

Patient Assistance Network

(PAN)

Course name: Database Management Systems

Course number: CS 4513-001

Semester and year: Fall-2017

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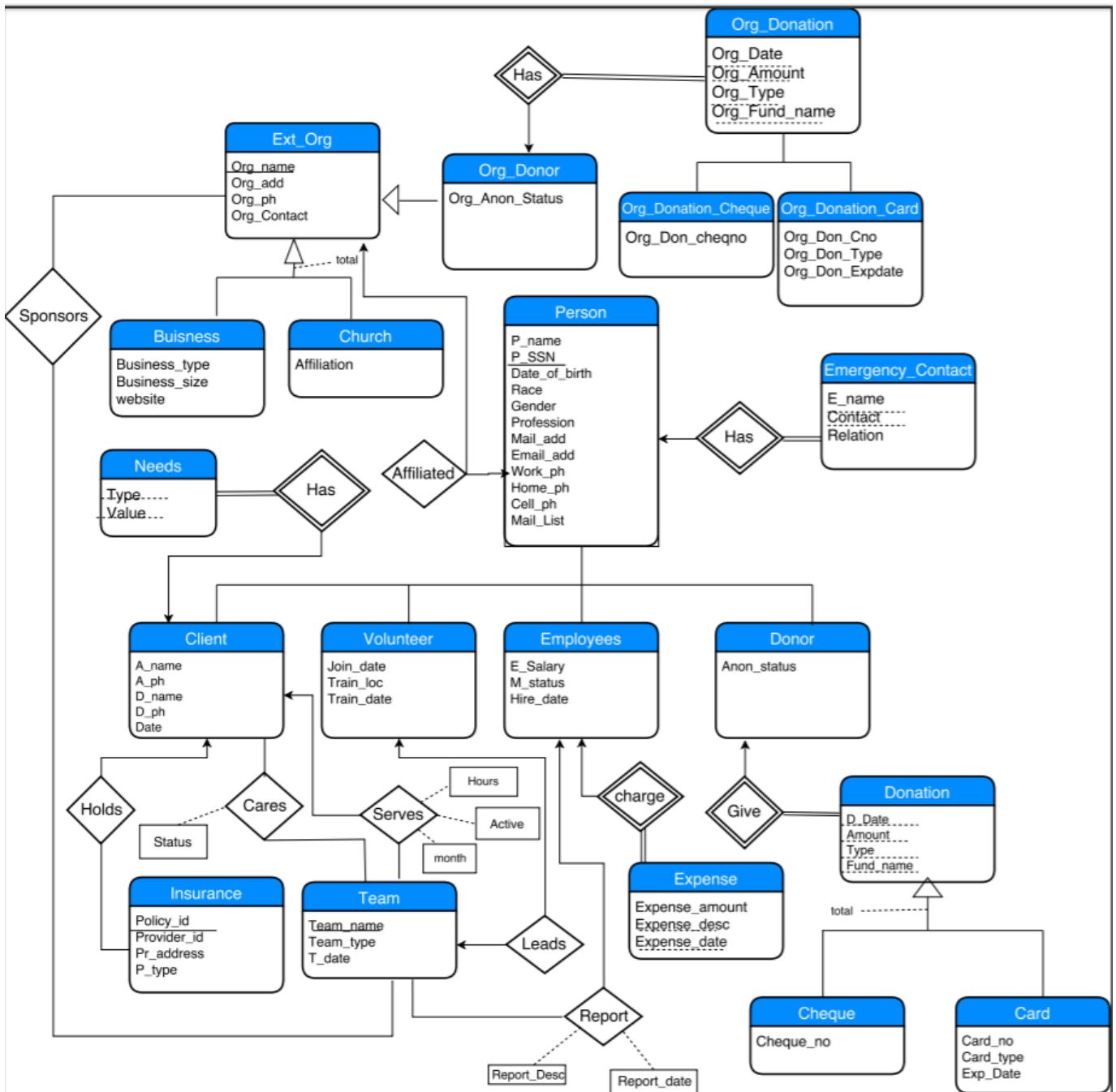
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TASK 1

Task1.2: ER Diagram



Task 1.2: Relational Database Schema

Person(P_SSN, P_Name, Date_of_birth, Race, Gender, Profession, Mail_Add, Email_Add, Home_Ph, Work_Ph, Cell_Ph, Mail_list)

Client(P_SSN, Doc_name, Att_name, Doc_Ph, Att_Ph, C_Date)

Volunteer(P_SSN, Join_Date, Train_Date, Train_Loc)

Employee(P_SSN, E_Salary, M_Status, Hire_Date)

Donor(P_SSN, Anon_Status)

Emergency_Contact(P_SSN, E_Name, Contact, Relation)

Needs(P_SSN, Need_Type, Need_Value)

Team(Team_name, Team_type, T_date,)

Report(Team_name, P_SSN, Report_desc, Report_date)

Leads(P_SSN, Team_name)

Serves(Team_name, P_SSN, Hours, Month_Name, Active)

Expense(P_SSN, Expense_Date, Expense_Desc, Expense_amount)

Cares(P_SSN, Team_name, Status)

Insurance_Policy(P_SSN, Policy_id, Provider_id, Pr_address, P_type)

Cheque(P_SSN, D_Date, Amount, Type, Fund_Name, Cheque_no)

Card(P_SSN, D_Date, Amount, Type, Fund_Name, Card_no, Card_type, Exp_date)

Org_Donors(Org_name, Org_Anon_Status)

Org_Donation_cheq(Org_name, Org_Don_Date, Org_Don_Amount, Org_Don_Type, Org_Don_Fund_name, Org_Don_cheqno)

Org_Donation_card(Org_name, Org_Don_Date, Org_Don_Amount, Org_Don_Type, Org_Don_Fund_name, Org_Don_Cno, Org_Don_Ctype, Org_Don_Expcdate)

Ext_Org(Org_name, Org_Add, Org_ph, Org_Contact)

Business(Org_name, Business_type, Business_size, Website)

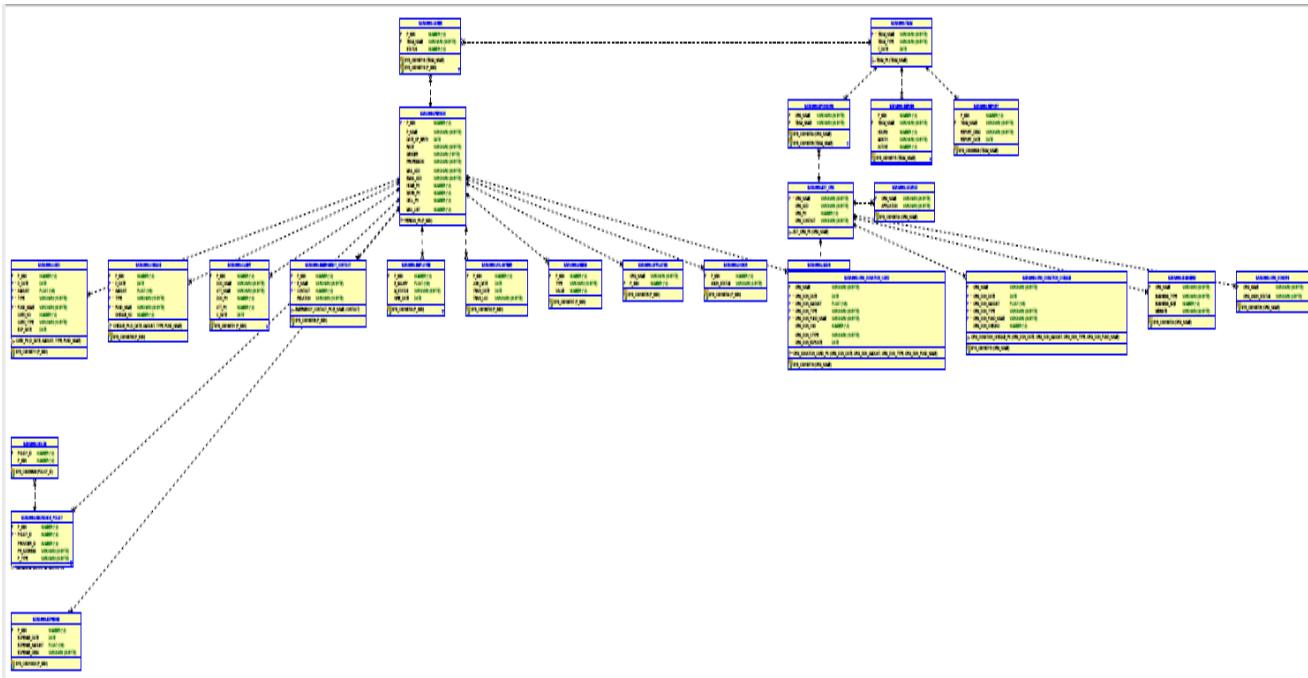
Church(Org_name, Affiliation)

Affiliated(P_SSN, Org_name)

Sponsors(Org_name, Team_name)

TASK 2

Task 2.1: Data Dictionary Diagram



Task 2.2: Data Dictionary Report

All Tables Details

Design Name	Untitled_1
Version Date	19.11.2017 08:34:49
Version Comment	
Model Name	Relational_1

Table Name	SARA0003.AFFILIATED
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	2
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME				VARCHAR (20 BYTE)	LT				
2	P_SSN		F		NUMERIC (*)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188725	PERSON			Y	P_SSN	P_SSN	

Table Name	SARA0003.BUSINESS	
Functional Name		
Abbreviation		
Classification Type Name		
Object Type Name		

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME		F		VARCHAR (20 BYTE)	LT				
2	BUSINESS_TYPE				VARCHAR (20 BYTE)	LT				
3	BUSINESS_SIZE				NUMERIC (*)	LT				
4	WEBSITE				VARCHAR (30 BYTE)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188723	EXT_ORG			Y	ORG_NAME	ORG_NAME	

Table Name	SARA0003.CARD	
Functional Name		
Abbreviation		
Classification Type Name		
Object Type Name		

Number Of Columns	8
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	D_DATE	P		Y	Date (7)	LT				
3	AMOUNT			Y	FLOAT (126)	LT				
4	TYPE	P		Y	VARCHAR (15 BYTE)	LT				
5	FUND_NAME	P		Y	VARCHAR (20 BYTE)	LT				
6	CARD_NO				NUMERIC (*)	LT				
7	CARD_TYPE				VARCHAR (10 BYTE)	LT				
8	EXP_DATE				Date (7)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
CARD_PK	PK				D_DATE	ASC
					AMOUNT	ASC
					TYPE	ASC
					FUND_NAME	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188711	PERSON			Y	P_SSN	P_SSN	

Table Name	SARA0003.CARES
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	3
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	TEAM_NAME		F		VARCHAR (20 BYTE)	LT				
3	STATUS				NUMERIC (*)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
CA_PSSN					P_SSN	ASC
C_TNAME					TEAM_NAME	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188718	TEAM		Y		TEAM_NAME	TEAM_NAME	
SYS_C00188719	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.CHEQUE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	6
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	D_DATE	P		Y	Date (7)	LT				
3	AMOUNT	P		Y	FLOAT (126)	LT				
4	TYPE	P		Y	VARCHAR (15 BYTE)	LT				
5	FUND_NAME	P		Y	VARCHAR (20 BYTE)	LT				
6	CHEQUE_NO				NUMERIC (*)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
CHEQUE_PK	PK				D_DATE	ASC
					AMOUNT	ASC
					TYPE	ASC
					FUND_NAME	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188709	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.CHURCH
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	2
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME		F		VARCHAR (20 BYTE)	LT				
2	AFFILIATION				VARCHAR (20 BYTE)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188724	EXT_ORG		Y		ORG_NAME	ORG_NAME	

Table Name	SARA0003.CLIENT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	6
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	DOC_NAME				VARCHAR (20 BYTE)	LT				
3	ATT_NAME				VARCHAR (20 BYTE)	LT				
4	DOC_PH				NUMERIC (*)	LT				
5	ATT_PH				NUMERIC (*)	LT				
6	C_DATE				Date (7)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
C_PSSN					P_SSN	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188701	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.DONOR
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	2
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	ANON_STATUS				VARCHAR (3 BYTE)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188704	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.EMERGENCY_CONTACT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	E_NAME	P		Y	VARCHAR (20 BYTE)	LT				
3	CONTACT	P		Y	NUMERIC (*)	LT				
4	RELATION				VARCHAR (10 BYTE)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
EMERGENCY_CONTACT_PK	PK				E_NAME	ASC
					CONTACT	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188704	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.EMPLOYEE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	E_SALARY				FLOAT (126)	LT				
3	M_STATUS				VARCHAR (8 BYTE)	LT				
4	HIRE_DATE				Date (7)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
E_PSSN					P_SSN	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188703	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.EXPENSE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	EXPENSE_DATE				Date (7)	LT				
3	EXPENSE_AMOUNT				FLOAT (126)	LT				
4	EXPENSE_DESC				VARCHAR (20 BYTE)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00210022	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.EXT_ORG
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME	P		Y	VARCHAR (20 BYTE)	LT				
2	ORG_ADD				VARCHAR (20 BYTE)	LT				
3	ORG_PH				NUMERIC (*)	LT				
4	ORG_CONTACT				VARCHAR (20 BYTE)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
EXT_ORG_PK	PK				ORG_NAME	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188723	BUSINESS		Y		ORG_NAME	ORG_NAME	
SYS_C00188724	CHURCH		Y		ORG_NAME	ORG_NAME	
SYS_C00188726	ORG_DONORS		Y		ORG_NAME	ORG_NAME	
SYS_C00190704	SPONSORS		Y		ORG_NAME	ORG_NAME	
SYS_C00190715	ORG_DONATION_CHEQUE		Y		ORG_NAME	ORG_NAME	
SYS_C00190719	ORG_DONATION_CARD		Y		ORG_NAME	ORG_NAME	

Table Name	SARA0003.HOLDS
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	2
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	POLICY_ID		F		NUMERIC (*)	LT				
2	P_SSN				NUMERIC (*)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00209608	INSURANCE_POLICY		Y		POLICY_ID	POLICY_ID	

Table Name	SARA003.INSURANCE_POLICY
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	5
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	POLICY_ID	P		Y	NUMERIC (*)	LT				
3	PROVIDER_ID				NUMERIC (*)	LT				
4	PR_ADDRESS				VARCHAR (20 BYTE)	LT				
5	P_TYPE				VARCHAR (20 BYTE)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
INSURANCE_POLICY_PK	PK				POLICY_ID	ASC
I_PTYPE					P_TYPE	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00210000	PERSON		Y		P_SSN	P_SSN	

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00209608	HOLDS		Y		POLICY_ID	POLICY_ID	

Table Name	SARA003.LEADS
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	2
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	TEAM_NAME				VARCHAR (20 BYTE)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188714	PERSON		Y		P_SSN	P_SSN	

Table Name	SARA0003.NEEDS
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	3
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	TYPE				VARCHAR (10 BYTE)	LT				
3	VALUE				NUMERIC (*)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188707	PERSON			Y	P_SSN	P_SSN	

Table Name	SARA0003.ORG_DONATION_CARD
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	8
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME		F		VARCHAR (20 BYTE)	LT				
2	ORG_DON_DATE	P		Y	Date (7)	LT				
3	ORG_DON_AMOUNT	P		Y	FLOAT (126)	LT				
4	ORG_DON_TYPE	P		Y	VARCHAR (20 BYTE)	LT				
5	ORG_DON_FUND_NAME	P		Y	VARCHAR (20 BYTE)	LT				
6	ORG_DON_CNO				NUMERIC (*)	LT				
7	ORG_DON_CTYPE				VARCHAR (10 BYTE)	LT				
8	ORG_DON_EXPDATE				Date (7)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
ORG_DONATION_CARD_PK	PK				ORG_DON_DATE	ASC
					ORG_DON_AMOUNT	ASC
					ORG_DON_TYPE	ASC
					ORG_DON_FUND_NAME	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00190719	EXT_ORG			Y	ORG_NAME	ORG_NAME	

Table Name	SARA0003.ORG_DONATION_CHEQUE									
Functional Name										
Abbreviation										
Classification Type Name										
Object Type Name										
Number Of Columns	6									
Number Of Rows Min.	0									
Number Of Rows Max.	99999999									
Expected Number Of Rows	0									
Expected Growth	0									
Growth Interval	Year									
<i>Columns</i>										
No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME		F		VARCHAR (20 BYTE)	LT				
2	ORG_DON_DATE		P	Y	Date (?)	LT				
3	ORG_DON_AMOUNT		P	Y	FLOAT (126)	LT				
4	ORG_DON_TYPE		P	Y	VARCHAR (20 BYTE)	LT				
5	ORG_DON_FUND_NAME		P	Y	VARCHAR (20 BYTE)	LT				
6	ORG_DON_CHEQNO				NUMERIC (*)	LT				
<i>Indexes</i>										
Index Name	State	Functional	Spatial	Expression			Column Name	Sort Order		
ORG_DONATION_CHEQUE_PK	PK						ORG_DON_DATE	ASC		
							ORG_DON_AMOUNT	ASC		
							ORG_DON_TYPE	ASC		
							ORG_DON_FUND_NAME	ASC		
<i>Foreign Keys (referring to)</i>										
Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule			
SYS_C00190715	EXT_ORG		Y		ORG_NAME	ORG_NAME				

Table Name	SARA0003.ORG_DONORS									
Functional Name										
Abbreviation										
Classification Type Name										
Object Type Name										
Number Of Columns	2									
Number Of Rows Min.	0									
Number Of Rows Max.	99999999									
Expected Number Of Rows	0									
Expected Growth	0									
Growth Interval	Year									
<i>Columns</i>										
No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME		F		VARCHAR (20 BYTE)	LT				
2	ORG_ANON_STATUS				VARCHAR (3 BYTE)	LT				
<i>Foreign Keys (referring to)</i>										
Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule			
SYS_C00188726	EXT_ORG		Y		ORG_NAME	ORG_NAME				

Table Name	SARA0003.REPORT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN				NUMERIC (*)	LT				
2	TEAM_NAME		F		VARCHAR (20 BYTE)	LT				
3	REPORT_DESC				VARCHAR (20 BYTE)	LT				
4	REPORT_DATE				Date (?)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00208936	TEAM			Y	TEAM_NAME	TEAM_NAME	

Table Name	SARA0003.SERVES
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	5
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN				NUMERIC (*)	LT				
2	TEAM_NAME		F		VARCHAR (20 BYTE)	LT				
3	HOURS				NUMERIC (*)	LT				
4	MONTH				VARCHAR (10 BYTE)	LT				
5	ACTIVE				NUMERIC (*)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
S_TNAME					TEAM_NAME	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188715	TEAM			Y	TEAM_NAME	TEAM_NAME	

