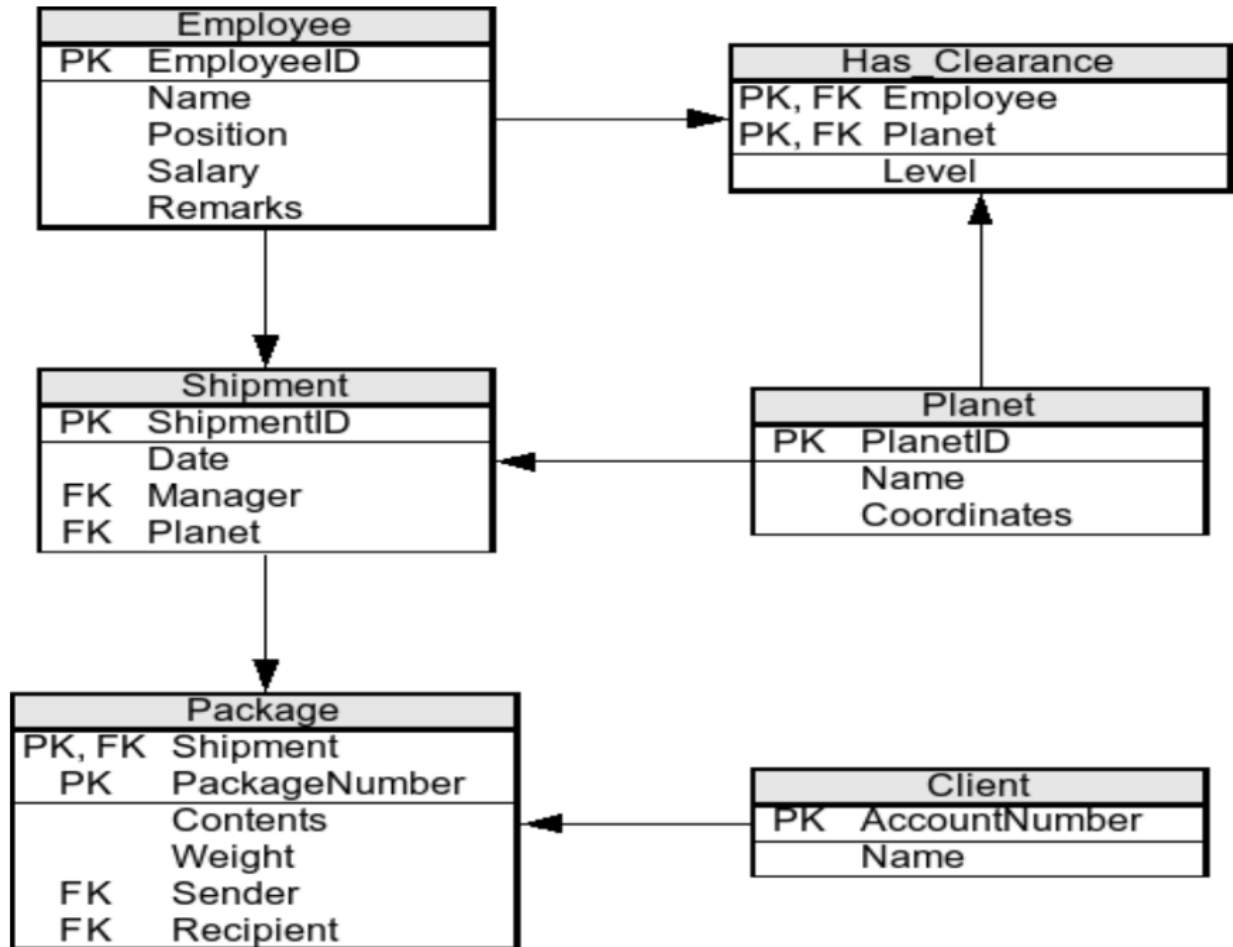


QUESTION-



CODE;-

```
1 • Create database dbmslab7;
2 • use dbmslab7;
3
4 • ⊖ CREATE TABLE Employee (
5     EmployeeID INTEGER PRIMARY KEY,
6     Name VARCHAR(255) NOT NULL,
7     Position VARCHAR(255) NOT NULL,
8     Salary REAL NOT NULL,
9     Remarks VARCHAR(255)
10 ) ENGINE = InnoDB;
11
12 • ⊖ CREATE TABLE Planet (
13     PlanetID INTEGER PRIMARY KEY,
14     Name VARCHAR(255) NOT NULL,
15     Coordinates REAL NOT NULL
16 ) ENGINE = InnoDB;
17
18 • ⊖ CREATE TABLE Shipment (
19     ShipmentID INTEGER PRIMARY KEY,
20     Date DATE,
21     Manager INTEGER NOT NULL,
22     Planet INTEGER NOT NULL,
23     FOREIGN KEY (Manager) REFERENCES Employee(EmployeeID),
24     FOREIGN KEY (Planet) REFERENCES Planet(PlanetID)
25 ) ENGINE = InnoDB;
26
27 • ⊖ CREATE TABLE Has_Clearance (
28     Employee INTEGER NOT NULL,
29     Planet INTEGER NOT NULL,
30     Level INTEGER NOT NULL,
31     PRIMARY KEY(Employee, Planet),
```

```

31     PRIMARY KEY(Employee, Planet),
32     FOREIGN KEY (Employee) REFERENCES Employee(EmployeeID),
33     FOREIGN KEY (Planet) REFERENCES Planet(PlanetID)
34 ) ENGINE = InnoDB;
35
36 • CREATE TABLE Client (
37     AccountNumber INTEGER PRIMARY KEY,
38     Name VARCHAR(255) NOT NULL
39 ) ENGINE = InnoDB;
40
41 • CREATE TABLE Package (
42     Shipment INTEGER NOT NULL,
43     PackageNumber INTEGER NOT NULL,
44     Contents VARCHAR(255) NOT NULL,
45     Weight REAL NOT NULL,
46     Sender INTEGER NOT NULL,
47     Recipient INTEGER NOT NULL,
48     PRIMARY KEY(Shipment, PackageNumber),
49     FOREIGN KEY (Shipment) REFERENCES Shipment(ShipmentID),
50     FOREIGN KEY (Sender) REFERENCES Client(AccountNumber),
51     FOREIGN KEY (Recipient) REFERENCES Client(AccountNumber)
52 ) ENGINE = InnoDB;
53
54 • INSERT INTO Employee VALUES(1, 'Phillip J. Fry', 'Delivery boy', 7500.0, 'Not to be confused with the Philip J. Fry from Hovering Squid World
55 • INSERT INTO Employee VALUES(2, 'Rocky', 'Captain', 10000.0, NULL);
56 • INSERT INTO Employee VALUES(3, 'Bender Bending Rodriguez', 'Robot', 7500.0, NULL);
