edu.my', 1130093, 07);

INSERT INTO Member\_Information VALUES (106,'Thaba','Dimu','Student','BCS','td@live.iium.edu.my', 0130093, 06);

INSERT INTO Member\_Information VALUES (107,'Vavago','Vava','Student','BIT','vv@live.iium.edu.my', 0130223, 01);

INSERT INTO Member\_Information VALUES (108,'Nube','Pillar','Student','BCS','np@live.iium.edu.my', 0136623, 02);

INSERT INTO Member\_Information VALUES (109,'Mir','Jafor','Staff','Finance','mj@live.iium.edu.my', 0130023, 03);

INSERT INTO Member\_Information VALUES (110,'Bodmaish','Pola','Staff','Student Affair','bp@live.iium.edu.my', 6930023, 04);

INSERT INTO Member\_Information VALUES (111,'Dolund','Modi','Student','BCS','dm@live.iium.edu.my', 6930993, 08);

INSERT INTO Member\_Information VALUES (112,'Melania','Gandhi','Student','BIT','mg@live.iium.edu.my', 6931193, 03);

INSERT INTO Member\_Information VALUES (113,'Akash','Patal','Student','BCS','ap@live.iium.edu.my', 6931003, 02);

INSERT INTO Member\_Information VALUES (114,'Jibon','Moron','Staff','Academic','jm@live.iium.edu.my', 0031003, 06);

INSERT INTO Member\_Information VALUES (115,'Nibba','Nibbi','Staff','Academic','nn@live.iium.edu.my', 0022003, 05);

INSERT INTO Member\_Information VALUES (116,'Juan','Bura','Student','BIT','jb@live.iium.edu.my', 8822003, 04);

INSERT INTO Member\_Information VALUES (117,'Agun','Fagun','Student','BIT','af@live.iium.edu.my', 8865003, 04);

INSERT INTO Member\_Information VALUES (118,'Pothvrosto','Alom','Student','BCS','pa@live.iium.edu.my', 8865223, 06);

INSERT INTO Member\_Information VALUES (119,'Hotasha','Natasha','Student','BCS','hn@live.iium.edu.my', 8865200, 06);

INSERT INTO Member\_Information VALUES (120,'Jama','Jamai','Student','BCS','jj@live.iium.edu.my', 8865110, 07);

INSERT INTO Member\_Information VALUES (121,'Dhisum','Dhisumai','Staff','General Office','dd@live.iium.edu.my', 8665110, 09);

INSERT INTO Member\_Information VALUES (122,'Mogoj','Mostisko','Staff','General Office','mm@live.iium.edu.my', 8661210, 01);

INSERT INTO Member\_Information VALUES (123,'India','Varoot','Student','BCS','iv@live.iium.edu.my', 8661270, 08);

INSERT INTO Member\_Information VALUES (124,'Mokles','Sokles','Student','BCS','ms@live.iium.edu.my', 8832003, 09);

INSERT INTO Member\_Information VALUES (125,'Unnoyoner','Juyar','Student','BIT','uj@live.iium.edu.my', 8811003, 04);

INSERT INTO Member\_Information VALUES (126,'Disitaal','Besamal','Student','BIT','dbe@live.iium.edu.my', 8822003, 08);

INSERT INTO Member\_Information VALUES (127,'Sentii','Khan','Student','BCS','sk@live.iium.edu.my', 8821103, 03);

INSERT INTO Member\_Information VALUES (128,'Mela','Hoise','Staff','Finance','mh@live.iium.edu.my', 6021103, 02);

INSERT INTO Member\_Information VALUES (129,'Eibar','Biday','Student','BCS','eb@live.iium.edu.my', 6044103, 01);

INSERT INTO Member\_Information VALUES (130,'Tada','Baibye','Student','BIT','tb@live.iium.edu.my', 6014103, 09);

INSERT INTO Product\_Information VALUES (500,'Tulip',100,170,04);

INSERT INTO Product\_Information VALUES (501,'Strawberry',300,500,09);