Table Name	SARA003.PERSON
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	12
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN	p		Y	NUMERIC (*)	LT				
2	P_NAME				VARCHAR (20 BYTE)	LT				
3	DATE_OF_BIRTH				Date (7)	LT				
4	RACE				VARCHAR (20 BYTE)	LT				
5	GENDER				VARCHAR (7 BYTE)	LT				
6	PROFESSION				VARCHAR (20 BYTE)	LT				
7	MAIL_ADD				VARCHAR (20 BYTE)	LT				
8	EMAIL_ADD				VARCHAR (30 BYTE)	LT				
9	HOME_PH				NUMERIC (*)	LT				
10	WORK_PH				NUMERIC (*)	LT				
11	CELL_PH				NUMERIC (*)	LT				
12	MAIL_LIST				NUMERIC (*)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
PERSON_PK	PK				P_SSN	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00210000	INSURANCE_POLICY		Y		P_SSN	P_SSN	
SYS_C00188701	CLIENT		Y		P_SSN	P_SSN	
SYS_C00188702	VOLUNTEER		Y		P_SSN	P_SSN	
SYS_C00188703	EMPLOYEE		Y		P_SSN	P_SSN	
SYS_C00188704	DONOR		Y		P_SSN	P_SSN	
SYS_C00188706	EMERGENCY_CONTACT		Y		P_SSN	P_SSN	
SYS_C00188707	NEEDS		Y		P_SSN	P_SSN	
SYS_C00188709	CHEQUE		Y		P_SSN	P_SSN	
SYS_C00188711	CARD		Y		P_SSN	P_SSN	
SYS_C00188714	LEADS		Y		P_SSN	P_SSN	
SYS_C00188719	CARES		Y		P_SSN	P_SSN	
SYS_C00188725	AFFILIATED		Y		P_SSN	P_SSN	
SYS_C00210022	EXPENSE		Y		P_SSN	P_SSN	

Table Name	SARA0003.SPONSORS
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	2
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ORG_NAME		F		VARCHAR (20 BYTE)	LT				
2	TEAM_NAME		F		VARCHAR (20 BYTE)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
SP_ORGNAME					ORG_NAME	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00190704	EXT_ORG		Y		ORG_NAME	ORG_NAME	
SYS_C00190705	TEAM		Y		TEAM_NAME	TEAM_NAME	

Table Name	SARA0003.TEAM
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	3
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	TEAM_NAME	P		Y	VARCHAR (20 BYTE)	LT				
2	TEAM_TYPE				VARCHAR (20 BYTE)	LT				
3	T_DATE				Date (7)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
TEAM_PK	PK				TEAM_NAME	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188715	SERVES		Y		TEAM_NAME	TEAM_NAME	
SYS_C00188718	CARES		Y		TEAM_NAME	TEAM_NAME	
SYS_C00190705	SPONSORS		Y		TEAM_NAME	TEAM_NAME	
SYS_C00208936	REPORT		Y		TEAM_NAME	TEAM_NAME	

Table Name	SARA003.VOLUNTEER
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	P_SSN		F		NUMERIC (*)	LT				
2	JOIN_DATE				Date (7)	LT				
3	TRAIN_DATE				Date (7)	LT				
4	TRAIN_LOC				VARCHAR (20 BYTE)	LT				

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
SYS_C00188702	PERSON		Y		P_SSN	P_SSN	

TASK 3

Task 3.1: Storage structure of tables

Table Name	Type of Query	Search Key	Frequency	File Organization
Person	2.Insert 3.Insert 5.Insert 8.Insert 13.Random search 14.Random search 15.Random search	P_SSN P_SSN P_SSN	1/week 2/month 1/year 1/day 1/week 1/week 1/month	Dynamic Hashing with hash key as P_SSN
Client	2.Insert 10.Random Search 17.Random search	P_SSN P_SSN	1/week 1/week 4/year	Dynamic Hashing with hash key as P_SSN
Volunteer	3.Insert		2/month	Heap File
Employee	5.Insert 14.Random search	P_SSN	1/year 1/week	Indexed Sequential File using the search key as P_SSN
Donor	8.Insert		1/day	Heap File
Emergency_Contact				
Needs	17.Random search	Need_Type Need_Value	4/year	Indexed Sequential file with secondary key as Need_Type and Need_Value
Team	1.Insert		1/month	Heap File
Report	5.Insert		1/year	Heap File
Leads				
Serves	3.Insert 4.Insert 12.Random search 15.Range search	Team_name Month_Name	2/month 30/month 4/year 1/month	B+ tree using search keys Team_Name and Month_Name
Expense	6.Insert 11.Range search	Expense_Date	1/day 1/month	B+ tree with search key as Expense_Date

Cares	2.Insert 12.Random search 13.Random search	P_SSN Team_name	1/week 4/year 1/week	Dynamic Hashing with hash key as P_SSN for primary index and Team_name for secondary index
Insurance_Policy	17.Random search	P_type	4/year	Indexed Sequential file with search key P_type
Cheque	8.Insert		1/day	Heap File
Card	8.Insert		1/day	Heap File
Org_Donors	9.Insert		1/day	Heap File
Org_Donation_cheq	9.Insert		1/day	Heap File
Org_Donation_card	9.Insert		1/day	Heap File
Ext_Org	7.Insert 9.Insert		2/week 1/day	Heap File
Business				
Church				
Affiliated				
Sponsors	7.Insert 13.Range search	Org_name	2/week 1/week	B+ Tree with search key as Org_name

Task 3.2: Storage structure for tables in Oracle 12c

Table Name	Type of Query	Search Key	Frequency	File Organization
Person	2.Insert 3.Insert 5.Insert 8.Insert 13.Random search 14.Random search 15.Random search	P_SSN P_SSN P_SSN	1/week 2/month 1/year 1/day 1/week 1/week 1/month	Search key P_SSN is primary key therefore oracle will create primary index by default
Client	2.Insert 10.Random Search 17.Random search	P_SSN P_SSN	1/week 1/week 4/year	Create Index on P_SSN

Volunteer	3.Insert		2/month	Heap File
Employee	5.Insert 14.Random search	P_SSN	1/year 1/week	Create Index on P_SSN
Donor	8.Insert		1/day	Heap File
Emergency_Contact				
Needs	17.Random search	Need_Type Need_Value	4/year	Create index on Need_type and Need_Value
Team	1.Insert		1/month	Heap File
Report	5.Insert		1/year	Heap File
Leads				
Serves	3.Insert 4.Insert 12.Random search 15.Range search	Team_name Month_Name	2/month 30/month 4/year 1/month	Create Index on the keys Team_Name and Month_Name
Expense	6.Insert 11.Range search	Expense_Date	1/day 1/month	Create Index on Expense_Date
Cares	2.Insert 12.Random search 13.Random search	P_SSN Team_name	1/week 4/year 1/week	Create Index on P_SSN and Team_name
Insurance_Policy	17.Random search	P_type	4/year	Create Index on P_type
Cheque	8.Insert		1/day	Heap File
Card	8.Insert		1/day	Heap File
Org_Donors	9.Insert		1/day	Heap File
Org_Donation_cheq	9.Insert		1/day	Heap File
Org_Donation_card	9.Insert		1/day	Heap File
Ext_Org	7.Insert 9.Insert		2/week 1/day	Heap File
Business				
Church				
Affiliated				
Sponsors	7.Insert 13.Range search	Org_name	2/week 1/week	Create Index on Org_name

TASK 4

Task 4.1: Scripts showing table creations

--Creating Table Person

```
create table Person(P_SSN integer, P_Name varchar(20), Date_of_birth date, Race  
varchar(20), Gender varchar(7), Profession varchar(20), Mail_Add  
varchar(20), Email_Add varchar(30), Home_Ph integer, Work_Ph integer, Cell_Ph  
integer, Mail_list integer, PRIMARY KEY(P_SSN));
```

Actions... Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER (38, 0)	No	(null)	1 (null)	
2 P_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	2 (null)	
3 DATE_OF_BIRTH	DATE	Yes	(null)	3 (null)	
4 RACE	VARCHAR2 (20 BYTE)	Yes	(null)	4 (null)	
5 GENDER	VARCHAR2 (7 BYTE)	Yes	(null)	5 (null)	
6 PROFESSION	VARCHAR2 (20 BYTE)	Yes	(null)	6 (null)	
7 MAIL_ADD	VARCHAR2 (20 BYTE)	Yes	(null)	7 (null)	
8 EMAIL_ADD	VARCHAR2 (30 BYTE)	Yes	(null)	8 (null)	
9 HOME_PH	NUMBER (38, 0)	Yes	(null)	9 (null)	
10 WORK_PH	NUMBER (38, 0)	Yes	(null)	10 (null)	
11 CELL_PH	NUMBER (38, 0)	Yes	(null)	11 (null)	
12 MAIL_LIST	NUMBER (38, 0)	Yes	(null)	12 (null)	

--Creating Table Client

```
create table Client(P_SSN integer, Doc_name varchar(20), Att_name varchar(20),  
Doc_Ph integer, Att_Ph integer, C_Date date, FOREIGN KEY(P_SSN) REFERENCES  
Person(P_SSN));
```

Actions... Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER (38, 0)	Yes	(null)	1 (null)	
2 DOC_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	2 (null)	
3 ATT_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	3 (null)	
4 DOC_PH	NUMBER (38, 0)	Yes	(null)	4 (null)	
5 ATT_PH	NUMBER (38, 0)	Yes	(null)	5 (null)	
6 C_DATE	DATE	Yes	(null)	6 (null)	

--Creating Table Employee

```
create table Employee(P_SSN integer, E_Salary float, M_Status varchar(8), Hire_Date  
date, FOREIGN KEY(P_SSN) REFERENCES Person(P_SSN));
```

Actions... Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER (38, 0)	Yes	(null)	1 (null)	
2 E_SALARY	FLOAT	Yes	(null)	2 (null)	
3 M_STATUS	VARCHAR2 (20 BYTE)	Yes	(null)	3 (null)	
4 HIRE_DATE	DATE	Yes	(null)	4 (null)	

--Creating Table Volunteer

```
create table Volunteer(P_SSN integer, Join_Date date,Train_Date date,Train_Loc  
varchar(20), FOREIGN KEY(P_SSN) REFERENCES Person(P_SSN));
```

Actions...					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1 (null)	
2 JOIN_DATE	DATE	Yes	(null)	2 (null)	
3 TRAIN_DATE	DATE	Yes	(null)	3 (null)	
4 TRAIN_LOC	VARCHAR2(20 BYTE)	Yes	(null)	4 (null)	

--Creating Table Donor

```
create table Donor(P_SSN integer, Anon_Status varchar(3), FOREIGN KEY(P_SSN)  
REFERENCES Person(P_SSN));
```

Actions...					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1 (null)	
2 ANON_STATUS	VARCHAR2(3 BYTE)	Yes	(null)	2 (null)	

--Creating Table Emergency_Contact

```
create table Emergency_Contact(P_SSN integer, E_Name varchar(20),Contact  
integer,Relation varchar(10), PRIMARY KEY(E_Name,Contact),FOREIGN  
KEY(P_SSN) REFERENCES Person(P_SSN));
```

Actions...					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1 (null)	
2 E_NAME	VARCHAR2(20 BYTE)	No	(null)	2 (null)	
3 CONTACT	NUMBER(38,0)	No	(null)	3 (null)	
4 RELATION	VARCHAR2(10 BYTE)	Yes	(null)	4 (null)	

--Creating Table Needs

```
create table Needs(P_SSN integer, Type varchar(10),Value integer, FOREIGN  
KEY(P_SSN) REFERENCES Person(P_SSN));
```

Actions...					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1 (null)	
2 TYPE	VARCHAR2(20 BYTE)	Yes	(null)	2 (null)	
3 VALUE	NUMBER(38,0)	Yes	(null)	3 (null)	

--Creating Table Cheque

```
create table Cheque(P_SSN integer, D_Date date,Amount float,Type  
varchar(15),Fund_Name varchar(20),Cheque_no integer,PRIMARY  
KEY(D_Date,Amount,Type,Fund_Name), FOREIGN KEY(P_SSN) REFERENCES  
Person(P_SSN));
```

Actions...					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1	(null)
2 D_DATE	DATE	No	(null)	2	(null)
3 AMOUNT	FLOAT	No	(null)	3	(null)
4 TYPE	VARCHAR2(15 BYTE)	No	(null)	4	(null)
5 FUND_NAME	VARCHAR2(20 BYTE)	No	(null)	5	(null)
6 CHEQUE_NO	NUMBER(38,0)	Yes	(null)	6	(null)

--Creating Table Card

```
create table Card(P_SSN integer, D_Date date,Amount float,Type  
varchar(15),Fund_Name varchar(20),Card_no integer,Card_type varchar(10),Exp_date  
date,PRIMARY KEY(D_Date,Amount,Type,Fund_Name), FOREIGN KEY(P_SSN)  
REFERENCES Person(P_SSN));
```

Actions...					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1	(null)
2 D_DATE	DATE	No	(null)	2	(null)
3 AMOUNT	FLOAT	No	(null)	3	(null)
4 TYPE	VARCHAR2(15 BYTE)	No	(null)	4	(null)
5 FUND_NAME	VARCHAR2(20 BYTE)	No	(null)	5	(null)
6 CARD_NO	NUMBER(38,0)	Yes	(null)	6	(null)
7 CARD_TYPE	VARCHAR2(10 BYTE)	Yes	(null)	7	(null)
8 EXP_DATE	DATE	Yes	(null)	8	(null)

--Creating Table Team

```
create table Team(P_SSN integer, Team_name varchar(20),Team_type  
varchar(20),T_date date,Report_desc varchar(20),Report_date date, PRIMARY  
KEY(Team_name),FOREIGN KEY(P_SSN) REFERENCES Person(P_SSN));
```

Actions...					
COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 TEAM_NAME	VARCHAR2(20 BYTE)	No	(null)	1	(null)
2 TEAM_TYPE	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3 T_DATE	DATE	Yes	(null)	3	(null)

--Creating Table Leads

```
create table Leads(P_SSN integer, Team_name varchar(20),FOREIGN KEY(P_SSN)
REFERENCES Person(P_SSN));
```

Actions... Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL					
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID COMMENTS
1	P_SSN	NUMBER (38, 0)	Yes	(null)	1 (null)
2	TEAM_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	2 (null)

--Creating Table Serves

```
create table Serves(P_SSN integer, Team_name varchar(20),Hours integer,Month
varchar(10),Active integer,FOREIGN KEY(Team_name) REFERENCES
Team(Team_name));
```

Actions... Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL					
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID COMMENTS
1	P_SSN	NUMBER (38, 0)	Yes	(null)	1 (null)
2	TEAM_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	2 (null)
3	HOURS	NUMBER (38, 0)	Yes	(null)	3 (null)
4	ACTIVE	NUMBER (38, 0)	Yes	(null)	4 (null)
5	MONTH	VARCHAR2 (15 BYTE)	Yes	(null)	5 (null)

--Creating Table Expense

```
create table Expense(P_SSN,Expense_date date,Expense_amount float,Expense_Desc
varchar(20),FOREIGN KEY(P_SSN) REFERENCES person(P_SSN));
```

Actions... Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL					
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID COMMENTS
1	P_SSN	NUMBER (38, 0)	Yes	(null)	1 (null)
2	EXPENSE_DATE	DATE	Yes	(null)	2 (null)
3	EXPENSE_AMOUNT	FLOAT	Yes	(null)	3 (null)
4	EXPENSE_DESC	VARCHAR2 (20 BYTE)	Yes	(null)	4 (null)

--Creating Table Cares

```
create table Cares(P_SSN integer, Team_name varchar(20),Status integer,FOREIGN
KEY(Team_name) REFERENCES Team(Team_name),FOREIGN KEY(P_SSN)
REFERENCES Person(P_SSN));
```

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL Actions...

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1	(null)
2 TEAM_NAME	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3 STATUS	NUMBER(38,0)	Yes	(null)	3	(null)

--Creating Table Insurance_Policy

```
create table Insurance_Policy(P_SSN,Policy_id integer,Provider_id integer,Pr_address
varchar(20),P_type varchar(20), PRIMARY KEY(Policy_id),FOREIGN KEY(P_SSN)
REFERENCES Person(P_SSN));
```

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL Actions...

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 P_SSN	NUMBER(38,0)	Yes	(null)	1	(null)
2 POLICY_ID	NUMBER(38,0)	No	(null)	2	(null)
3 PROVIDER_ID	NUMBER(38,0)	Yes	(null)	3	(null)
4 PR_ADDRESS	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)
5 P_TYPE	VARCHAR2(20 BYTE)	Yes	(null)	5	(null)

--Creating Table External_Organization

```
create table Ext_Org(Org_name varchar(20),Org_Add varchar(20),Org_Ph
integer,Org_Contact varchar(20), PRIMARY KEY(Org_name));
```

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL Actions...