57 • INSERT INTO Employee VALUES(4, 'Manav', 'CEO', 20000.0, NULL);
58 • INSERT INTO Employee VALUES(5, 'John A. Zoidberg', 'Physician', 25.0, NULL);
59 • INSERT INTO Employee VALUES(6, 'Gerard', 'Intern', 5000.0, NULL);
60 • INSERT INTO Employee VALUES(7, 'Hermes Conrad', 'Bureaucrat', 10000.0, NULL);
61 • INSERT INTO Employee VALUES(8, 'Scruffy Scruffington', 'Janitor', 5000.0, NULL);

```

```

64 • INSERT INTO Client VALUES(2, "Al Gore's Head");
65 • INSERT INTO Client VALUES(3, 'Barbados Slim');
66 • INSERT INTO Client VALUES(4, 'Ogden Wernstrom');
67 • INSERT INTO Client VALUES(5, 'Leo Wong');
68 • INSERT INTO Client VALUES(6, 'Lrrr');
69 • INSERT INTO Client VALUES(7, 'John Zoidberg');
70 • INSERT INTO Client VALUES(8, 'John Zoidfarb');
71 • INSERT INTO Client VALUES(9, 'Mor');
72 • INSERT INTO Client VALUES(10, 'Judge John Whitey');
73 • INSERT INTO Client VALUES(11, 'Calculon');
74
75
76
77 • INSERT INTO Planet VALUES(1, 'Omicron Persei 8', 89475345.3545);
78 • INSERT INTO Planet VALUES(5001, 'Decapod X', 65498463216.3466);
79 • INSERT INTO Planet VALUES(3, 'Morag', 32435021.65468);
80 • INSERT INTO Planet VALUES(4, 'Omega III', 98432121.5464);
81 • INSERT INTO Planet VALUES(5, 'Tarantulon VI', 849842198.354654);
82 • INSERT INTO Planet VALUES(6, 'Cannibalon', 654321987.21654);
83 • INSERT INTO Planet VALUES(7, 'DogDoo VII', 65498721354.688);
84 • INSERT INTO Planet VALUES(8, 'Vormir', 6543219894.1654);
85 • INSERT INTO Planet VALUES(9, 'Amazonia', 65432135979.6547);
86
87 • INSERT INTO Has_Clearance VALUES(1, 1, 5001);
88 • INSERT INTO Has_Clearance VALUES(1, 5001, 3);
89 • INSERT INTO Has_Clearance VALUES(2, 3, 5001);
90 • INSERT INTO Has_Clearance VALUES(2, 4, 4);
91 • INSERT INTO Has_Clearance VALUES(3, 5, 5001);
92 • INSERT INTO Has_Clearance VALUES(3, 6, 4);
93 • INSERT INTO Has_Clearance VALUES(4, 7, 1);
94
95 • INSERT INTO Shipment VALUES(1, '3004/05/11', 1, 1);
96 • INSERT INTO Shipment VALUES(2, '2022/05/12', 1, 5001);
97 • INSERT INTO Shipment VALUES(3, NULL, 2, 3);
98 • INSERT INTO Shipment VALUES(4, NULL, 2, 4);
99 • INSERT INTO Shipment VALUES(5, NULL, 7, 5);