INSERT INTO Product\_Information VALUES (502,'PeaceLily',120,180,04);

INSERT INTO Product\_Information VALUES (503,'Spider Plant',200,320,03);

INSERT INTO Product\_Information VALUES (504,'Broccoli',150,190,06);

INSERT INTO Product\_Information VALUES (505,'Tomato',130,180,06);

INSERT INTO Product\_Information VALUES (506,'Pepper',150,210,06);

INSERT INTO Product\_Information VALUES (507,'African Violet',230,400,03);

INSERT INTO Product\_Information VALUES (508,'Baby Tear',250,500,03);

INSERT INTO Product\_Information VALUES (509,'Lipstick Plant',270,500,03);

INSERT INTO Product\_Information VALUES (510,'Ginseng',80,170,05);

INSERT INTO Product\_Information VALUES (511,'Mashrooms',100,190,05);

INSERT INTO Product\_Information VALUES (512,'Lettuce',90,120,05);

INSERT INTO Product\_Information VALUES (513,'Basil',130,200,01);

INSERT INTO Product\_Information VALUES (514,'Lemon Balm',70,130,01);

INSERT INTO Product\_Information VALUES (515,'Chives',80,130,01);

INSERT INTO Product\_Information VALUES (516,'Orchids',400,900,08);

INSERT INTO Product\_Information VALUES (517,'Mandevillas',200,350,08);

INSERT INTO Product\_Information VALUES (518,'Christmas cactus',100,210,04);

INSERT INTO Product\_Information VALUES (519,'Pineberry',300,550,02);

INSERT INTO Product\_Information VALUES (520,'Strasberry',270,530,02);

INSERT INTO Payment\_Information VALUES (1000,500,to\_date('30-JUN-2020'),501,09);

INSERT INTO Payment\_Information VALUES (1001,180,to\_date('21-JAN-2020'),505,06);

INSERT INTO Payment\_Information VALUES (1002,500,to\_date('22-FEB-2020'),508,03);

INSERT INTO Payment\_Information VALUES (1003,170,to\_date('01-SEP-2020'),510,05);

INSERT INTO Payment\_Information VALUES (1004,400,to\_date('11-AUG-2020'),513,01);

INSERT INTO Payment\_Information VALUES (1005,900,to\_date('23-JUL-2020'),516,08);

INSERT INTO Payment\_Information VALUES (1006,530,to\_date('29-MAR-2020'),520,02);

INSERT INTO Payment\_Information VALUES (1007,550,to\_date('29-MAR-2020'),519,02);

INSERT INTO Payment\_Information VALUES (1008,260,to\_date('12-APR-2020'),515,01);

INSERT INTO Payment\_Information VALUES (1009,190,to\_date('22-OCT-2020'),504,06);

INSERT INTO Payment\_Information VALUES (1010,170,to\_date('27-DEC-2020'),500,04);

INSERT INTO Payment\_Information VALUES (1011,360,to\_date('02-NOV-2020'),502,04);

INSERT INTO Payment\_Information VALUES (1012,630,to\_date('22-MAY-2020'),506,06);

INSERT INTO Payment\_Information VALUES (1013,320,to\_date('10-JUN-2020'),503,03);

INSERT INTO Payment\_Information VALUES (1014,400,to\_date('19-JUL-2020'),507,03);

INSERT INTO Payment\_Information VALUES (1015,190,to\_date('19-JUL-2020'),511,05);

INSERT INTO Payment\_Information VALUES (1016,240,to\_date('13-MAY-2020'),512,05);

INSERT INTO Payment\_Information VALUES (1017,130,to\_date('18-AUG-2020'),514,01);

INSERT INTO Payment\_Information VALUES (1018,350,to\_date('05-OCT-2020'),517,08);