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 ORG_NAME	VARCHAR2(20 BYTE)	No	(null)	1	(null)
2 ORG_ADD	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3 ORG_PH	NUMBER(38,0)	Yes	(null)	3	(null)
4 ORG_CONTACT	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)

--Creating Table Business

```
create table Business(Org_name varchar(20),Business_type varchar(20),Business_size
integer,Website varchar(30),FOREIGN KEY(Org_name) REFERENCES
Ext_Org(Org_name));
```

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL Actions...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)
2	BUSINESS_TYPE	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3	BUSINESS_SIZE	NUMBER(38, 0)	Yes	(null)	3	(null)
4	WEBSITE	VARCHAR2(30 BYTE)	Yes	(null)	4	(null)

--Creating Table Church

```
create table Church(Org_name varchar(20),Affiliation varchar(20),FOREIGN KEY(Org_name) REFERENCES Ext_Org(Org_name));
```

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL Actions...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)
2	AFFILIATION	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)

--Creating Table Affiliated

```
create table Affiliated(Org_name varchar(20),P_SSN integer,FOREIGN KEY(P_SSN) REFERENCES Person(P_SSN));
```

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL Actions...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)
2	P_SSN	NUMBER(38, 0)	Yes	(null)	2	(null)

--Creating Table Org_Donors

```
create table Org_donors(Org_name varchar(20), Org_Anon_Status varchar(3),FOREIGN KEY(Org_name) REFERENCES Ext_Org(Org_name));
```

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL Actions...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)
2	ORG_ANON_STATUS	VARCHAR2(3 BYTE)	Yes	(null)	2	(null)

--Creating Table Org_Donation_Cheque

```
create table Org_Donation_cheque(Org_name varchar(20), Org_Don_Date date,Org_Don_Amount float,Org_Don_Type varchar(20),Org_Don_Fund_name varchar(20),Org_Don_chqno integer,PRIMARY
```

```
KEY(Org_Don_Date,Org_Don_Amount,Org_Don_Type,Org_Don_Fund_name),FOREIGN KEY(Org_name) REFERENCES Ext_Org(Org_name);
```

Actions...	Columns	Data	Model	Constraints	Grants	Statistics	Triggers	Flashback	Dependencies	Details	Partitions	Indexes	SQL
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS							
1	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)							
2	ORG_DON_DATE	DATE	No	(null)	2	(null)							
3	ORG_DON_AMOUNT	FLOAT	No	(null)	3	(null)							
4	ORG_DON_TYPE	VARCHAR2(20 BYTE)	No	(null)	4	(null)							
5	ORG_DON_FUND_NAME	VARCHAR2(20 BYTE)	No	(null)	5	(null)							
6	ORG_DON_CHEQNO	NUMBER(38,0)	Yes	(null)	6	(null)							

--Creating Table Org_Donation_Card

```
create table Org_Donation_card(Org_name varchar(20), Org_Don_Date date,Org_Don_Amount float,Org_Don_Type varchar(20),Org_Don_Fund_name varchar(20),Org_Don_Cno integer,Org_Don_Ctype varchar (10),Org_Don_Expdate date,PRIMARY KEY(Org_Don_Date,Org_Don_Amount,Org_Don_Type,Org_Don_Fund_name),FOREIGN KEY(Org_name) REFERENCES Ext_Org(Org_name));
```

Actions...	Columns	Data	Model	Constraints	Grants	Statistics	Triggers	Flashback	Dependencies	Details	Partitions	Indexes	SQL
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS							
1	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)							
2	ORG_DON_DATE	DATE	No	(null)	2	(null)							
3	ORG_DON_AMOUNT	FLOAT	No	(null)	3	(null)							
4	ORG_DON_TYPE	VARCHAR2(20 BYTE)	No	(null)	4	(null)							
5	ORG_DON_FUND_NAME	VARCHAR2(20 BYTE)	No	(null)	5	(null)							
6	ORG_DON_CNO	NUMBER(38,0)	Yes	(null)	6	(null)							
7	ORG_DON_CTYPE	VARCHAR2(10 BYTE)	Yes	(null)	7	(null)							
8	ORG_DON_EXPDATE	DATE	Yes	(null)	8	(null)							

--Creating Table sponsors

```
create table Sponsors(Org_name varchar(20), Team_name varchar(20), FOREIGN KEY(Org_name) REFERENCES Ext_Org(Org_name), FOREIGN KEY(Team_name) REFERENCES Team(Team_name));
```

Actions...	Columns	Data	Model	Constraints	Grants	Statistics	Triggers	Flashback	Dependencies	Details	Partitions	Indexes	SQL
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS							
1	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)							
2	TEAM_NAME	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)							

--Creating Table Report

```
create table report( P_SSN integer,team_name varchar(20),report_desc  
varchar(20),report_date date,FOREIGN KEY(team_name) REFERENCES  
team(team_name));
```

Actions...	Columns	Data	Model	Constraints	Grants	Statistics	Triggers	Flashback	Dependencies	Details	Partitions	Indexes	SQL
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS							
	1 P_SSN	NUMBER(38,0)	Yes	(null)	1	(null)							
	2 TEAM_NAME	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)							
	3 REPORT_DESC	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)							
	4 REPORT_DATE	DATE	Yes	(null)	4	(null)							

Task 4.2: Scripts for Index Creations

```
create Index C_pssn on client(P_SSN);  
create Index E_pssn on employee(P_SSN);  
create Index S_tname on serves(team_name);  
create Index S_mname on serves(month_name);  
create Index N_type_value on needs(need_type,need_value);  
create Index e_date on expense(expense_date);  
create Index C_tname on cares(team_name);  
create Index Ca_pssn on cares(p_ssn);  
create Index I_ptype on Insurance_policy(p_type);  
create Index Sp_orgname on sponsors(org_name);
```

TASK 5

Task 5.1:Script file of java program

```
package lavanya;
import java.io.*;
import java.sql.*;

public class db_project {
    //function to get person data
    public static int persondata()throws SQLException, NumberFormatException,
    IOException
    {
        //establishing database connection
        Connection
        DB1=DriverManager.getConnection("jdbc:oracle:thin:@//oracle.cs.ou.edu:1521/pdborcl.cs.ou.e
        du","sara0003","GYat6Oh7");
        Statement st1=DB1.createStatement();
        //reader to hold the values got from user
        BufferedReader br1=new BufferedReader(new
        InputStreamReader(System.in));
        System.out.println("Enter the Person SSN");
        int p_ssn=Integer.parseInt(br1.readLine());
        System.out.println("Enter the Person name");
        String p_name=(br1.readLine());
        System.out.println("Enter the Person DOB");
        String p_dob=(br1.readLine());
        System.out.println("Enter the Person Race");
        String p_race=(br1.readLine());
        System.out.println("Enter the Person Gender");
        String p_gender=(br1.readLine());
        System.out.println("Enter the Person Profession");
        String p_prof=(br1.readLine());
        System.out.println("Enter the Person Contact details..\n");
        System.out.println("Enter the Person mailing address");
        String p_mail=(br1.readLine());
        System.out.println("Enter the Person Email");
        String p_email=(br1.readLine());
        System.out.println("Enter the Person Home_ph_no");
        int p_hph=Integer.parseInt(br1.readLine());
        System.out.println("Enter the Person Work_ph_no");
        int p_wph=Integer.parseInt(br1.readLine());
        System.out.println("Enter the Person Cell_ph_no");
        int p_cph=Integer.parseInt(br1.readLine());
        System.out.println("Enter 1 if Person should be added in mailing list otherwise 0");
        int p_list=Integer.parseInt(br1.readLine());
        st1.executeUpdate("insert into Person
values("+p_ssn+","+p_name+","+p_dob+","+p_race+","+p_gender+","+p_prof+","+p_ma
il+","+p_email+","+p_hph+","+p_wph+","+p_cph+","+p_list+ ")");
    }
}
```

```

        DB1.close();
        return p_ssn;
    }
    public static void main(String[] args) throws NumberFormatException, IOException {
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        int n;

        //Loading Oracle Driver
        try {
            Class.forName("oracle.jdbc.OracleDriver");
            System.out.println("Connected");
        }
        catch(Exception e) {
            System.out.println("Unable to load driver class");
        }

        //Establishing connection to database
        try {
            Connection
DB=DriverManager.getConnection("jdbc:oracle:thin:@//oracle.cs.ou.edu:1521/pdborcl.cs.ou.ed
u","sara0003","GYat6Oh7");

            //Creating Statement object
            Statement st=DB.createStatement();
            System.out.println("1.Enter a new team into the database");
            System.out.println("2.Enter a new client into the database and associate him or
her with one or more teams");
            System.out.println("3.Enter a new volunteer into the database and associate him
or her with one or more teams");
            System.out.println("4.Enter the number of hours a volunteer worked this month
for a particular team");
            System.out.println("5.Enter a new employee into the database and associate him
or her with one or more teams");
            System.out.println("6.Enter an expense charged by an employee");
            System.out.println("7.Enter a new organization and associate it to one or more
PAN teams");
            System.out.println("8.Enter a new donor and associate him or her with several
donations");
            System.out.println("9.Enter a new organization and associate it with several
donations");
            System.out.println("10.Retrieve the name and phone number of the doctor of a
particular client");
            System.out.println("11.Retrieve the total amount of expenses charged by each
employee for a particular period of time. The list should be sorted by the total amount of
expenses");
        }
    }
}

```

```

        System.out.println("12.Retrieve the list of volunteers that are members of teams
that support a particular client");
        System.out.println("13.Retrieve the names and contact information of the clients
that are supported by teams sponsored by an organization whose name starts with a letter
between B and K. The client list should be sorted by name");
        System.out.println("14.Retrieve the name and total amount donated by donors
that are also employees. The list should be sorted by the total amount of the donations, and
indicate if each donor wishes to remain anonymous");
        System.out.println("15.For each team, retrieve the name and associated contact
information of the volunteer that has worked the most total hours between March and June");
        System.out.println("16.Increase the salary by 10% of all employees to whom
more than one team must report");
        System.out.println("17.Delete all clients who do not have health insurance and
whose value of importance for transportation is less than 5");
        System.out.println("18.Import File to Database");
        System.out.println("19.Export file from Database");
        System.out.println("20.Exit from PAN");
        //Loop to perform various options
        do
        {
            System.out.println("ENTER THE CHOICE YOU WANT TO PERFORM IN
PAN SYSTEM");
            n=Integer.parseInt(br.readLine());
            switch(n)
            {
                //Enter a new team into the database
                case 1: System.out.println("Enter the Team name");
                    String team_name=(br.readLine());
                    System.out.println("Enter the Team type");
                    String team_type=(br.readLine());
                    System.out.println("Enter the Team formed date");
                    String form_date=br.readLine();
                    st.executeUpdate("insert into Team
values('"+team_name+"','"+team_type+"','"+form_date+"')");
                    break;
                //Enter a new client into the database and associate him or her with one or more
                teams
                case 2: int p_ssn=persondata();
                    System.out.println("Now Enter the Client details....");
                    System.out.println("Enter the Doctor name");
                    String doc_name=(br.readLine());
                    System.out.println("Enter the Attorney name");
                    String att_name=(br.readLine());
                    System.out.println("Enter the Doctor phone number");
                    int doc_ph=Integer.parseInt(br.readLine());
                    System.out.println("Enter the Attorney phone number");
                    int att_ph=Integer.parseInt(br.readLine());
            }
        }
    }
}

```

```

        System.out.println("Enter the client joining date");
        String client_date=(br.readLine());
        st.executeUpdate("insert into Client
values(""+p_ssn+"','"+doc_name+"','"+att_name+"','"+doc_ph+"','"+att_ph+"','"+client_date+"')")
;
        ResultSet set1= st.executeQuery("select team_name from team");
        System.out.println("Client must be associated to how many
teams?");
        int no_teams=Integer.parseInt(br.readLine());
        System.out.println("To which team client must be associated from
below listed teams");
        while(set1.next())
        {
            System.out.println(set1.getString(1));
        }
        for(int i=1;i<=no_teams;i++)
        {
            System.out.println("Enter "+i+"st team name");
            String user_tname=(br.readLine());
            st.executeUpdate("insert into Cares
values(""+p_ssn+"','"+user_tname+"",1)");
        }
        break;
//Enter a new volunteer into the database and associate him or her with one or
more teams
case 3: int pv_ssn3=persondata();
        System.out.println("Now Enter the Volunteer details....");
        System.out.println("Enter the date that person joined PAN ");
        String v_date=(br.readLine());
        System.out.println("Enter the Training join date");
        String v_train_date=(br.readLine());
        System.out.println("Enter the Training Location");
        String v_train_loc=(br.readLine());
        st.executeUpdate("insert into Volunteer
values(""+pv_ssn3+"','"+v_date+"','"+v_train_date+"','"+v_train_loc+"')");
        ResultSet set2= st.executeQuery("select team_name from team");
        System.out.println("Volunteer must be associated to how many
teams?");
        int n_o_teams=Integer.parseInt(br.readLine());
        System.out.println("To which team Voluteer must be associated
from below listed teams");
        while(set2.next())
        {
            System.out.println(set2.getString(1));
        }
        for(int i=1;i<=n_o_teams;i++)

```

```

{
    System.out.println("Enter "+i+"st team name");
    String user_tname3=(br.readLine());
    System.out.println("Enter the month the volunteer worked");
    String user_v_month=(br.readLine());
    System.out.println("Enter number of hours worked for specified
month");
    String user_v_hours=(br.readLine());
    st.executeUpdate("insert into Serves
values("+pv_ssn3+","+user_tname3+","+user_v_hours+",1,"+user_v_month+")");
}
break;
//Enter the number of hours a volunteer worked this month for a
particular team
case 4: System.out.println("Enter Volunteer SSN number for whom the hour
must be recorded");
ResultSet set3= st.executeQuery("select P_name,P_SSN
from Person where P_SSN in(select P_SSN from volunteer)");
System.out.println("list of Volunteers...");
while(set3.next())
{
    System.out.print(set3.getString(1));
    System.out.print("\t"+set3.getString(2)+"\n");
}
int user_vpssn=Integer.parseInt(br.readLine());
System.out.println("Enter team name for which volunteer date must
be recorded from below list of teams");
ResultSet set4= st.executeQuery("select team_name from team");
while(set4.next())
{
    System.out.println(set4.getString(1));
}
String user_v_tname=(br.readLine());
System.out.println("Enter the hours worked");
int user_vhours=Integer.parseInt(br.readLine());
System.out.println("Enter the month ");
String user_vmonth=(br.readLine());
st.executeQuery("insert into serves
values("+user_vpssn+","+user_v_tname+","+user_vhours+",1,"+user_vmonth+")");
break;
//Enter a new employee into the database and associate him or her with
one or more teams
case 5: int p_ssn5=persondata();
System.out.println("Now Enter the Employee details....");
System.out.println("Enter the employee Salary ");
float emp_sal=Float.parseFloat(br.readLine());

```

```

        System.out.println("Enter the Employee Marital status");
        String emp_mstatus=(br.readLine());
        System.out.println("Enter the Employee hired date");
        String emp_hdate=(br.readLine());
        st.executeUpdate("insert into Employee
values(""+p_ssn5+"','"+emp_sal+"','"+emp_mstatus+"','"+emp_hdate+"')");
        ResultSet set6= st.executeQuery("select team_name from team");
        System.out.println("Employee must be associated to how many
teams");
        int no_of_teams=Integer.parseInt(br.readLine());
        System.out.println("Employee has to be associated to which team
from below list");
        while(set6.next())
        {
            System.out.println(set6.getString(1));
        }

        for(int i=1; i<=no_of_teams;i++)
        {
            System.out.println("Enter " +i+"st team name");
            String user_tname5=(br.readLine());
            System.out.println("Enter report description");
            String r_desc=(br.readLine());
            System.out.println("Enter report date");
            String r_date=(br.readLine());
            st.executeUpdate("insert into Report
values(""+p_ssn5+"','"+user_tname5+"','"+r_desc+"','"+r_date+"')");
        }
        break;
    //Enter an expense charged by an employee
    case 6: System.out.println("List of Employees...");
        ResultSet set7= st.executeQuery("select P_SSN,P_name
from person where p_ssn in(Select p_ssn from Employee)");
        while(set7.next())
        {
            System.out.println(set7.getString(1));
        }
        System.out.println("Enter Employee ssn for whom expense must be
recorded");
        int e_ssn=Integer.parseInt(br.readLine());
        System.out.println("Enter date of expense");
        String expense_date=(br.readLine());
        System.out.println("Enter amount of expenditure");
        float expense_amount=Float.parseFloat(br.readLine());
        System.out.println("Enter description of expense");
        String expense_desc=(br.readLine());

```

```

        st.executeUpdate("insert into Expense
values(""+e_ssn+"','"+expense_date+"','"+expense_amount+"','"+expense_desc+"')");
        break;
    //Enter a new organization and associate it to one or more PAN teams
    case 7: System.out.println("Enter Organization name");
        String o_name=(br.readLine());
        System.out.println("Enter organization address");
        String o_add=(br.readLine());
        System.out.println("Enter organization phone number");
        float o_phno=Float.parseFloat(br.readLine());
        System.out.println("Enter contact person of that organization ");
        String o_contact=(br.readLine());
        st.executeUpdate("insert into Ext_Org
values(""+o_name+"','"+o_add+"','"+o_phno+"','"+o_contact+"')");
        System.out.println("How many teams the organization wants to
sponsor");
        int no_of_team=Integer.parseInt(br.readLine());
        ResultSet set8= st.executeQuery("select team_name from team");
        System.out.println("list of teams...");
        while(set8.next())
        {
            System.out.println(set8.getString(1));
        }
        for(int i=1;i<=no_of_team;i++)
        {
            System.out.println("Name the "+i+"st team the organization wants
to sponsor");
            String o_tname=(br.readLine());
            st.executeUpdate("insert into Sponsors
values(""+o_name+"','"+o_tname+"')");
        }
        break;
    //Enter a new donor and associate him or her with several donations
    case 8: int p_ssn8=persondata();
        System.out.println("How many donations the donor has
made");
        int no_of_donation=Integer.parseInt(br.readLine());
        for(int i=1;i<=no_of_donation;i++)
        {
            System.out.println("Enter details of "+i+"th donor");
            System.out.println("Type 'yes' if the donor remains to be
anonymous otherwise 'no'");
            String anon=(br.readLine());
            st.executeUpdate("insert into Donor
values(""+p_ssn8+"','"+anon+"')");
        }

```

```

        System.out.println("Hit 1 for cheque payment and 0 for card
payment");
        int pay=Integer.parseInt(br.readLine());
        System.out.println("Enter Date of donation");
        String d_date=(br.readLine());
        System.out.println("Enter donation amount");
        float d_amount=Float.parseFloat(br.readLine());
        System.out.println("Enter donation type");
        String d_type=(br.readLine());
        System.out.println("Enter fund name ");
        String d_fundname=(br.readLine());
        if(pay==1)
        {
            System.out.println("Enter cheque number ");
            int d_chqno=Integer.parseInt(br.readLine());
            st.executeUpdate("insert into cheque
values("+p_ssn8+","+d_date+","+d_amount+","+d_type+","+d_fundname+","+d_chqno+"
')");
        }
        else
        {
            System.out.println("Enter card number ");
            int ca_no=Integer.parseInt(br.readLine());
            System.out.println("Enter card type ");
            String ca_type=(br.readLine());
            System.out.println("Enter card expiry date ");
            String ca_exptime=(br.readLine());
            st.executeUpdate("insert into card
values("+p_ssn8+","+d_date+","+d_amount+","+d_type+","+d_fundname+","+ca_no+",
"+ca_type+","+ca_exptime+ ")");
        }
    }
    break;
//Enter a new organization and associate it with several donations
case 9: System.out.println("Enter Organization name");
        String o_name9=(br.readLine());
        System.out.println("Enter organization address");
        String o_addr9=(br.readLine());
        System.out.println("Enter organization phone number");
        float o_phno9=Float.parseFloat(br.readLine());
        System.out.println("Enter contact person of that organization ");
        String o_contact9=(br.readLine());
        st.executeUpdate("insert into Ext_Org
values("+o_name9+","+o_addr9+","+o_phno9+","+o_contact9+ ")");
        System.out.println("How many donations the the donor has
made");

```

```

        int no_of_don=Integer.parseInt(br.readLine());
        for(int i=1;i<=no_of_don;i++)
        {
            System.out.println("Enter details of "+i+"th donor");
            System.out.println("Type 'yes' if the donor remains to be
anonymous otherwise 'no'");
            String anon9=(br.readLine());
            st.executeUpdate("insert into Org_donors
values(""+o_name9+"','"+anon9+"')");
            System.out.println("Hit 1 for cheque payment and 0 for card
payment");
            int pay9=Integer.parseInt(br.readLine());
            System.out.println("Enter Date of donation");
            String d_date9=(br.readLine());
            System.out.println("Enter donation amount");
            float d_amount9=Float.parseFloat(br.readLine());
            System.out.println("Enter donation type");
            String d_type9=(br.readLine());
            System.out.println("Enter fund name ");
            String d_fundname9=(br.readLine());
            if(pay9==1)
            {
                System.out.println("Enter cheque number ");
                int d_cheqno9=Integer.parseInt(br.readLine());
                st.executeUpdate("insert into org_donation_cheque
values(""+o_name9+"','"+d_date9+"','"+d_amount9+"','"+d_type9+"','"+d_fundname9+"','"+d_ch
eqno9+"')");
            }
            else
            {
                System.out.println("Enter card number ");
                int ca_no9=Integer.parseInt(br.readLine());
                System.out.println("Enter card type ");
                String ca_type9=(br.readLine());
                System.out.println("Enter card expiry date ");
                String ca_exdate9=(br.readLine());
                st.executeUpdate("insert into Org_donation_card
values(""+o_name9+"','"+d_date9+"','"+d_amount9+"','"+d_type9+"','"+d_fundname9+"','"+ca_n
o9+"','"+ca_type9+"','"+ca_exdate9+"')");
            }
        }
        break;
    //Retrieve the name and phone number of the doctor of a particular client
    case 10: ResultSet set10= st.executeQuery("select P_name from person where
P_SSN in(select P_SSN from client)");