```

```

101 • INSERT INTO Package VALUES(1, 1, 'Undeclared', 24.6, 1, 2);
102 • INSERT INTO Package VALUES(2, 1, 'Undeclared', 10.0, 2, 3);
103 • INSERT INTO Package VALUES(2, 2, 'A bucket of krill', 1.5, 8, 7);
104 • INSERT INTO Package VALUES(3, 1, 'Undeclared', 15.0, 3, 4);
105 • INSERT INTO Package VALUES(3, 2, 'Undeclared', 3.0, 5, 1);
106 • INSERT INTO Package VALUES(3, 3, 'Undeclared', 7.0, 2, 3);
107 • INSERT INTO Package VALUES(4, 1, 'Undeclared', 5.0, 4, 5);
108 • INSERT INTO Package VALUES(4, 2, 'Undeclared', 27.0, 1, 2);
109 • INSERT INTO Package VALUES(5, 1, 'Undeclared', 100.0, 5, 1);
110

```

7.1 Who received a 1.5kg package?

-- For example: The result is "Al Gore's Head".

```

112 • SELECT Client.Name
113      FROM Client JOIN Package
114           ON Client.AccountNumber = Package.Recipient
115      WHERE Package.weight = 1.5;

```

Result Grid		Filter Rows:	Export:	Wrap Cell Co
	Name			
▶	John Zoidberg			

7.2 What is the total weight of all the packages that has been sent by "Gerard"?

```

116 • SELECT SUM(p.weight)
117      FROM Client AS c
118           JOIN Package as P
119           ON c.AccountNumber = p.Sender
120      WHERE c.Name = "Gerard";

```

Result Grid		Filter Rows:	Export:
	SUM(p.weight)		
▶	NULL		

7.3 What is the average of salary of all employees?

```
121 • SELECT AVG(Salary)
122     from Employee;
```

Result Grid		Filter Rows:
	AVG(Salary)	
▶	8128.125	

7.4 What are the coordinates of Planet ID “5001”?

```
123 • SELECT Coordinates from Planet where PlanetID=5001;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Coordinates			
▶	65498463216.3466			

7.5 What are the Contents and Weight of Shipment which took place on 12th October 2022?

```
124 • SELECT Contents, Weight
125     FROM Shipment
126     INNER JOIN Package
127     ON Shipment.ShipmentID = Package.PackageNumber where Date=2022/05/12;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Contents	Weight		

7.6 State the Position and Salary of Employee whose Shipment took place for planet “Morag”.

```
128 • SELECT Position, Salary
129     FROM Employee
130     INNER JOIN Planet
131     ON Employee.EmployeeID = Planet.PlanetID where Planet.Name='Morag';
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Position	Salary		
▶	Robot	7500		

7.7 Please provide the Sender name and Receiver name of the Package which was conducted under Manager name “Manav”?

```
132 • SELECT Sender, Recipient
133 FROM Shipment
134 INNER JOIN Package
135 ON Shipment.ShipmentID = Package.PackageNumber where Shipment.Manager=4 ;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Sender	Recipient		

7.9 Drop the data of packages sent by “Rocky”?

```
138 • delete package from package inner join client on package.sender=client.accountnumber where client.name="ROCKY";
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:



	Shipment	PackageNumber	Contents	Weight	Sender	Recipient
1	1		Undeclared	24.6	1	2
2	1		Undeclared	10	2	3
2	2		A bucket of krill	1.5	8	7
3	1		Undeclared	15	3	4
3	2		Undeclared	3	5	1
3	3		Undeclared	7	2	3
4	1		Undeclared	5	4	5
4	2		Undeclared	27	1	2
5	1		Undeclared	100	5	1
*	NULL	NULL	NULL	NULL	NULL	NULL




package 10



7.10 Update the Coordinates of the planet “Vormir” of your choice (use real data type)?

```
140 • UPDATE Planet SET Coordinates = 65007070770 where Name='Vormir';
141 • Select * From Planet;
```

Result Grid

  Filter Rows:

Edit:   

Export/Import:  

Wrap Cell

PlanetID	Name	Coordinates
1	Omicron Persei 8	89475345.3545
3	Morag	32435021.65468
4	Omega III	98432121.5464
5	Tarantulon VI	849842198.354654
6	Cannibalon	654321987.21654
7	DogDoo VII	65498721354.688
8	Vormir	65007070770
9	Amazonia	65432135979.6547
5001	Decapod X	65498463216.3466
NULL	NULL	NULL

Planet 11