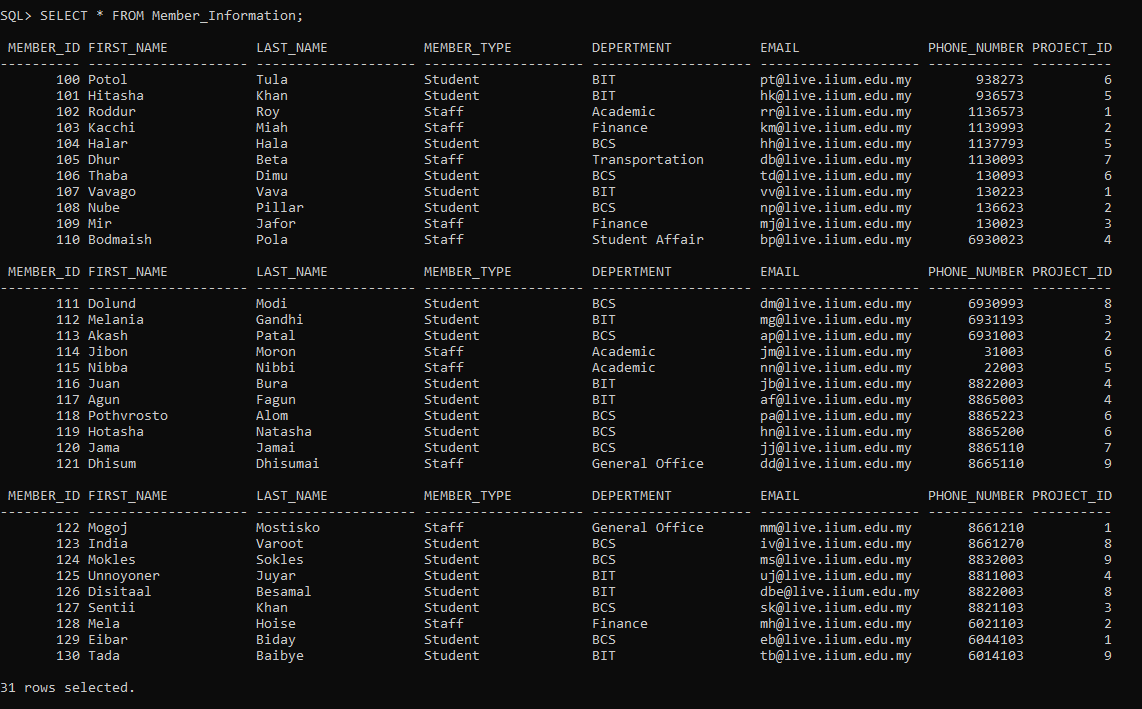
INSERT INTO Payment\_Information VALUES (1019,500,to\_date('25-DEC-2020'),501,09);

INSERT INTO Payment\_Information VALUES (1020,210,to\_date('29-DEC-2020'),506,06);