```

```

        System.out.println("Enter the client name(from below list) for
whom doctor name must be retrieved ");
        while(set10.next())
        {
            System.out.println(set10.getString(1));
        }
        String Cl_name10=(br.readLine());
        ResultSet set11= st.executeQuery("select doc_name, doc_ph from client
where p_ssn in(select p_ssn from person where p_name='"+Cl_name10+"')");
        System.out.println("doctor name\tdoctor ph.no");
        while(set11.next())
        {
            System.out.println(set11.getString(1)+"\t\t "+set11.getString(2));
        }
        break;
    //Retrieve the total amount of expenses charged by each employee for a
particular period of time. The list should be sorted by the total amount of expenses
    case 11: System.out.println("Enter start of the period(dd-month-yyyy)");
        String start_date=(br.readLine());
        System.out.println("Enter end of the period(dd-month-yyyy)");
        String end_date=(br.readLine());
        ResultSet set12= st.executeQuery("select sum(expense_amount),
p_ssn from expense where expense_date between '"+start_date+"' and '"+end_date+"' group by
p_ssn order by sum(expense_amount)");
        System.out.println("total expense\temployee ssn");
        while(set12.next())
        {
            System.out.println(set12.getString(1)+"\t\t "+set12.getString(2));
        }
        break;
    //Retrieve the list of volunteers that are members of teams that support a
particular client
    case 12: System.out.println("Enter the client ssn number from the below list");
        ResultSet set13= st.executeQuery("select p_name, p_ssn from
person where p_ssn in(select p_ssn from client)");
        while(set13.next())
        {
            System.out.println(set13.getString(1)+"\t"+set13.getString(2));
        }
        int c_pssn12=Integer.parseInt(br.readLine());
        ResultSet set14= st.executeQuery("select p_name from person
where p_ssn in(select p_ssn from volunteer where p_ssn in(select p_ssn from serves where
team_name in(select team_name from cares where p_ssn='"+c_pssn12+"')))");
        System.out.println("List of volunteers are as follows");
        while(set14.next())
    {

```

```

        System.out.println(set14.getString(1));
    }
    break;
    //Retrieve the names and contact information of the clients that are supported by
    teams sponsored by an organization whose name starts with a letter between B and K. The client
    list should be sorted by name
    case 13: System.out.println("Name and contact information of client those are
    supported by team that are sponsored by organization having names with starting letter b to k");
    ResultSet set16= st.executeQuery("select p_name,
    mail_add,email_add,home_ph,work_ph,cell_ph from person where p_ssn in(select p_ssn from
    cares where team_name in(select team_name from sponsors where org_name in(select org_name
    from ext_org where org_name between 'b%' and 'k%')) order by p_name");
    System.out.println("Client name mail address home ph \twork
    ph \tcell ph");
    while(set16.next())
    {
        System.out.println(set16.getString(1)+"\t"+set16.getString(2)+"\t"+set16.getString(3)+"
        "\t"+set16.getString(4)+"\t"+set16.getString(5));
    }
    break;
    //Retrieve the name and total amount donated by donors that are also employees.
    The list should be sorted by the total amount of the donations, and indicate if each donor wishes
    to remain anonymous
    case 14: System.out.println("Retrieving the name and total amount...");
    System.out.println("name\t\tamount\t\tstatus");
    ResultSet set31=st.executeQuery("select P.p_name,X.M,X.stat
    from(select max(a)as M,p_ssn,stat from(select p.p_name,d.anon_status as
    stat,d.p_ssn,(ca.amount+c.amount)as a from person p,employee e,donor d,cheque c, card ca
    where d.p_ssn=e.p_ssn )k group by p_ssn,stat)X, person P where X.p_ssn=P.p_ssn");
    while(set31.next())
    {
        System.out.println("hi");

    System.out.println(set31.getString(1)+"\t"+set31.getString(2)+"\t"+set31.getString(3));
    }
    break;
    //For each team, retrieve the name and associated contact information of the
    volunteer that has worked the most total hours between March and June
    case 15: System.out.println("Retrieving the person name....");
    ResultSet set30= st.executeQuery("select
    p_name,mail_add,email_add,home_ph,work_ph,cell_ph from person,serves where
    person.p_ssn=serves.p_ssn and (serves.team_name,serves.hours) in (select
    team_name,max(hours) from serves where month in ('March','April','May','June') group by
    team_name)");
    while(set30.next())

```

```

    {

System.out.println(set30.getString(1)+"\t\t"+set30.getString(2)+"\t\t"+set30.getString(3)+"\t"+se
t30.getString(4)+"\t"+set30.getString(5)+"\t"+set30.getString(6));
    }
        break;
    //Increase the salary by 10% of all employees to whom more than one team must
report
    case 16: ResultSet set17= st.executeQuery("select * from employee");
                System.out.println("Employee ssn\temp employee salary\tmarital
status\thire date");
                while(set17.next())
                {
                    System.out.println(set17.getString(1)+"\t\t"+set17.getString(2)+"\t\t"+set17.getString(3)+"
"\t"+set17.getString(4));
                }
                    System.out.println("Updating the salary...");
                    st.executeQuery("update employee set
e_salary=e_salary+(0.1*e_salary) where p_ssn in(select p_ssn from report group by p_ssn
having count(team_name)>1)");
                    System.out.println("Salary updated");
                    ResultSet set18= st.executeQuery("select * from employee");
                    while(set18.next())
{
                    System.out.println(set18.getString(1)+"\t\t"+set18.getString(2)+"\t\t"+set18.getString(3)+"
"\t"+set18.getString(4));
}
                    break;
    //Delete all clients who do not have health insurance and whose value of
importance for transportation is less than 5
    case 17: ResultSet s19= st.executeQuery("select * from client");
                System.out.println("Displaying client table");
                System.out.println("client ssn doctor name attorney name doctor
ph attorney ph client date");
                while(s19.next())
{
System.out.println(s19.getString(1)+"\t"+s19.getString(2)+"\t"+s19.getString(3)+"\t"+s19.getStri
ng(4)+"\t"+s19.getString(5)+"\t"+s19.getString(6));
}
                st.executeQuery("delete from client where p_ssn not in( select
p_ssn from insurance_policy where p_type='health insurance') and p_ssn in(select p_ssn from
needs where type='transportation' and value between 1 and 10)");
                ResultSet set20= st.executeQuery("select * from client");

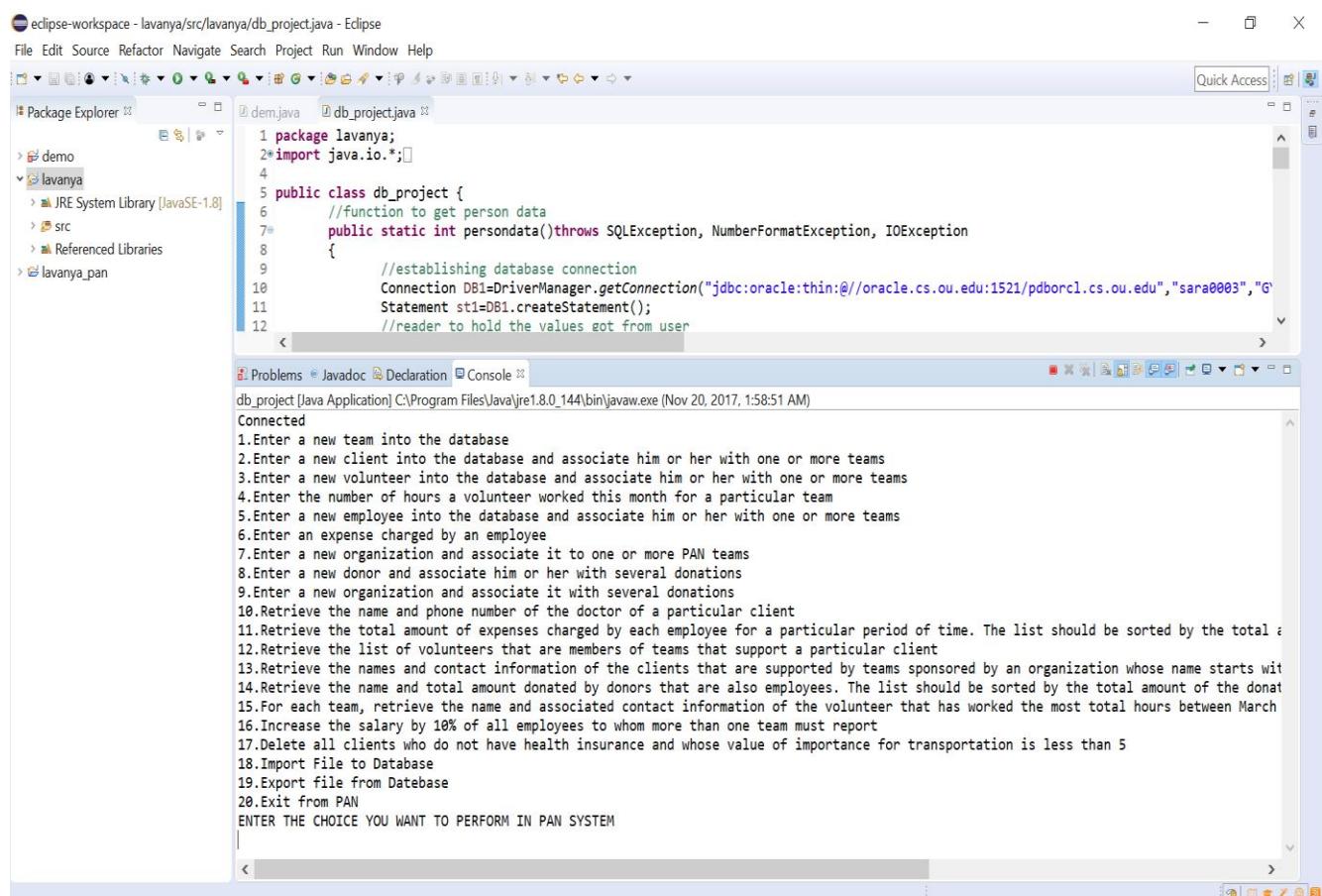
```

```

        System.out.println("Displaying client table after deletion");
        System.out.println("client ssn doctor name attorney name doctor
ph attorney ph client date");
        while(set20.next())
        {
System.out.println(set20.getString(1)+"\t"+set20.getString(2)+"\t"+set20.getString(3)+"\t"+set20
.getString(4)+"\t"+set20.getString(5)+"\t"+set20.getString(6));
        }
        break;
//Import File to Database
case 18: System.out.println("Enter import file name: ");
        String file_name=br.readLine();
        FileInputStream fstream = new FileInputStream("D:\\"+file_name);
        DataInputStream in = new DataInputStream(fstream);
        BufferedReader br1 = new BufferedReader(new InputStreamReader(in));
        String i_data;
        while ((i_data = br1.readLine()) != null)
        {
String data[] = i_data.split(";");
        String e_p_ssn = data[0];
        String emg_name = data[1];
        String emg_contact = data[2];
        String emg_relation = data[3];
        st.executeUpdate("insert into emergency_contact
values('"+e_p_ssn+"','"+" "+emg_name+"','"+" "+emg_contact + "','" "+emg_relation+ "')");
        System.out.println(" One row inserted successfully");
        }
        System.out.println("File imported successfully!!!!");
        break;
//Export File to Database
case 19:ResultSet set21 = st.executeQuery("select * from ext_org");
        String string = null;
        System.out.println("Enter output file name: ");
        String file_name1=br.readLine();
        BufferedWriter export = new BufferedWriter(new
FileWriter("D:\\"+file_name1));
        while(set21.next())
        {
string= set21.getString("org_name")+
"+set21.getString("org_add")+" "+set21.getString("org_ph")+" "+set21.getString("org_contact");
        export.write("\n");
        export.write(string);
        export.write("\n");
        System.out.println(" One row inserted successfully!");
        }
    
```

```
        System.out.println(" File exported succesfully!!!!");
        export.close();
    }
    break;
}
//To exit from PAN
case 20: System.exit(0);
break;
}
}while(n<20);
//Close the database connectivity
DB.close();
}
//To catch any exception in database connectivity
catch(SQLException e) {
    e.printStackTrace();
}
}
```

Task 5.2: Compilation of Program



TASK 6

Task 6.1: Script file showing the testing of query 1

Connected

- 1.Enter a new team into the database
- 2.Enter a new client into the database and associate him or her with one or more teams
- 3.Enter a new volunteer into the database and associate him or her with one or more teams
- 4.Enter the number of hours a volunteer worked this month for a particular team
- 5.Enter a new employee into the database and associate him or her with one or more teams
- 6.Enter an expense charged by an employee
- 7.Enter a new organization and associate it to one or more PAN teams
- 8.Enter a new donor and associate him or her with several donations
- 9.Enter a new organization and associate it with several donations
- 10.Retrieve the name and phone number of the doctor of a particular client
- 11.Retrieve the total amount of expenses charged by each employee for a particular period of time. The list should be sorted by the total amount of expenses
- 12.Retrieve the list of volunteers that are members of teams that support a particular client
- 13.Retrieve the names and contact information of the clients that are supported by teams sponsored by an organization whose name starts with a letter between B and K. The client list should be sorted by name
- 14.Retrieve the name and total amount donated by donors that are also employees. The list should be sorted by the total amount of the donations, and indicate if each donor wishes to remain anonymous
- 15.For each team, retrieve the name and associated contact information of the volunteer that has worked the most total hours between March and June
- 16.Increase the salary by 10% of all employees to whom more than one team must report
- 17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5
- 18.Import File to Database
- 19.Export file from Database
- 20.Exit from PAN

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

1

Enter the Team name

Arizona

Enter the Team type

Working

Enter the Team formed date

12-jan-2017

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

1

Enter the Team name

California

Enter the Team type

Playing

Enter the Team formed date

30-dec-2016

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

1

Enter the Team name

Oklahoma

Enter the Team type

Admin

Enter the Team formed date

15-May-2017

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

1

Enter the Team name

Texas

Enter the Team type

Information

Enter the Team formed date

10-june-2017

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

1

Enter the Team name

Kansas

Enter the Team type

Dev

Enter the Team formed date

11-feb-2017

```
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Package Explorer db_project.java dem.java
> demo
lavanya
  > JRE System Library [JavaSE-1.8]
  > src
    > lavanya
      > db_project.java
      > dem.java
  > Referenced Libraries
lavanya_pan
  > JRE System Library [JavaSE-1.8]
  > src

59 Statement();
60
61 ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM";
62 1.Enter a new team into the database";
63 2.Enter a new client into the database and associate him or her with one or more teams";
64 3.Enter a new volunteer into the database and associate him or her with one or more teams";
65 4.Enter the number of hours a volunteer worked this month for a particular team";
66 5.Enter a new employee into the database and associate him or her with one or more teams";
67 6.Enter an expense charged by an employee";
68 7.Enter a new organization and associate it to one or more PAN teams";
69 8.Enter a new donor and associate him or her with several donations";
70 9.Enter a new organization and associate it with several donations";
71 10.Retrieve the name and phone number of the doctor of a particular client";
72 11.Retrieve the total amount of expenses charged by each employee for a particular period of time. The list should be sorted by the total amount;
73 12.Retrieve the list of volunteers that are members of teams that support a particular client";
74 13.Retrieve the names and contact information of the clients that are supported by teams sponsored by an organization with a specific name";
75 14.Retrieve the name and total amount donated by donors that are also employees. The list should be sorted by the total amount;
76 15.For each team, retrieve the name and associated contact information of the volunteer that has worked the most total hours";
77 16.Increase the salary by 10% of all employees to whom more than one team must report";
78 17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5";
79 18.Import File to Database";
80 19.Export file from Database";

20.Exit from PAN
1
Enter the Team name
Kansas
Enter the Team type
Dev
Enter the Team formed date
11-feb-2017
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
1 Enter a new team into the database
```

Team Table

	TEAM_NAME	TEAM_TYPE	T_DATE
1	Arizona	Working	12-JAN-17
2	California	Playing	30-DEC-16
3	Oklahoma	Admin	15-MAY-17
4	Texas	Information	10-JUN-17
5	Kansas	Dev	11-FEB-17

Task 6.2: Script file showing the testing of query 2

```
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
2
Enter the Person SSN
5238
Enter the Person name
saranya
Enter the Person DOB
09-dec-1997
Enter the Person Race
asian
Enter the Person Gender
f
Enter the Person Profession
lyricist
Enter the Person Contact details..

Enter the Person mailing address
3012
Enter the Person Email
sarn@gmail.com
Enter the Person Home_ph_no
265783
Enter the Person Work_ph_no
543876
Enter the Person Cell_ph_no
234987
Enter 1 if Person should be added in mailing list otherwise 0
1
Now Enter the Client details....
Enter the Doctor name
maliza
Enter the Attorney name
manaya
Enter the Doctor phone number
345876
```

Enter the Attorney phone number
234098

Enter the client joining date
25-jan-2017

Client must be associated to how many teams?
1

To which team client must be associated from below listed teams

Arizona
California
Kansas
Oklahoma
Texas

Enter 1st team name
Texas

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
2

Enter the Person SSN
6701

Enter the Person name
john

Enter the Person DOB
09-june-2017

Enter the Person Race
american

Enter the Person Gender
m

Enter the Person Profession
engineer

Enter the Person Contact details..

Enter the Person mailing address
1017

Enter the Person Email
john@gmail.com

Enter the Person Home_ph_no
265786

Enter the Person Work_ph_no
145987

Enter the Person Cell_ph_no
135985

Enter 1 if Person should be added in mailing list otherwise 0
1

Now Enter the Client details....

Enter the Doctor name
adam

Enter the Attorney name
ashley

Enter the Doctor phone number
167423

Enter the Attorney phone number

985255

Enter the client joining date

10-june-2016

Client must be associated to how many teams?

1

To which team client must be associated from below listed teams

Arizona

California

Kansas

Oklahoma

Texas

Enter 1st team name

California

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

2

Enter the Person SSN

6456

Enter the Person name

aliza

Enter the Person DOB

20-oct-1986

Enter the Person Race

american

Enter the Person Gender

f

Enter the Person Profession

lawer

Enter the Person Contact details..

Enter the Person mailing address

971

Enter the Person Email

aliza@gmail.com

Enter the Person Home_ph_no

165347

Enter the Person Work_ph_no

984237

Enter the Person Cell_ph_no

176234

Enter 1 if Person should be added in mailing list otherwise 0

0

Now Enter the Client details....

Enter the Doctor name

myles

Enter the Attorney name

stupek

Enter the Doctor phone number

654123

Enter the Attorney phone number

985234

Enter the client joining date
11-july-2016
Client must be associated to how many teams?
1
To which team client must be associated from below listed teams
Arizona
California
Kansas
Oklahoma
Texas
Enter 1st team name
Kansas
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
2
Enter the Person SSN
6832
Enter the Person name
suzan
Enter the Person DOB
25-nov-1996
Enter the Person Race
american
Enter the Person Gender
f
Enter the Person Profession
artist
Enter the Person Contact details..

Enter the Person mailing address
500f
Enter the Person Email
suzan@gmail.com
Enter the Person Home_ph_no
675123
Enter the Person Work_ph_no
874235
Enter the Person Cell_ph_no
176345
Enter 1 if Person should be added in mailing list otherwise 0
1
Now Enter the Client details....
Enter the Doctor name
tyler
Enter the Attorney name
tony
Enter the Doctor phone number
254387
Enter the Attorney phone number
678456
Enter the client joining date

08-april-2017

Client must be associated to how many teams?

2

To which team client must be associated from below listed teams

Arizona

California

Kansas

Oklahoma

Texas

Enter 1st team name

Arizona

Enter 2st team name

Texas

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

2

Enter the Person SSN

6785

Enter the Person name

lavanya

Enter the Person DOB

30-dec-1995

Enter the Person Race

asian

Enter the Person Gender

f

Enter the Person Profession

chef

Enter the Person Contact details..

Enter the Person mailing address

1017h

Enter the Person Email

lav@gmail.com

Enter the Person Home_ph_no

276543

Enter the Person Work_ph_no

897345

Enter the Person Cell_ph_no

167453

Enter 1 if Person should be added in mailing list otherwise 0

1

Now Enter the Client details....

Enter the Doctor name

geeta

Enter the Attorney name

james

Enter the Doctor phone number

546987

Enter the Attorney phone number

347624

Enter the client joining date

08-aug-2017

Client must be associated to how many teams?

1

To which team client must be associated from below listed teams

Arizona

California

Kansas

Oklahoma

Texas

Enter 1st team name

Oklahoma

```
System.out.println("Enter the Person mailing address");
String p_mail=(br1.readLine());
System.out.println("Enter the Person Email");
String p_email=(br1.readLine());
System.out.println("Enter the Person Home_ph_no");
int p_hph=Integer.parseInt(br1.readLine());
System.out.println("Enter the Person Work_ph_no");
int p_wph=Integer.parseInt(br1.readLine());
System.out.println("Enter the Person Cell_ph_no");
int p_cph=Integer.parseInt(br1.readLine());
System.out.println("Enter 1 if Person should be added in mailing list otherwise 0");
int p_list=Integer.parseInt(br1.readLine());
stmt.executeUpdate("insert into Person values ('"+p_ssn+"','"+p_name+"','"+p_dob+"','"+p_race+"','"+p_gender+"','"+p_pro+
);
DB1.close();
return p_ssn;
}
public static void main(String[] args) throws NumberFormatException, IOException {
BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
int n;
//Loading Oracle Driver
try {

```

db.project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 11:11:34 AM)

17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5
18.Import File to Database
19.Export file from Database
20.Exit from PAN
2
Enter the Person SSN
6785
Enter the Person name
lavanya
Enter the Person DOB
30-dec-1995
Enter the Person Race

Person Table

	P_SSN	P_NAME	DATE_OF_BIRTH	RACE	GENDER	PROFESSION	MAIL_ADD	EMAIL_ADD	HOME_PH	WORK_PH	CELL_PH	MAIL_LIST
1	6832	suzan	25-NOV-96	american	f	artist	500f	suzan@gmail.com	675123	874235	176345	1
2	5238	saranya	09-DEC-97	asian	f	lyricist	3012	sarn@gmail.com	265783	543876	234987	1
3	6701	john	09-JUN-17	american	m	engineer	1017	john@gmail.com	265786	145987	135985	1
4	6456	aliza	20-OCT-86	american	f	lawer	971	aliza@gmail.com	165347	984237	176234	0
5	6785	lavanya	30-DEC-95	asian	f	chef	1017h	lav@gmail.com	276543	897345	167453	1

Client Table

	P_SSN	DOC_NAME	ATT_NAME	DOC_PH	ATT_PH	C_DATE
1	5238	maliza	manaya	345876	234098	25-JAN-17
2	6701	adam	ashley	167423	985255	10-JUN-16
3	6456	myles	stupek	654123	985234	11-JUL-16
4	6832	tyler	tony	254387	678456	08-APR-17
5	6785	geeta	james	546987	347624	08-AUG-17

Team Table

	P_SSN	TEAM_NAME	STATUS
1	5238	Texas	1
2	6701	California	1
3	6456	Kansas	1
4	6832	Arizona	1
5	6832	Texas	1
6	6785	Oklahoma	1

Task 6.3: Script file showing the testing of query 3

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

3

Enter the Person SSN

9374

Enter the Person name

suju

Enter the Person DOB

24-aug-1980

Enter the Person Race

asian

Enter the Person Gender

m

Enter the Person Profession

professor

Enter the Person Contact details..

Enter the Person mailing address

726g

Enter the Person Email

suju@gmail.com

Enter the Person Home_ph_no

276547

Enter the Person Work_ph_no

987345

Enter the Person Cell_ph_no
890612

Enter 1 if Person should be added in mailing list otherwise 0
1

Now Enter the Volunteer details....

Enter the date that person joined PAN
15-nov-2016

Enter the Training join date
16-nov-2016

Enter the Training Location
norman

Volunteer must be associated to how many teams?
2

To which team Voluteer must be associated from below listed teams

Arizona
California
Kansas
Oklahoma
Texas

Enter 1st team name
Kansas

Enter the month the volunteer worked
december

Enter number of hours worked for specified month
20

Enter 2st team name
California

Enter the month the volunteer worked
november

Enter number of hours worked for specified month
30

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
3

Enter the Person SSN
4567

Enter the Person name
praveen

Enter the Person DOB
30-nov-1990

Enter the Person Race
asian

Enter the Person Gender
m

Enter the Person Profession
doctor

Enter the Person Contact details..

Enter the Person mailing address
768g

Enter the Person Email

pra@gmail.com
Enter the Person Home_ph_no
765234
Enter the Person Work_ph_no
876234
Enter the Person Cell_ph_no
986234
Enter 1 if Person should be added in mailing list otherwise 0
0
Now Enter the Volunteer details....
Enter the date that person joined PAN
14-feb-2017
Enter the Training join date
15-feb-2017
Enter the Training Location
okc
Volunteer must be associated to how many teams?
1
To which team Voluteer must be associated from below listed teams
Arizona
California
Kansas
Oklahoma
Texas
Enter 1st team name
Texas
Enter the month the volunteer worked
september
Enter number of hours worked for specified month
21
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
3
Enter the Person SSN
6608
Enter the Person name
diya
Enter the Person DOB
18-june-2000
Enter the Person Race
american
Enter the Person Gender
f
Enter the Person Profession
student
Enter the Person Contact details..

Enter the Person mailing address
876k
Enter the Person Email
diya@gmail.com

Enter the Person Home_ph_no
657342

Enter the Person Work_ph_no
986234

Enter the Person Cell_ph_no
980651

Enter 1 if Person should be added in mailing list otherwise 0
1

Now Enter the Volunteer details....

Enter the date that person joined PAN
10-march-2017

Enter the Training join date
11-mar-2017

Enter the Training Location
edmund

Volunteer must be associated to how many teams?
1

To which team Voluteer must be associated from below listed teams

Arizona

California

Kansas

Oklahoma

Texas

Enter 1st team name
Arizona

Enter the month the volunteer worked
april

Enter number of hours worked for specified month
60

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
3

Enter the Person SSN
8765

Enter the Person name
dev

Enter the Person DOB
31-dec-2017

Enter the Person Race
american

Enter the Person Gender
m

Enter the Person Profession
student

Enter the Person Contact details..

Enter the Person mailing address
981e

Enter the Person Email
dev@yahoo.com

Enter the Person Home_ph_no

783267
Enter the Person Work_ph_no
981278
Enter the Person Cell_ph_no
856734
Enter 1 if Person should be added in mailing list otherwise 0
0
Now Enter the Volunteer details....
Enter the date that person joined PAN
16-may-2017
Enter the Training join date
18-may-2017
Enter the Training Location
norman
Volunteer must be associated to how many teams?
2
To which team Voluteer must be associated from below listed teams
Arizona
California
Kansas
Oklahoma
Texas
Enter 1st team name
Oklahoma
Enter the month the volunteer worked
november
Enter number of hours worked for specified month
50
Enter 2st team name
Kansas
Enter the month the volunteer worked
october
Enter number of hours worked for specified month
75
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
3
Enter the Person SSN
7780
Enter the Person name
evnosh
Enter the Person DOB
16-june-1985
Enter the Person Race
african
Enter the Person Gender
m
Enter the Person Profession
director
Enter the Person Contact details..

Enter the Person mailing address

657j

Enter the Person Email

evn@gmail.com

Enter the Person Home_ph_no

678356

Enter the Person Work_ph_no

986125

Enter the Person Cell_ph_no

761209

Enter 1 if Person should be added in mailing list otherwise 0

1

Now Enter the Volunteer details....

Enter the date that person joined PAN

28-jan-2017

Enter the Training join date

02-feb-2017

Enter the Training Location

okc

Volunteer must be associated to how many teams?

1

To which team Voluteer must be associated from below listed teams

Arizona

California

Kansas

Oklahoma

Texas

Enter 1st team name

Texas

Enter the month the volunteer worked

september

Enter number of hours worked for specified month

78

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

20

```
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Package Explorer
dem.java db_project.java
133 :()
134
135 println(set2.getString(1));
136
137 for(int i=0;i<n_o_teams;i++)
138
139 itln("Enter "+i+"st team name");
140 imes=(br.readLine());
141 itln("Enter the month the volunteer worked");
142 months=(br.readLine());
143 itln("Enter number of hours worked for specified month");
144 hours=(br.readLine());
145 xe("insert into Serves values(\""+pv_ssn+"','"+user_tname3+"','"+user_v_hours+"',1,\""+user_v_month+"\")");
146
147
148 itln("Enter Volunteer SSN number for whom the hour must be recorded");
149 st.executeQuery("select P_name,P_SSN from Person where P_SSN in(select P_SSN from volunteer)");
150 itln("list of Volunteers...");
151
152
153 print(set3.getString(1));
154 print("\t"+set3.getString(2)+"\n");
<
db.project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 12:49:53 PM)
ENTER THE MONTH THE VOLUNTEER WORKED
november
Enter number of hours worked for specified month
50
Enter 2st team name
Kansas
Enter the month the volunteer worked
october
Enter number of hours worked for specified month
75
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
1.Enter a new team into the database
2.Enter a new client into the database and associate him or her with one or more teams
<
```

Person Table

	P_SSN	P_NAME	DATE_OF_BIRTH	RACE	GENDER	PROFESSION	MAIL_ADD	EMAIL_ADD	HOME_PH	WORK_PH	CELL_PH	MAIL_LIST
1	6608	diya	18-JUN-00	american	f	student	876k	diya@gmail.com	657342	986234	980651	1
2	8765	dev	31-DEC-17	american	m	student	981e	dev@yahoo.com	783267	981278	856734	0
3	6832	suzan	25-NOV-96	american	f	artist	500f	suzan@gmail.com	675123	874235	176345	1
4	9374	suju	24-AUG-80	asian	m	professor	726g	suju@gmail.com	276547	987345	890612	1
5	4567	praveen	30-NOV-90	asian	m	doctor	768g	pra@gmail.com	765234	876234	986234	0
6	5238	saranya	09-DEC-97	asian	f	lyricist	3012	sarn@gmail.com	265783	543876	234987	1
7	6701	john	09-JUN-17	american	m	engineer	1017	john@gmail.com	265786	145987	135985	1
8	6456	aliza	20-OCT-86	american	f	lawer	971	aliza@gmail.com	165347	984237	176234	0
9	2234	vino	12-JAN-97	asian	f	student	1105	vino@gmail.com	264578	245987	165986	1
10	7780	evnosh	16-JUN-85	african	m	director	657j	evn@gmail.com	678356	986125	761209	1

Volunteer table

	P_SSN	JOIN_DATE	TRAIN_DATE	TRAIN_LOC
1	6608	10-MAR-17	11-MAR-17	edmund
2	8765	16-MAY-17	18-MAY-17	norman
3	9374	15-NOV-16	16-NOV-16	norman
4	4567	14-FEB-17	15-FEB-17	okc
5	7780	28-JAN-17	02-FEB-17	okc

Team Table

	P_SSN	TEAM_NAME	HOURS	ACTIVE	MONTH
1	4567	Texas	21	1	september
2	6608	Arizona	60	1	april
3	9374	Kansas	20	1	december
4	9374	California	30	1	november
5	8765	Oklahoma	50	1	november
6	8765	Kansas	75	1	october
7	7780	Texas	78	1	september

Task 6.4: Script file showing the testing of query 4

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

4

Enter Volunteer SSN number for whom the hour must be recorded
list of Volunteers...

diya 6608
dev 8765
suju 9374
praveen 4567
evnosh 7780
6608

Enter team name for which volunteer date must be recorded from below list of teams

Arizona
California
Kansas
Oklahoma
Texas
Oklahoma

Enter the hours worked

40

Enter the month

April

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

4

Enter Volunteer SSN number for whom the hour must be recorded
list of Volunteers...

diya 6608
dev 8765
suju 9374
praveen 4567
evnosh 7780
8765

Enter team name for which volunteer date must be recorded from below list of teams

Arizona
California

Kansas
Oklahoma
Texas
Oklahoma
Enter the hours worked
90
Enter the month
September
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
4
Enter Volunteer SSN number for whom the hour must be recorded
list of Volunteers...
diya 6608
dev 8765
suju 9374
praveen 4567
evnosh 7780
9374
Enter team name for which volunteer date must be recorded from below list of teams
Arizona
California
Kansas
Oklahoma
Texas
Arizona
Enter the hours worked
30
Enter the month
January
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
4
Enter Volunteer SSN number for whom the hour must be recorded
list of Volunteers...
diya 6608
dev 8765
suju 9374
praveen 4567
evnosh 7780
4567
Enter team name for which volunteer date must be recorded from below list of teams
Arizona
California
Kansas
Oklahoma
Texas
Texas
Enter the hours worked
20

Enter the month
February

The screenshot shows the Eclipse IDE interface. In the top menu bar, the path 'eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse' is visible. The 'File Edit Source Refactor Navigate Search Project Run Window Help' menu is open. The 'Package Explorer' view on the left shows three projects: 'demo', 'lavanya', and 'lavanya_pan'. The 'db_project.java' file is selected in the editor, with line numbers 155 to 176 visible. The code implements a database query to select team names, reads user input for volunteer hours and team name, and inserts data into a 'serves' table. The 'Console' tab at the bottom shows the following interaction:

```
<terminated> db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 1:18:52 PM)
suju 9374
praveen 4567
evnosh 7780
4567
Enter team name for which volunteer date must be recorded from below list of teams
Arizona
California
Kansas
Oklahoma
Texas
Texas
Enter the hours worked
~>
```

Team Table

	P_SSN	TEAM_NAME	HOURS	ACTIVE	MONTH
1	9374	Arizona	30	1	january
2	4567	Texas	20	1	february
3	6608	Oklahoma	40	1	april
4	8765	Oklahoma	90	1	september
5	4567	Texas	21	1	september
6	6608	Arizona	60	1	april
7	9374	Kansas	20	1	december
8	9374	California	30	1	november
9	8765	Oklahoma	50	1	november
10	8765	Kansas	75	1	october
11	7780	Texas	78	1	september
12	7780	Arizona	20	1	april

Task 6.5: Script file showing the testing of query 5

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

5

Enter the Person SSN

6403

Enter the Person name

muthu

Enter the Person DOB
01-july-2017
Enter the Person Race
asian
Enter the Person Gender
m
Enter the Person Profession
clerk
Enter the Person Contact details..

Enter the Person mailing address
112m
Enter the Person Email
muthu@gmail.com
Enter the Person Home_ph_no
986253
Enter the Person Work_ph_no
983561
Enter the Person Cell_ph_no
156275
Enter 1 if Person should be added in mailing list otherwise 0
1
Now Enter the Employee details....
Enter the employee Salary
50000
Enter the Employee Marital status
married
Enter the Employee hired date
12-feb-2017
Employee must be associated to how many teams
2
Employee has to be associated to which team from below list
Arizona
California
Kansas
Oklahoma
Texas
Enter1st team name
California
Enter report description
initial discussion
Enter report date
10-nov-2016
Enter2st team name
Arizona
Enter report description
event making
Enter report date
26-march-2017

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

5
Enter the Person SSN
6524
Enter the Person name
krishek
Enter the Person DOB
04-march-1992
Enter the Person Race
hispanic
Enter the Person Gender
m
Enter the Person Profession
assistant
Enter the Person Contact details..

Enter the Person mailing address
348k
Enter the Person Email
kris@gmail.com
Enter the Person Home_ph_no
287456
Enter the Person Work_ph_no
097154
Enter the Person Cell_ph_no
871425
Enter 1 if Person should be added in mailing list otherwise 0
0
Now Enter the Employee details....
Enter the employee Salary
30000
Enter the Employee Marital status
single
Enter the Employee hired date
27-sep-2016
Employee must be associated to how many teams
1
Employee has to be associated to which team from below list
Arizona
California
Kansas
Oklahoma
Texas
Enter1st team name
Kansas
Enter report description
blood donation
Enter report date
20-aug-2016
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
5

Enter the Person SSN
6809
Enter the Person name
abby
Enter the Person DOB
19-july-1990
Enter the Person Race
american
Enter the Person Gender
f
Enter the Person Profession
cook
Enter the Person Contact details..

Enter the Person mailing address
112a
Enter the Person Email
abby@gmail.com
Enter the Person Home_ph_no
276487
Enter the Person Work_ph_no
091456
Enter the Person Cell_ph_no
672345
Enter 1 if Person should be added in mailing list otherwise 0
1
Now Enter the Employee details....
Enter the employee Salary
10500
Enter the Employee Marital status
single
Enter the Employee hired date
20-april-2016
Employee must be associated to how many teams
1
Employee has to be associated to which team from below list
Arizona
California
Kansas
Oklahoma
Texas
Enter 1st team name
Texas
Enter report description
awareness
Enter report date
24-jan-2017
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
5
Enter the Person SSN

7801
Enter the Person name
na
Enter the Person DOB
14-aug-1985
Enter the Person Race
american
Enter the Person Gender
f
Enter the Person Profession
staff
Enter the Person Contact details..

Enter the Person mailing address
836w
Enter the Person Email
na@gmail.com
Enter the Person Home_ph_no
287356
Enter the Person Work_ph_no
981537
Enter the Person Cell_ph_no
836492
Enter 1 if Person should be added in mailing list otherwise 0
1
Now Enter the Employee details....
Enter the employee Salary
61000
Enter the Employee Marital status
not married
Enter the Employee hired date
12-oct-2016
Employee must be associated to how many teams
2
Employee has to be associated to which team from below list
Arizona
California
Kansas
Oklahoma
Texas
Enter1st team name
California
Enter report description
club
Enter report date
02-march-2016
Enter2st team name
Texas
Enter report description
festival week

Enter report date
29-aug-2016
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
5
Enter the Person SSN
7802
Enter the Person name
chetan
Enter the Person DOB
23-jan-1980
Enter the Person Race
asian
Enter the Person Gender
m
Enter the Person Profession
receptionist
Enter the Person Contact details..