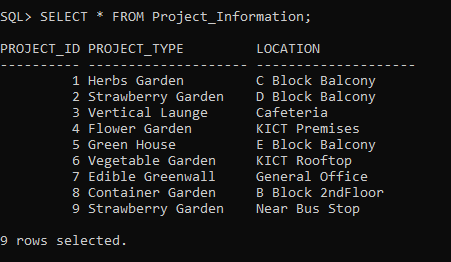
**Queries**

**Select statement:**

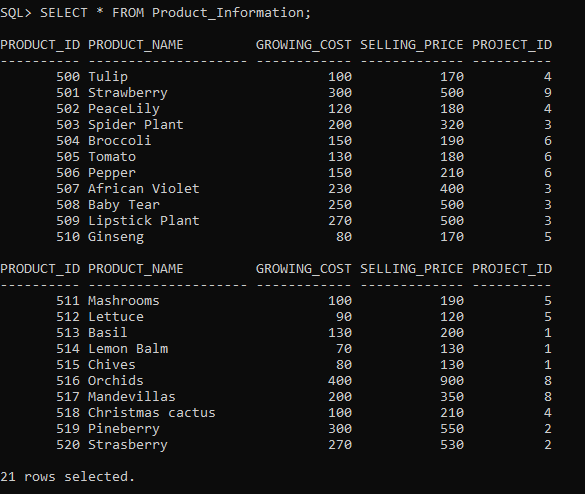
Member information table-



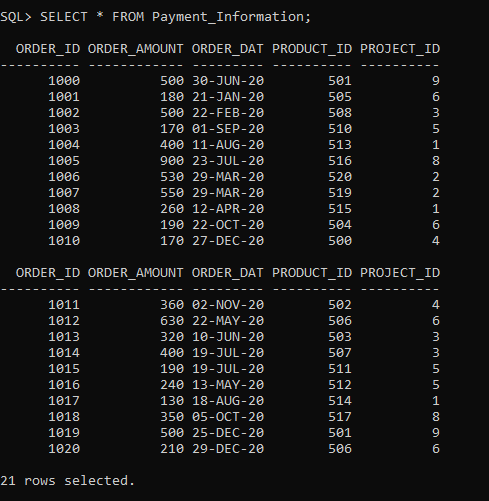
Project information table –



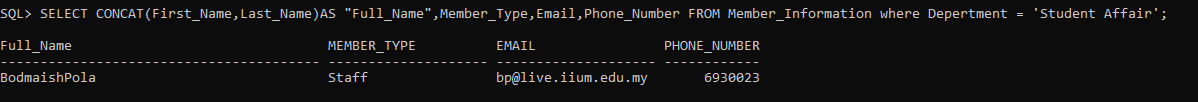
Product information table –



Payment information table –

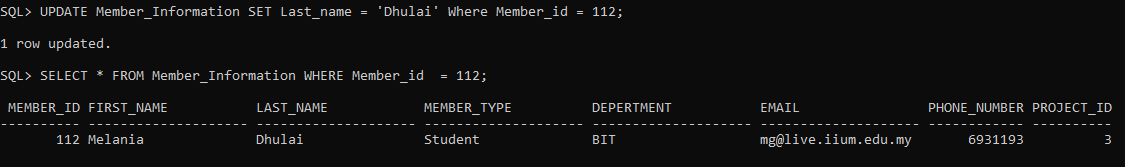


SELECT CONCAT(First\_Name,Last\_Name)AS “Full\_Name”,Member\_Type,Email,Phone\_Number FROM Member\_Information where Depertment = ‘Student Affair’;



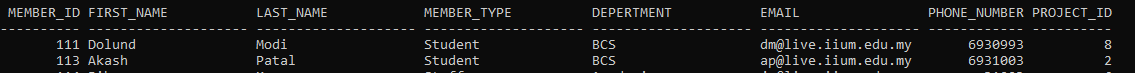
**Update:**

UPDATE Member\_Information SET Last\_name = ‘Dhulai’ Where Member\_id = 112;



**Delete:**

DELETE FROM Member\_Information WHERE First\_Name =’Melania’;



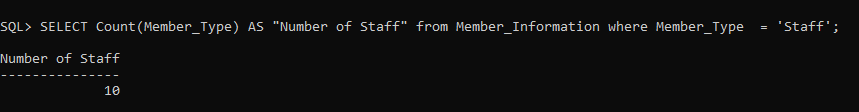
**Insert:**

INSERT INTO Member\_Information VALUES (112,’Melania’,’Trump’,’Student’,’BIT’,’mg@live.iium.edu.my’, 6931193, 03);