Enter the Person mailing address
286k
Enter the Person Email
chet@gmail.com
Enter the Person Home_ph_no
289465
Enter the Person Work_ph_no
257398
Enter the Person Cell_ph_no
635109
Enter 1 if Person should be added in mailing list otherwise 0
1
Now Enter the Employee details....
Enter the employee Salary
40000
Enter the Employee Marital status
married
Enter the Employee hired date
12-dec-2016
Employee must be associated to how many teams
1
Employee has to be associated to which team from below list
Arizona
California
Kansas
Oklahoma
Texas
Enter 1st team name
Oklahoma
Enter report description
cash missing
Enter report date

19-march-2017

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer dem.java db_project.java Quick Access
184 System.out.println("Employee must be associated to how many teams");
185 int no_of_teams=Integer.parseInt(br.readLine());
186 System.out.println("Employee has to be associated to which team from below list");
187 while(set6.next())
188 {
189     System.out.println(set6.getString(1));
190 }
191
192 for(int i=1; i<=no_of_teams;i++)
193 {
194     System.out.println("Enter "+i+"st team name");
195     String user_tname5=(br.readLine());
196     System.out.println("Enter report description");
197     String r_desc=(br.readLine());
198     System.out.println("Enter report date");
199     String r_date=(br.readLine());
200     st.executeUpdate("insert into Report values ('"+p_ssn5+"','"+user_tname5+"','"+r_desc+"','"+r_date+"')");
201 }
202 break;
case 6: System.out.println("List of Employees..");
ResultSet set7= st.executeQuery("select P_SSN,P_name from person where p_ssn in(Select p_ssn from Employee)");
while(set7.next())
    {
        System.out.println(set7.getString(1)+" "+set7.getString(2));
    }
}
    
```

Console Output:

```

<terminated> db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 1:44:38 PM)
Kansas
Oklahoma
Texas
Enter list team name
Oklahoma
Enter report description
cash missing
Enter report date
19-march-2017
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
20
    
```

Person Table

P_SSN	P_NAME	DATE_OF_BIRTH	RACE	GENDER	PROFESSION	MAIL_ADD	EMAIL_ADD	HOME_PH	WORK_PH	CELL_PH	MAIL_LIST
1	6608 diya	18-JUN-00	american	f	student	876k	diya@gmail.com	657342	986234	980651	1
2	8765 dev	31-DEC-17	american	m	student	981e	dev@yahoo.com	783267	981278	856734	0
3	6832 suzan	25-NOV-96	american	f	artist	500f	suzan@gmail.com	675123	874235	176345	1
4	9374 suju	24-AUG-80	asian	m	professor	726g	suju@gmail.com	276547	987345	890612	1
5	7801 na	14-AUG-85	american	f	staff	836w	na@gmail.com	287356	981537	836492	1
6	4567 praveen	30-NOV-90	asian	m	doctor	768g	pra@gmail.com	765234	876234	986234	0
7	5238 saranya	09-DEC-97	asian	f	lyricist	3012	sarn@gmail.com	265783	543876	234987	1
8	6701 john	09-JUN-17	american	m	engineer	1017	john@gmail.com	265786	145987	135985	1
9	6456 aliza	20-OCT-86	american	f	lawer	971	aliza@gmail.com	165347	984237	176234	0
10	2234 vino	12-JAN-97	asian	f	student	1105	vino@gmail.com	264578	245987	165986	1
11	6809 abby	19-JUL-90	american	f	cook	112a	abby@gmail.com	276487	91456	672345	1
12	7802 chetan	23-JAN-80	asian	m	receptionist	286k	chet@gmail.com	289465	257398	635109	1
13	6403 muthu	01-JUL-17	clerk	m	clerk	112m	muthu@gmail.com	986253	983561	156275	1
14	7780 evnosh	16-JUN-85	african	m	director	657j	evn@gmail.com	678356	986125	761209	1
15	6505 sravani	15-FEB-93	asian	f	nurse	1005h	sravs@gmail.com	276548	876234	898345	1
16	6524 krishek	04-MAR-92	hispanic	m	assistant	348k	kris@gmail.com	287456	97154	871425	0
17	6785 lavanya	30-DEC-95	asian	f	chef	1017h	lav@gmail.com	276543	897345	167453	1

Employee Table

	P_SSN	E_SALARY	M_STATUS	HIRE_DATE
1	6403	50000	married	12-FEB-17
2	6524	30000	single	27-SEP-16
3	6809	10500	single	20-APR-16
4	7801	61000	not married	12-OCT-16
5	7802	40000	married	12-DEC-16

Team Table

	P_SSN	TEAM_NAME	REPORT_DESC	REPORT_DATE
1	6403	California	initial discussion	10-NOV-16
2	6403	Arizona	event making	26-MAR-17
3	6524	Kansas	blood donation	20-AUG-16
4	6809	Texas	awareness	24-JAN-17
5	7801	California	club	02-MAR-16
6	7801	Texas	festival week	29-AUG-16
7	7802	Oklahoma	cash missing	19-MAR-17

Task 6.6: Script file showing the testing of query 6

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

6

List of Employees...

7801

6809

7802

6403

6524

Enter Employee ssn for whom expense must be recorded

6809

Enter date of expense

13-april-2017

Enter amount of expenditure

2000

Enter description of expense

electricity

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

6

List of Employees...

7801

6809

7802

6403

6524

Enter Employee ssn for whom expense must be recorded

7802

Enter date of expense

02-sep-2017
Enter amount of expenditure
1700
Enter description of expense
wifi
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
6
List of Employees...
7801
6809
7802
6403
6524
Enter Employee ssn for whom expense must be recorded
6403
Enter date of expense
26-dec-2016
Enter amount of expenditure
100
Enter description of expense
drinks
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
6
List of Employees...
7801
6809
7802
6403
6524
Enter Employee ssn for whom expense must be recorded
7802
Enter date of expense
29-nov-2016
Enter amount of expenditure
3000
Enter description of expense
rent
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
6
List of Employees...
7801
6809
7802
6403
6524
Enter Employee ssn for whom expense must be recorded
6524
Enter date of expense
01-jan-2017
Enter amount of expenditure

1000
Enter description of expense
Party

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
- Menu Bar:** File Edit Source Refactor Navigate Search Project Run Window Help
- Toolbar:** Standard Eclipse toolbar icons.
- Quick Access:** A dropdown menu listing recent projects: demo, lavanya, and lavanya_pan.
- Package Explorer:** Shows the project structure with files dem.java and db_project.java.
- Code Editor:** Displays Java code for database operations. The code includes switch statements for cases 6 and 7, which handle employee expense recording and organization creation respectively. It uses JDBC to execute SQL statements like INSERT INTO Report and SELECT queries.
- Terminal:** A terminal window at the bottom shows the command-line output of the application's execution. It includes prompts for user input and the resulting database records.

```
st.executeUpdate("insert into Report values('"+p_ssn+"','"+user_tnames+"','"+r_desc+"','"+r_date+"')");  
}  
}  
break;  
case 6: System.out.println("List of Employees...");  
ResultSet set7= st.executeQuery("select P_SSN,P_name from person where p_ssn in(Select p_ssn from Employee)");  
while(set7.next())  
{  
    System.out.println(set7.getString(1));  
}  
System.out.println("Enter Employee ssn for whom expense must be recorded");  
int e_ssn=Integer.parseInt(br.readLine());  
System.out.println("Enter date of expense");  
String expense_date=br.readLine();  
System.out.println("Enter amount of expenditure");  
float expense_amount=Float.parseFloat(br.readLine());  
System.out.println("Enter description of expense");  
String expense_desc=br.readLine();  
st.executeUpdate("insert into Expense values('"+e_ssn+"','"+expense_date+"','"+expense_amount+"','"+expense_desc+"')");  
break;  
case 7: System.out.println("Enter Organization name");  
String o_name=(br.readLine());  
System.out.println("Enter organization address");  
}
```

6809
7802
6403
6524
Enter Employee ssn for whom expense must be recorded
6809
Enter date of expense
13-april-2017
Enter amount of expenditure
2000
Enter description of expense
electricity

Expense Table

P_SSN	EXPENSE_DATE	EXPENSE_AMOUNT	EXPENSE_DESC
1	6809 13-APR-17	2000	electricity
2	7802 02-SEP-17	1700	wifi
3	6403 26-DEC-16	100	drinks
4	7802 29-NOV-16	3000	rent
5	6524 01-JAN-17	1000	party
6	7801 13-MAR-17	2000	food

Task 6.7: Script file showing the testing of query 7

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

7

Enter Organization name

blueray

Enter organization address

east brooks

Enter organization phone number

265897

Enter contact person of that organization

bryan

How many teams the organization wants to sponsor
2
list of teams...
Arizona
California
Kansas
Oklahoma
Texas
Name the 1st team the organization wants to sponsor
Arizona
Name the 2nd team the organization wants to sponsor
California
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
7
Enter Organization name
redribbon
Enter organization address
boyd
Enter organization phone number
2876345
Enter contact person of that organization
jugal
How many teams the organization wants to sponsor
1
list of teams...
Arizona
California
Kansas
Oklahoma
Texas
Name the 1st team the organization wants to sponsor
Kansas
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
7
Enter Organization name
blackbay
Enter organization address
lindsay
Enter organization phone number
876234
Enter contact person of that organization
ha
How many teams the organization wants to sponsor
2
list of teams...
Arizona
California
Kansas
Oklahoma
Texas

Name the 1st team the organization wants to sponsor

Texas

Name the 2st team the organization wants to sponsor

Oklahoma

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

7

Enter Organization name

yellowhatch

Enter organization address

jenkins

Enter organization phone number

278965

Enter contact person of that organization

prash

How many teams the organization wants to sponsor

1

list of teams...

Arizona

California

Kansas

Oklahoma

Texas

Name the 1st team the organization wants to sponsor

California

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

7

Enter Organization name

orangehash

Enter organization address

asp

Enter organization phone number

763546

Enter contact person of that organization

manvir

How many teams the organization wants to sponsor

1

list of teams...

Arizona

California

Kansas

Oklahoma

Texas

Name the 1st team the organization wants to sponsor

Texas

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Package Explorer demo db_project.java
210     int e_ssn=Integer.parseInt(br.readLine());
211     System.out.println("Enter date of expense");
212     String expense_date=(br.readLine());
213     System.out.println("Enter amount of expenditure");
214     float expense_amount=Float.parseFloat(br.readLine());
215     System.out.println("Enter description of expense");
216     String expense_desc=(br.readLine());
217     st.executeUpdate("insert into Expense values('"+e_ssn+"','"+expense_date+"','"+expense_amount+"','"+expense_de:
218     break;
219     case 7: System.out.println("Enter Organization name");
220     String o_name=(br.readLine());
221     System.out.println("Enter organization address");
222     String o_addr=(br.readLine());
223     System.out.println("Enter organization phone number");
224     float o_phno=Float.parseFloat(br.readLine());
225     System.out.println("Enter contact person of that organization ");
226     String o_contact=(br.readLine());
227     st.executeUpdate("insert into Ext_Org values('"+o_name+"','"+o_addr+"','"+o_phno+"','"+o_contact+"')");
228     System.out.println("How many teams the organization wants to sponsor");
229     int no_of_teams=Integer.parseInt(br.readLine());
230     ResultSet set8= st.executeQuery("select team_name from team");
231     System.out.println("list of teams...");

```

Problems Javadoc Declaration Console

db.project [Java Application] C:\Program Files\Java\jre8.0.144\bin\javaw.exe (Nov 19, 2017, 3:33:42 PM)

16.Increase the salary by 10% of all employees to whom more than one team must report
 17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5
 18.Import File to Database
 19.Export file from Database
 20.Exit from PAN

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

7
 Enter Organization name
 blueray
 Enter organization address
 east brooks
 Enter organization phone number

External organization table

	ORG_NAME	ORG_ADD	ORG_PH	ORG_CONTACT
1	blackbay	lindsay	876234	ha
2	blueray	east brooks	265897	bryan
3	redribbon	boyd	2876345	jugal
4	yellowhatch	jenkins	278965	prash
5	orangehash	asp	763546	manvir

Sponsors Table

	ORG_NAME	TEAM_NAME
1	blueray	Arizona
2	blueray	California
3	redribbon	Kansas
4	blackbay	Texas
5	blackbay	Oklahoma
6	yellowhatch	California
7	orangehash	Texas

Task 6.8: Script file showing the testing of query 8

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

8

Enter the Person SSN

1098

Enter the Person name

emily
Enter the Person DOB
13-may-2017
Enter the Person Race
american
Enter the Person Gender
f
Enter the Person Profession
student
Enter the Person Contact details..

Enter the Person mailing address
3641
Enter the Person Email
emily@gmail.com
Enter the Person Home_ph_no
284098
Enter the Person Work_ph_no
783546
Enter the Person Cell_ph_no
189364
Enter 1 if Person should be added in mailing list otherwise 0
0
How many donations the the donor has made
1
Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
yes
Hit 1 for cheque payment and 0 for card payment
1
Enter Date of donation
17-may-2017
Enter donation amount
3000
Enter donation type
machines
Enter fund name
emily fund
Enter cheque number
28976
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
8
Enter the Person SSN
1097
Enter the Person name
ily
Enter the Person DOB
29-sep-1990
Enter the Person Race
hispanic

Enter the Person Gender
f

Enter the Person Profession
professor

Enter the Person Contact details..

Enter the Person mailing address
2900

Enter the Person Email
ily@gmail.com

Enter the Person Home_ph_no
983745

Enter the Person Work_ph_no
091635

Enter the Person Cell_ph_no
837156

Enter 1 if Person should be added in mailing list otherwise 0
1

How many donations the the donor has made
2

Enter details of 1th donor

Type 'yes' if the donor remains to be anonymous otherwise 'no'
yes

Hit 1 for cheque payment and 0 for card payment
0

Enter Date of donation
17-feb-2016

Enter donation amount
500

Enter donation type
building

Enter fund name
ily fund

Enter card number
289673

Enter card type
debit

Enter card expiry date
12-dec-2018

Enter details of 2th donor

Type 'yes' if the donor remains to be anonymous otherwise 'no'
no

Hit 1 for cheque payment and 0 for card payment
1

Enter Date of donation
17-aug-2017

Enter donation amount
700

Enter donation type
building

Enter fund name
sai fund
Enter cheque number
12975
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
8
Enter the Person SSN
1095
Enter the Person name
sai
Enter the Person DOB
18-dec-1980
Enter the Person Race
hispanic
Enter the Person Gender
f
Enter the Person Profession
chef
Enter the Person Contact details..

Enter the Person mailing address
2890
Enter the Person Email
sai@gmail.com
Enter the Person Home_ph_no
789243
Enter the Person Work_ph_no
634876
Enter the Person Cell_ph_no
287698
Enter 1 if Person should be added in mailing list otherwise 0
0
How many donations the the donor has made
2
Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
no
Hit 1 for cheque payment and 0 for card payment
0
Enter Date of donation
16-aug-2016
Enter donation amount
2800
Enter donation type
machines
Enter fund name
sai funds
Enter card number
187269
Enter card type

```
credit
Enter card expiry date
12-july-2017
Enter details of 2th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
yes
Hit 1 for cheque payment and 0 for card payment
0
Enter Date of donation
28-may-2016
Enter donation amount
300
Enter donation type
food
Enter fund name
sai funds
Enter card number
298765
Enter card type
debit
Enter card expiry date
17-april-2018
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
8
Enter the Person SSN
2908
Enter the Person name
teja
Enter the Person DOB
28-sep-1991
Enter the Person Race
african
Enter the Person Gender
m
Enter the Person Profession
student
Enter the Person Contact details..

Enter the Person mailing address
658y
Enter the Person Email
teja@gmail.com
Enter the Person Home_ph_no
874324
Enter the Person Work_ph_no
985345
Enter the Person Cell_ph_no
983456
Enter 1 if Person should be added in mailing list otherwise 0
0
```

How many donations the the donor has made
1
Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
no
Hit 1 for cheque payment and 0 for card payment
1
Enter Date of donation
13-feb-2017
Enter donation amount
2500
Enter donation type
food
Enter fund name
teja funds
Enter cheque number
18765
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
8
Enter the Person SSN
2964
Enter the Person name
wang
Enter the Person DOB
17-june-1989
Enter the Person Race
american
Enter the Person Gender
m
Enter the Person Profession
professor
Enter the Person Contact details..

Enter the Person mailing address
123e
Enter the Person Email
wang@gmail.com
Enter the Person Home_ph_no
784237
Enter the Person Work_ph_no
982456
Enter the Person Cell_ph_no
176234
Enter 1 if Person should be added in mailing list otherwise 0
1
How many donations the the donor has made
1
Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
yes

Hit 1 for cheque payment and 0 for card payment

1

Enter Date of donation

15-march-2017

Enter donation amount

600

Enter donation type

machines

Enter fund name

wang funds

Enter cheque number

18965

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows packages: demo, lavanya, and lavanya_pan.
- Code Editor:** Displays db_project.java with Java code. The code includes a switch statement for case 8, which handles donor details and donation input. It prints prompts like "Enter the Person SSN" and "Enter the Person name".
- Console:** Shows the execution of the program. The user inputs "18965" and "sai". The program responds with "Hit 1 for cheque payment and 0 for card payment", "1", and "Enter Date of donation". The user then inputs "15-march-2017". The program continues to prompt for donation amount ("Enter donation amount") and type ("Enter donation type").