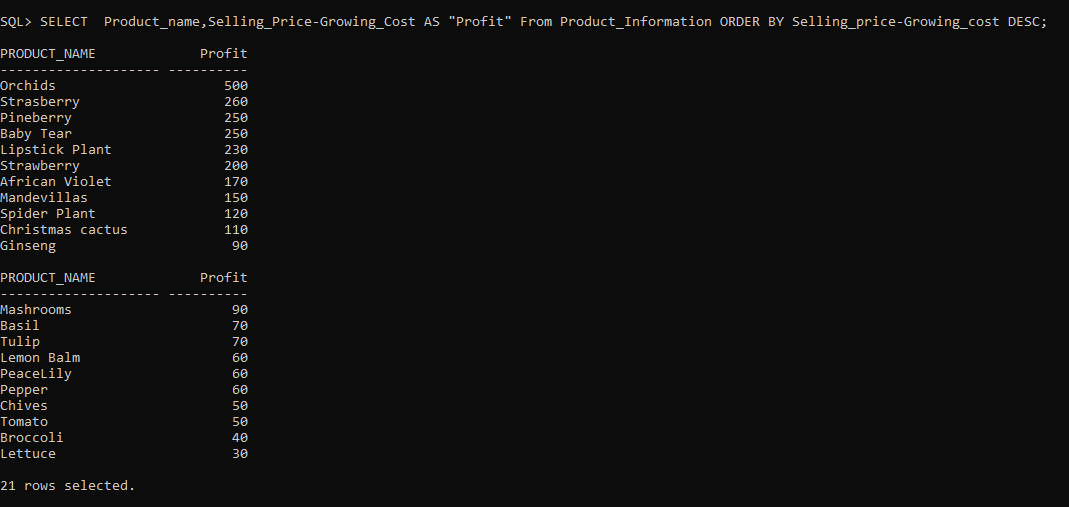
Calculating no of staff in the project -

SELECT Count(Member\_Type) AS "Number of Staff" from Member\_Information where Member\_Type = 'Staff';



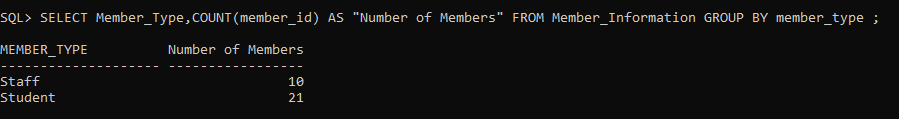
Higher profitable products in descending order –

SELECT Product\_name,Selling\_Price-Growing\_Cost AS "Profit" From Product\_Information ORDER BY Selling\_price-Growing\_cost DESC;



To see how many members in staff and student:

SELECT Member\_Type,COUNT(member\_id) AS "Number of Members" FROM Member\_Information GROUP BY member\_type ;



**Join –**

SELECT First\_Name,Last\_Name,Member\_Type,Depertment FROM Project\_Information, Member\_Information WHERE Project\_Information.Project\_id = Member\_Information.Project\_id and Project\_Type = 'Flower Garden';

SELECT Product\_Name,Project\_Type,Growing\_Cost,Order\_Amount FROM Project\_Information,Product\_Information,Payment\_Information WHERE Project\_Information.project\_id = Product\_information.Project\_id and Product\_Information.Product\_id = Payment\_Information.Product\_id;

SELECT Product\_Name FROM Product\_Information WHERE Product\_id = any(SELECT product\_id FROM Payment\_Information WHERE Order\_Amount>300);

SELECT Project\_Type AS "Top Products of MCO" FROM Project\_Information WHERE Project\_id = any(SELECT Project\_id FROM Payment\_information WHERE Order\_Date Between '01-JUN-2020' AND '30-SEP-2020' AND Order\_Amount>400);

View –

DROP VIEW Complex;

CREATE VIEW Complex AS SELECT Product\_Name,Project\_Type,Growing\_Cost,Order\_Date,Order\_Amount FROM Project\_Information,Product\_Information,Payment\_Information WHERE Project\_Information.project\_id = Product\_information.Project\_id and Product\_Information.Product\_id = Payment\_Information.Product\_id;

SELECT Product\_Name, Project\_Type, Order\_Date,Order\_Amount-Growing\_Cost AS "Profit" FROM Complex Where Order\_Date BETWEEN '01-OCT-2020' AND '31-DEC-2020' ORDER BY Order\_Amount-Growing\_Cost DESC;

**Extra queries –**

SELECT COUNT(Project\_id) from Payment\_Information Group By Project\_id Having Count(Project\_id)>2;