Cheque Table

P_SSN	D_DATE	AMOUNT	TYPE	FUND_NAME	CHEQUE_NO
1	1098	3000	machines	emily fund	28976
2	1097	700	building	ily fund	12975
3	2908	2500	food	teja funds	18765
4	2964	600	machines	wang funds	18965

Person Table

	P_SSN	P_NAME	DATE_OF_BIRTH	RACE	GENDER	PROFESSION	MAIL_ADD	EMAIL_ADD	HOME_PH	WORK_PH	CELL_PH	MAIL_LIST
3	6832	suzan	25-NOV-96	american	f	artist	500f	suzan@gmail.com	675123	874235	176345	1
4	9374	suju	24-AUG-80	asian	m	professor	726g	suju@gmail.com	276547	987345	890612	1
5	7801	na	14-AUG-85	american	f	staff	836w	na@gmail.com	287356	981537	836492	1
6	1095	sai	18-DEC-80	hispanic	f	chef	289o	sai@gmail.com	789243	634876	287698	0
7	4567	praveen	30-NOV-90	asian	m	doctor	768g	pra@gmail.com	765234	876234	986234	0
8	5238	saranya	09-DEC-97	asian	f	lyricist	3012	sarn@gmail.com	265783	543876	234987	1
9	6701	john	09-JUN-17	american	m	engineer	1017	john@gmail.com	265786	145987	135985	1
10	6456	aliza	20-OCT-86	american	f	lawer	971	aliza@gmail.com	165347	984237	176234	0
11	2908	teja	28-SEP-91	african	m	student	658y	teja@gmail.com	874324	985345	983456	0
12	2964	wang	17-JUN-89	american	m	professor	123e	wang@gmail.com	784237	982456	176234	1
13	2234	vino	12-JAN-97	asian	f	student	1105	vino@gmail.com	264578	245987	165986	1
14	6809	abby	19-JUL-90	american	f	cook	112a	abby@gmail.com	276487	91456	672345	1
15	7802	chetan	23-JAN-80	asian	m	receptionist	286k	chet@gmail.com	289465	257398	635109	1
16	6403	muthu	01-JUL-17	clerk	m	clerk	112m	muthu@gmail.com	986253	983561	156275	1
17	7780	evnosh	16-JUN-85	african	m	director	657j	evn@gmail.com	678356	986125	761209	1
18	6505	sravani	15-FEB-93	asian	f	nurse	1005h	sravs@gmail.com	276548	876234	898345	1
19	1098	emily	13-MAY-17	american	f	student	3641	emily@gmail.com	284098	783546	189364	0
20	6524	krishek	04-MAR-92	hispanic	m	assistant	348k	kris@gmail.com	287456	97154	871425	0
21	1097	ily	29-SEP-90	hispanic	f	professor	290o	ily@gmail.com	983745	91635	837156	1
22	6785	lavanya	30-DEC-95	asian	f	chef	1017h	lav@gmail.com	276543	897345	167453	1

Donor Table

	P_SSN	ANON_STATUS
1	1097	no
2	1098	yes
3	1097	yes
4	1095	no
5	1095	yes
6	2908	no
7	2964	yes

Card Table

	P_SSN	D_DATE	AMOUNT	TYPE	FUND_NAME	CARD_NO	CARD_TYPE	EXP_DATE
1	1097	17-FEB-16	500	building	ily fund	289673	debit	12-DEC-18
2	1095	16-AUG-16	2800	machines	sai funds	187269	credit	12-JUL-17
3	1095	28-MAY-16	300	food	sai funds	298765	debit	17-APR-18

Task 6.9: Script file showing the testing of query 9

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

9

Enter Organization name

redrock

Enter organization address

asp

Enter organization phone number

289735

Enter contact person of that organization

brad

How many donations the the donor has made
2
Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
yes
Hit 1 for cheque payment and 0 for card payment
1
Enter Date of donation
23-may-2017
Enter donation amount
200
Enter donation type
machines
Enter fund name
red funds
Enter cheque number
28735
Enter details of 2th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
no
Hit 1 for cheque payment and 0 for card payment
0
Enter Date of donation
12-april-2017
Enter donation amount
300
Enter donation type
building
Enter fund name
red fund
Enter card number
287354
Enter card type
debit
Enter card expiry date
26-dec-2019
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
9
Enter Organization name
whitecat
Enter organization address
boyd
Enter organization phone number
826453
Enter contact person of that organization
brent
How many donations the the donor has made
1
Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'

```
yes
Hit 1 for cheque payment and 0 for card payment
1
Enter Date of donation
10-sep-2016
Enter donation amount
1980
Enter donation type
food
Enter fund name
white fund
Enter cheque number
27846
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
9
Enter Organization name
nightbay
Enter organization address
brooks
Enter organization phone number
298364
Enter contact person of that organization
fong
How many donations the the donor has made
1
Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
no
Hit 1 for cheque payment and 0 for card payment
0
Enter Date of donation
16-feb-2016
Enter donation amount
350
Enter donation type
building
Enter fund name
night fund
Enter card number
287354
Enter card type
credit
Enter card expiry date
19-nov-2020
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
9
Enter Organization name
pinkpick
Enter organization address
stillwater
```

Enter organization phone number
289465

Enter contact person of that organization
shawn

How many donations the the donor has made
1

Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
yes

Hit 1 for cheque payment and 0 for card payment
1

Enter Date of donation
10-july-2017

Enter donation amount
600

Enter donation type
food

Enter fund name
pink fund

Enter cheque number
28735

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
9

Enter Organization name
peachfare

Enter organization address
boyd

Enter organization phone number
186453

Enter contact person of that organization
brent

How many donations the the donor has made
1

Enter details of 1th donor
Type 'yes' if the donor remains to be anonymous otherwise 'no'
no

Hit 1 for cheque payment and 0 for card payment
0

Enter Date of donation
14-march-2017

Enter donation amount
2000

Enter donation type
machines

Enter fund name
peach fund

Enter card number
287345

Enter card type
debit

Enter card expiry date
27-june-2017

The screenshot shows the Eclipse IDE interface with the following details:

- File Explorer:** Shows packages like demo, lavanya, and lavanya_pan.
- Code Editor:** Displays a Java file named db_project.java containing code for inserting data into two tables: Ext_Org and Org_donors. The code includes prompts for organization name, address, phone number, contact person, and donation count, followed by an update statement for the Org_donors table.
- Terminal Window:** Shows the command-line interface with the following session:


```
db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 4:16:29 PM)
18.Import file to database
19.Export file from Database
20.Exit from PAN
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
9
Enter Organization name
redrock
Enter organization address
asp
Enter organization phone number
289735
Enter contact person of that organization
brad
```

Ext_org Table

ORG_NAME	ORG_ADD	ORG_PH	ORG_CONTACT
1 nightbay	brooks	298364	fong
2 pinkpick	stillwater	289465	shawn
3 redrock	asp	289735	brad
4 whitecat	boyd	826453	brent
5 peachfare	boyd	186453	brent
6 blackbay	lindsay	876234	ha
7 blueray	east brooks	265897	bryan
8 redribbon	boyd	2876345	jugal
9 yellowhatch	jenkins	278965	prash
10 orangehash	asp	763546	manvir

Org_Donor Table

ORG_NAME	ORG_ANON_STATUS
1 redrock	yes
2 redrock	no
3 whitecat	yes
4 nightbay	no
5 pinkpick	yes
6 peachfare	no

Org_Donation_Cheque Table

ORG_NAME	ORG_DON_DATE	ORG_DON_AMOUNT	ORG_DON_TYPE	ORG_DON_FUND_NAME	ORG_DON_CHEQNO
1 redrock	23-MAY-17	200	machines	red funds	28735
2 whitecat	10-SEP-16	1980	food	white fund	27846
3 pinkpick	10-JUL-17	600	food	pink fund	28735

Org_Donation_Card Table

ORG_NAME	ORG_DON_DATE	ORG_DON_AMOUNT	ORG_DON_TYPE	ORG_DON_FUND_NAME	ORG_DON_CNO	ORG_DON_CTYPE	ORG_DON_EXPDATE
1 redrock	12-APR-17	300	building	red fund	287354	debit	26-DEC-19
2 nightbay	16-FEB-16	350	building	night fund	287354	credit	19-NOV-20
3 peachfare	14-MAR-17	2000	machines	peach fund	287345	debit	27-JUN-17

Task 6.10: Script file showing the testing of query 10

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

10

Enter the client name(from below list) for whom doctor name must be retrieved
suzan

saranya

john

aliza

lavanya

lavanya

doctor name doctor ph.no

geeta 546987

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

10

Enter the client name(from below list) for whom doctor name must be retrieved
suzan

saranya

john

aliza

lavanya

aliza

doctor name doctor ph.no

myles 654123

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Package Explorer dem.java db_project.java
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
else
{
    System.out.println("Enter card number ");
    int ca_no9=Integer.parseInt(br.readLine());
    System.out.println("Enter card type ");
    String ca_type9=(br.readLine());
    System.out.println("Enter card expiry date ");
    String ca_exptime9=(br.readLine());
    st.executeUpdate("insert into Org_donation_card values('"+o_name9+"','"+d_date9+"','"+d_amount9+"','"+d_ty|")
}
break;
//Retrieve the name and phone number of the doctor of a particular client
case 10: ResultSet set10= st.executeQuery("select P_name from person where P_SSN in(select P_SSN from client)");
System.out.println("Enter the client name(from below list) for whom doctor name must be retrieved");
while(set10.next())
{
    System.out.println(set10.getString(1));
}
}
11.Retrieve the total amount of expenses charged by each employee for a particular period of time. The list should be sorted by the total amount
12.Retrieve the list of volunteers that are members of teams that support a particular client
13.Retrieve the names and contact information of the clients that are supported by teams sponsored by an organization whose name starts with 'A'
14.Retrieve the name and total amount donated by donors that are also employees. The list should be sorted by the total amount of the donation
15.For each team, retrieve the name and associated contact information of the volunteer that has worked the most total hours between March
16.Increase the salary by 10% of all employees to whom more than one team must report
17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5
18.Import file to Database
19.Export file from Database
20.Exit from PAN
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
18
Enter the client name(from below list) for whom doctor name must be retrieved
suzan
saranya
john
<

```

Task 6.11: Script file showing the testing of query 11

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

11

Enter start of the period(dd-month-yyyy)

01-jan-2017

Enter end of the period(dd-month-yyyy)

03-sep-2017

total expense	employee ssn
---------------	--------------

1000 6524

1700 7802

2000 7801

2000 6809

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

11

Enter start of the period(dd-month-yyyy)

26-nov-2016

Enter end of the period(dd-month-yyyy)

10-jan-2017

total expense	employee ssn
---------------	--------------

100 6403

1000 6524

3000 7802

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer db_project.java
demo
lavanya
src
Referenced Libraries
lavanya_pan
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
case 11: System.out.println("Enter start of the period(dd-month-yyyy)");
String start_date=(br.readLine());
System.out.println("Enter end of the period(dd-month-yyyy)");
String end_date=(br.readLine());
ResultSet set12= st.executeQuery("select sum(expense_amount), p_ssn from expense where expense_date between "+start_date+" and "+end_date);
System.out.println("total expense(t\temployee ssn");
while(set12.next())
{
    System.out.println(set12.getString(1)+"\t"+set12.getString(2));
}
break;
case 12: System.out.println("Enter the client ssn number from the below list");
ResultSet set13= st.executeQuery("select p_name, p_ssn from person where p_ssn in(select p_ssn from client)");
while(set13.next())
{
    System.out.println(set13.getString(1)+"\t"+set13.getString(2));
}
int c=ssn12=Integer.parseInt(br.readLine());

```

Problems Javadoc Declaration Console

<terminated> db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 5:14:52 PM)

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

11

Enter start of the period(dd-month-yyyy)

26-nov-2016

Enter end of the period(dd-month-yyyy)

10-jan-2017

total expense employee ssn

100	6403
1000	6524
3000	7802

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

20

Task 6.12: Script file showing the testing of query 12

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

12

Enter the client ssn number from the below list

suzan 6832

saranya 5238

john 6701

aliza 6456

lavanya 6785

6832

List of volunteers are as follows

praveen

evnosh

diya

suju

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

12

Enter the client ssn number from the below list

suzan 6832

saranya 5238

john 6701

aliza 6456

lavanya 6785

6785

List of volunteers are as follows

diya
dev

```
System.out.println("total expense\t\temployee ssn");
while(set12.next())
{
    System.out.println(set12.getString(1)+"\t\t "+set12.getString(2));
}
break;
case 12: System.out.println("Enter the client ssn number from the below list");
ResultSet set13= st.executeQuery("select p_name, p_ssn from person where p_ssn in(select p_ssn from client)");
while(set13.next())
{
    System.out.println(set13.getString(1)+"\t"+set13.getString(2));
}
int c_pssn12=Integer.parseInt(br.readLine());
ResultSet set14= st.executeQuery("select p_name from person where p_ssn in(select p_ssn from volunteer where ");
System.out.println("List of volunteers are as follows");
while(set14.next())
{
    System.out.println(set14.getString(1));
}
break;
case 13: System.out.println("Name and contact information of client those are supported by team that are sponsored by organization having names with starting letter b to k");
ResultSet set16= st.executeQuery("select p_name, mail_add,email_add,home_ph,work_ph,cell_ph from person where ");

```

19.Export file from Database
20.Exit from PAN
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
12
Enter the client ssn number from the below list
suzan 6832
saranya 5238
john 6701
aliza 6456
lavanya 6785
6832
List of volunteers are as follows

Task 6.13: Script file showing the testing of query 13

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

13

Name and contact information of client those are supported by team that are sponsored by organization having names with starting letter b to k

Client name	mail address	home ph	work ph	cell ph
john	1017	john@gmail.com	265786	145987
lavanya	1017h	lav@gmail.com	276543	897345
saranya	3012	sarn@gmail.com	265783	543876
suzan	500f	suzan@gmail.com	675123	874235

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer db_project.java db_project.java
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
case 13: System.out.println("Name and contact information of client those are supported by team that are sponsored by organization having names with starting letter b");
ResultSet set13=st.executeQuery("select p_name, p_ssn from person where p_ssn in(select p_ssn from client)");
while(set13.next())
{
    System.out.println(set13.getString(1)+"\t"+set13.getString(2));
}
int c_pssn12=Integer.parseInt(br.readLine());
ResultSet set14=st.executeQuery("select p_name from person where p_ssn in(select p_ssn from volunteer where");
System.out.println("List of volunteers are as follows");
while(set14.next())
{
    System.out.println(set14.getString(1));
}
break;
case 13: System.out.println("Name and contact information of client those are supported by team that are sponsored by organization having names with starting letter b");
ResultSet set16=st.executeQuery("select p_name, mail_addr,email_add,home_ph,work_ph,cell_ph from person where");
System.out.println("Client name mail address home ph \twork ph \tcell ph");
while(set16.next())
{
    System.out.println(set16.getString(1)+"\t"+set16.getString(2)+"\t"+set16.getString(3)+"\t"+set16.getString(4));
}
break;
}
case 14:
System.out.println("ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM");
db.project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 6:00:25 PM)
20.Import file to Database
19.Export file from Database
20.Exit from PAN
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
13
Name and contact information of client those are supported by team that are sponsored by organization having names with starting letter b
Client name mail address home ph work ph cell ph
john 1017 john@gmail.com 265786 145987
lavanya 1017h lav@gmail.com 276543 897345
saranya 3012 sarn@gmail.com 265783 543876
suzan 500f suzan@gmail.com 675123 874235
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
20
<

```

Task 6.14: Script file showing the testing of query 14

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
14

Retrieving the name and total amount...

name	amount	status
Emily	5800	yes

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer db_project.java db_project.java
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
case 14:
{
    System.out.println("Enter card number ");
    int ca_no=Integer.parseInt(br.readLine());
    System.out.println("Enter card type ");
    String ca_type=(br.readLine());
    System.out.println("Enter card expiry date ");
    String ca_exdate=(br.readLine());
    st.executeUpdate("insert into Org_donation_card values('"+o_name9+"','"+d_date9+"','"+d_amount9+"','"+d_ty1+"')");
}
break;
//Retrieve the name and phone number of the doctor of a particular client
case 18: ResultSet set10=st.executeQuery("select P_name from person where P_SSN in(select P_SSIN from client)");
System.out.println("Enter the client name(from below list) for whom doctor name must be retrieved ");
while(set10.next())
{
    System.out.println(set10.getString(1));
}
case 19:
System.out.println("Enter a new organization and associate it with several donations");
10.Retrieve the name and phone number of the doctor of a particular client
11.Retrieve the total amount of expenses charged by each employee for a particular period of time. The list should be sorted by the total amount
12.Retrieve the list of volunteers that are members of teams that support a particular client
13.Retrieve the names and contact information of the clients that are supported by teams sponsored by an organization whose name starts with b
14.Retrieve the name and total amount donated by donors that are also employees. The list should be sorted by the total amount of the donation
15.For each team, retrieve the name and associated contact information of the volunteer that has worked the most total hours between March
16.Increase the salary by 10% of all employees to whom more than one team must report
17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5
18.Import file to Database
19.Export file from Database
20.Exit from PAN
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
14
Retrieving the name and total amount...
name amount status
<

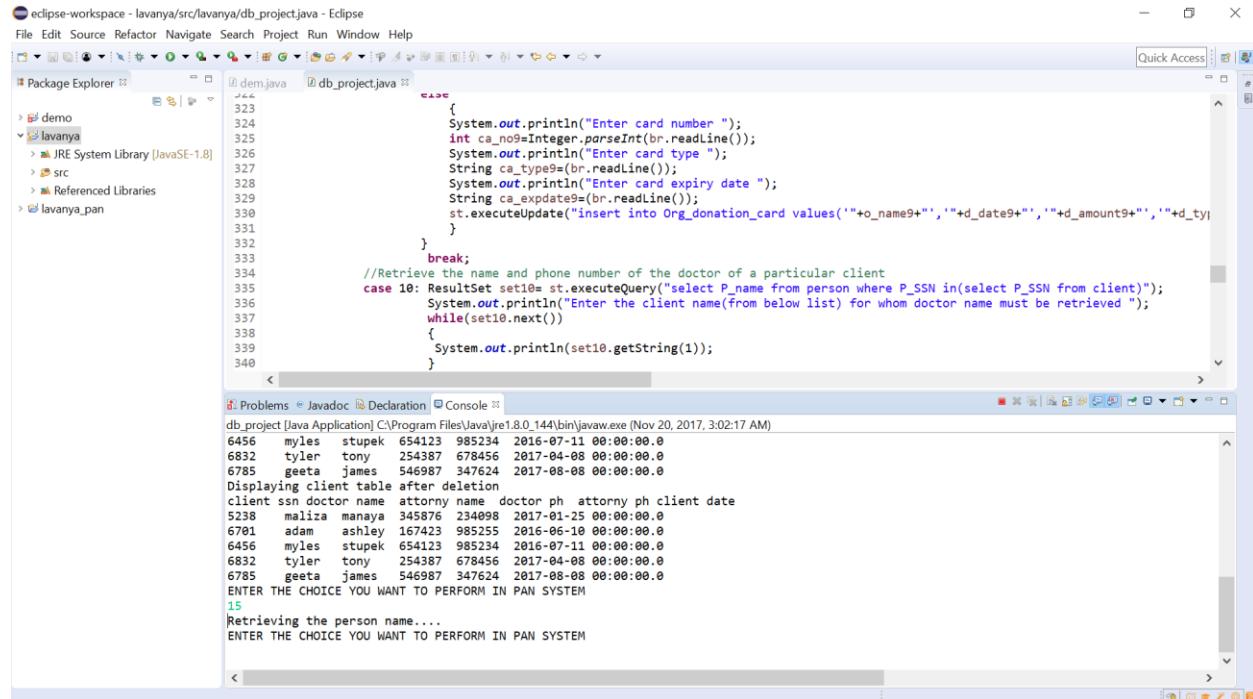
```

Task 6.15: Script file showing the testing of query 15

//no such record in database

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
15

Retrieving the person name....



The screenshot shows the Eclipse IDE interface. The top menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The left sidebar shows the Package Explorer with projects like demo, lavanya, and lavanya.pan. The central editor window displays a Java file named db_project.java with code related to database operations. Below the editor is the Console view, which shows the execution of the program. The output in the console includes:

```
db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 20, 2017, 3:02:17 AM)
6456 myles stupek 654123 985234 2016-07-11 00:00:00.0
6832 tyler tony 254387 678456 2017-04-08 00:00:00.0
6785 geeta james 546987 347624 2017-08-08 00:00:00.0
Displaying client table after deletion
client ssn doctor name attorney name doctor ph attorney ph client date
5238 maliza manaya 345876 234098 2017-01-25 00:00:00.0
6701 adam ashley 167423 985255 2016-06-10 00:00:00.0
6456 myles stupek 654123 985234 2016-07-11 00:00:00.0
6832 tyler tony 254387 678456 2017-04-08 00:00:00.0
6785 geeta james 546987 347624 2017-08-08 00:00:00.0
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
15
Retrieving the person name....
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
```

Task 6.16: Script file showing the testing of query 16

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

16

Employee	ssn	employee	salary	marital status	hire date
6403	50000			married	2017-02-12 00:00:00.0
6524	30000			single	2016-09-27 00:00:00.0
6809	10500			single	2016-04-20 00:00:00.0
7801	61000			not married	2016-10-12 00:00:00.0
7802	40000			married	2016-12-12 00:00:00.0

Updating the salary...

Salary updated

6403	55000			married	2017-02-12 00:00:00.0
6524	30000			single	2016-09-27 00:00:00.0
6809	10500			single	2016-04-20 00:00:00.0
7801	67100			not married	2016-10-12 00:00:00.0
7802	40000			married	2016-12-12 00:00:00.0

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer db_project.java
demo
lavanya
src
Referenced Libraries
lavanya_pan
dem.java
376     case 16: ResultSet set17= st.executeQuery("select * from employee");
377     System.out.println("Employee ssn\temployee salary\tmarital status\thire date");
378     while(set17.next())
379     {
380         System.out.println(set17.getString(1)+"\t"+set17.getString(2)+"\t"+set17.getString(3)+"\t"+set17.getString(4));
381     }
382     System.out.println("Updating the salary...");
383     st.executeUpdate("update employee set e_salary=e_salary+(0.1*e_salary) where p_ssn in(select p_ssn from report");
384     System.out.println("Salary updated");
385     ResultSet set18= st.executeQuery("select * from employee");
386     while(set18.next())
387     {
388         System.out.println(set18.getString(1)+"\t"+set18.getString(2)+"\t"+set18.getString(3)+"\t"+set18.getString(4));
389     }
390     break;
391     case 17: ResultSet s19= st.executeQuery("select * from client");
392     System.out.println("Displaying client table");
393     System.out.println("client ssn doctor name attorney name doctor ph attorney ph client date");
394     while(s19.next())
395     {
396         System.out.println(s19.getString(1)+"\t"+s19.getString(2)+"\t"+s19.getString(3)+"\t"+s19.getString(4)+"\t"+s19.getString(5));
397     }
        }

16
Employee ssn    employee salary marital status hire date
6483      50000      married 2017-02-12 00:00:00.0
6524      30000      single   2016-09-27 00:00:00.0
6809      10500      single   2016-04-20 00:00:00.0
7801      61000      not married 2016-10-12 00:00:00.0
7802      40000      married 2016-12-12 00:00:00.0
Updating the salary...
Salary updated
6403      55000      married 2017-02-12 00:00:00.0
6524      30000      single   2016-09-27 00:00:00.0
6809      10500      single   2016-04-20 00:00:00.0

```

Task 6.17: Script file showing the testing of query 17

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

17

Displaying client table

client	ssn	doctor	name	attornny	name	doctor	ph	attornny	ph	client	date
5238	maliza	manaya	345876	234098	2017-01-25	00:00:00.0					
6701	adam	ashley	167423	985255	2016-06-10	00:00:00.0					
6456	myles	stuprek	654123	985234	2016-07-11	00:00:00.0					
6832	tyler	tony	254387	678456	2017-04-08	00:00:00.0					
6785	geeta	james	546987	347624	2017-08-08	00:00:00.0					

Displaying client table after deletion

client	ssn	doctor	name	attornny	name	doctor	ph	attornny	ph	client	date
5238	maliza	manaya	345876	234098	2017-01-25	00:00:00.0					
6456	myles	stuprek	654123	985234	2016-07-11	00:00:00.0					
6832	tyler	tony	254387	678456	2017-04-08	00:00:00.0					
6785	geeta	james	546987	347624	2017-08-08	00:00:00.0					

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows a project named "lavanya" containing packages "demo" and "src".
- Code Editor:** Displays a Java file named "db_project.java" with code related to database operations like inserting into tables and retrieving data.
- Console Output:** Shows the execution of the code, including menu options like "17. Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5" and "18. Import File to Database". It also displays the results of displaying and deleting client tables.

Task 6.18: Script file showing the testing of query 18

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

18

Enter import file name:

query18ip.txt

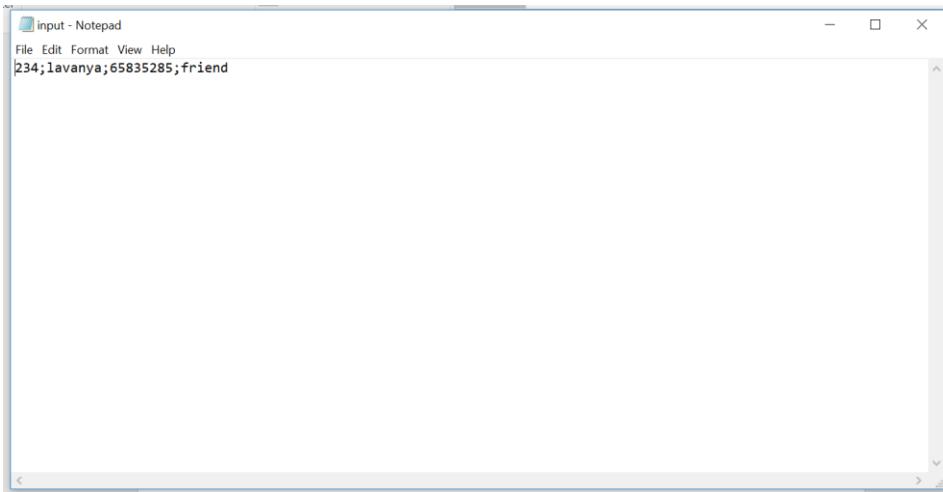
One row inserted successfully

File imported successfully!!!

Emergency contact Table

	...	E_NAME	CONTACT	RELATION	
1	9374	lavanya	65835285	friend	

Input file



The screenshot shows the Eclipse IDE interface. In the center, the code editor displays Java code for importing data from a file named 'input.txt'. The code uses BufferedReader to read lines from the file and insert them into a database table 'emergency_contact'. The 'Console' tab at the bottom shows the command 'java dem' being run and the output of the program, which includes a list of 20 tasks and the message 'One row inserted successfully!' repeated four times.

```
File Edit Format View Help
234;lavanya;65835285;friend

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Project Run Window Help
Package Explorer dem.java db_project.java
434     }
435         break;
436     case 18: System.out.println("Enter import file name: ");
437     String file_name=br.readLine();
438     FileInputStream fstream = new FileInputStream("D:\\\"+file_name);
439     DataInputStream in = new DataInputStream(fstream);
440     BufferedReader bri = new BufferedReader(new InputStreamReader(in));
441     String i_data;
442     while ((i_data = bri.readLine()) != null)
443     {
444         String data[] = i_data.split(",");
445         String e_p_ssn = data[0];
446         String emp_name = data[1];
447         String emp_contact = data[2];
448         String emp_relation = data[3];
449         st.executeUpdate("insert into emergency_contact values('"+e_p_ssn+"','"+emp_name+"','"+emp_contact+"')");
450         System.out.println(" One row inserted successfully");
451     }
452 }

db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 20, 2017, 3:06:50 AM)
9.Enter a new organization and associate it with several donations
10.Retrieve the name and phone number of the doctor of a particular client
11.Retrieve the total amount of expenses charged by each employee for a particular period of time. The list should be sorted by the total amount
12.Retrieve the list of volunteers that are members of teams that support a particular client
13.Retrieve the names and contact information of the clients that are supported by teams sponsored by an organization whose name starts with 'A'
14.Retrieve the name and total amount donated by donors that are also employees. The list should be sorted by the total amount of the donation
15.For each team, retrieve the name and associated contact information of the volunteer that has worked the most total hours between March and April
16.Increase the salary by 10% of all employees to whom more than one team must report
17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5
18.Import File to Database
19.Export file from Database
20.Exit from PAN
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
18
Enter import file name:
input.txt
```

Task 6.19: Script file showing the testing of query 19

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

19

Enter output file name:

query19.txt

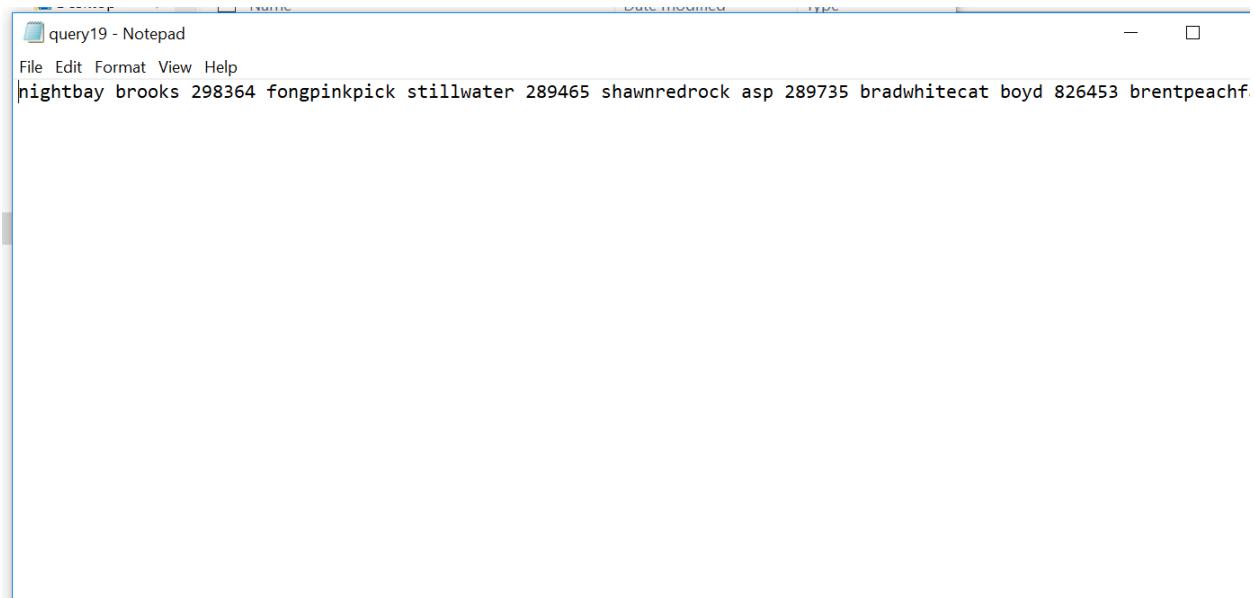
```
One row inserted successfully!
One row inserted successfully!
One row inserted successfully!
One row inserted successfully!
```

```

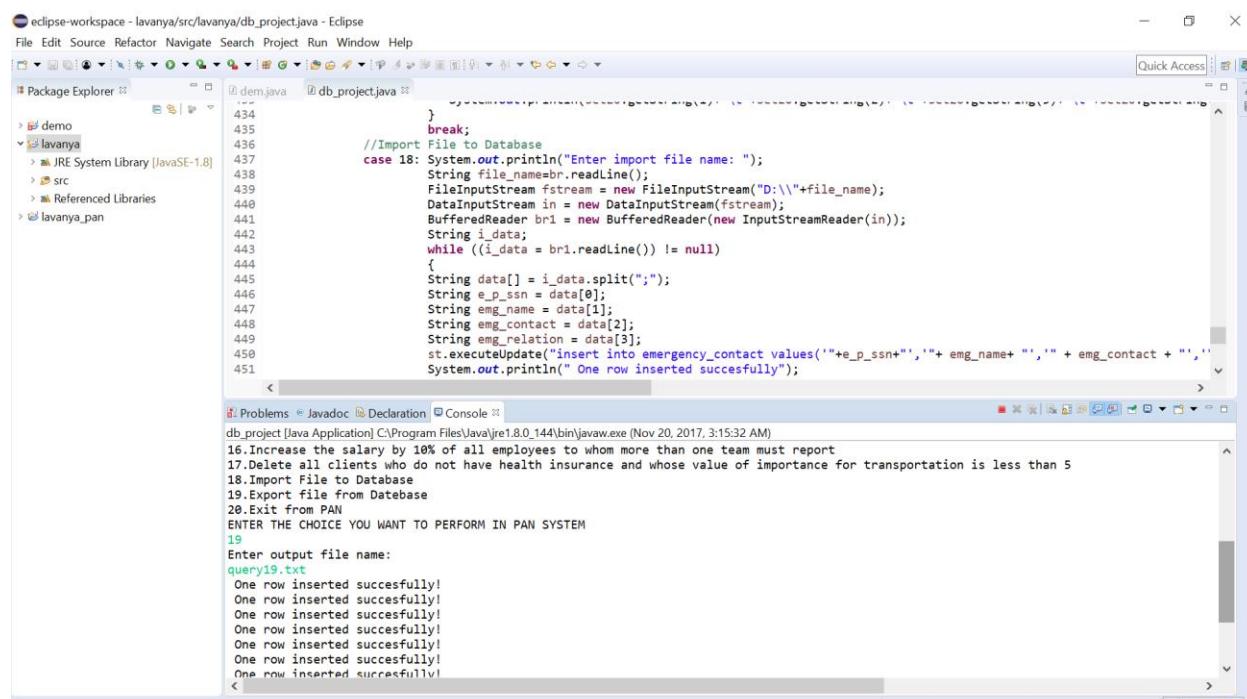
One row inserted successfully!
File exported successfully!!!

```

Output file generated



The screenshot shows a Windows Notepad window titled "query19 - Notepad". The menu bar includes File, Edit, Format, View, Help. The content of the window is a single line of text: "nightbay brooks 298364 fongpinkpick stillwater 289465 shawnredrock asp 289735 bradwhitecat boyd 826453 brentpeachf".



The screenshot shows the Eclipse IDE interface. The top menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help. The left sidebar shows the Package Explorer with projects like "lavanya" and "lavanya_pan". The main editor area contains Java code for inserting data into a database. The bottom right corner shows the Console tab with the following output:

```

db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 20, 2017, 3:15:32 AM)
16.Increase the salary by 10% of all employees to whom more than one team must report
17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5
18.Import File to Database
19.Export file from Database
20.Exit from PAN
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
19
Enter output file name:
query19.txt
One row inserted successfully!

```

Task 6.20: Script file showing the testing of query 20

--Showing the errors generated by sql

```
ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
4
Enter Volunteer SSN number for whom the hour must be recorded
list of Volunteers...
diya 6608
dev 8765
suju 9374
praveen 4567
evnosh 7780
6609
Enter team name for which volunteer date must be recorded from below list of
teams
Arizona
California
Kansas
Oklahoma
Texas
arizona
Enter the hours worked
20
Enter the month
may
java.sql.SQLIntegrityConstraintViolationException: ORA-02291: integrity
constraint (SARA0003.SYS_C00188715) violated - parent key not found

        at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:450)
        at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:399)
        at oracle.jdbc.driver.T4C80all.processError(T4C80all.java:1059)
        at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:522)
        at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:257)
        at oracle.jdbc.driver.T4C80all.doOALL(T4C80all.java:587)
        at oracle.jdbc.driver.T4CStatement.doOall18(T4CStatement.java:210)
        at oracle.jdbc.driver.T4CStatement.doOall18(T4CStatement.java:30)
        at
oracle.jdbc.driver.T4CStatement.executeForRows(T4CStatement.java:931)
        at
oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:
1150)
        at
oracle.jdbc.driver.OracleStatement.executeQuery(OracleStatement.java:1309)
        at
oracle.jdbc.driver.OracleStatementWrapper.executeQuery(OracleStatementWrapper
.java:422)
        at lavanya.db_project.main(db_project.java:172)
```

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Package Explorer db_project.java dem.java
demo
lavanya
src
lavanya
db_project.java
dem.java
Referenced Libraries
JRE System Library [JavaSE-1.8]
src
lavanya_pan
JRE System Library [JavaSE-1.8]
src
Statement();
59
60
61 ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM";
62 1.Enter a new team into the database and associate him or her with one or more teams";
63 2.Enter a new client into the database and associate him or her with one or more teams";
64 3.Enter a new volunteer into the database and associate him or her with one or more teams";
65 4.Enter the number of hours a volunteer worked this month for a particular team";
66 5.Enter a new employee into the database and associate him or her with one or more teams";
67 6.Enter an expense charged by an employee";
68 7.Enter a new organization and associate it to one or more PAN teams";
69 8.Enter a new donor and associate him or her with several donations";
70 9.Enter a new organization and associate it with several donations";
71 10.Retrieve the name and phone number of the doctor of a particular client";
72 11.Retrieve the total amount of expenses charged by each employee for a particular period of time. The list should be sorted by the total amount of the expenses charged by each employee;
73 12.Retrieve the list of volunteers that are members of teams that support a particular client";
74 13.Retrieve the names and contact information of the clients that are supported by teams sponsored by an organization whose name starts with the letter 'T';
75 14.Retrieve the name and total amount donated by donors that are also employees. The list should be sorted by the total amount of the donations;
76 15.For each team, retrieve the name and associated contact information of the volunteer that has worked the most total hours between the members of the team";
77 16.Increase the salary by 10% of all employees to whom more than one team must report";
78 17.Delete all clients who do not have health insurance and whose value of importance for transportation is less than 5";
79 18.Import File to Database";
80 19.Export file from Database";
}

```

Problems Javadoc Declaration Console

```

<terminated> db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 10:28:08 AM)
Texas
Enter 1st team name
arizona
java.sql.SQLIntegrityConstraintViolationException: ORA-02291: integrity constraint (SARA0003.SYS_C00188718) violated - parent key not found
at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:458)
at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:399)
at oracle.jdbc.driver.T4C8Oall.processError(T4C8Oall.java:1059)
at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:522)
at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:257)
at oracle.jdbc.driver.T4C8Oall.doALL(T4C8Oall.java:587)
at oracle.jdbc.driver.T4CStatement.doAll18(T4CStatement.java:210)

```

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

2

Enter the Person SSN

6608

Enter the Person name

shashi

Enter the Person DOB

12-aug-1990

Enter the Person Race

asian

Enter the Person Gender

f

Enter the Person Profession

student

Enter the Person Contact details..

Enter the Person mailing address

east brooks

Enter the Person Email

shashi@gmail.com

Enter the Person Home_ph_no

187254

Enter the Person Work_ph_no

987153

Enter the Person Cell_ph_no

176234

Enter 1 if Person should be added in mailing list otherwise 0

1

```

java.sql.SQLIntegrityConstraintViolationException: ORA-00001: unique
constraint (SARA0003.SYS_C00188700) violated

        at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:450)
        at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:399)
        at oracle.jdbc.driver.T4C80all.processError(T4C80all.java:1059)
        at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:522)
        at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:257)
        at oracle.jdbc.driver.T4C80all.doOALL(T4C80all.java:587)
        at oracle.jdbc.driver.T4CStatement.doOall8(T4CStatement.java:210)
        at oracle.jdbc.driver.T4CStatement.doOall8(T4CStatement.java:30)
        at
oracle.jdbc.driver.T4CStatement.executeForRows(T4CStatement.java:931)
        at
oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:
1150)
        at
        at
oracle.jdbc.driver.OracleStatement.executeUpdateInternal(OracleStatement.java
:1707)
        at
        at
oracle.jdbc.driver.OracleStatement.executeUpdate(OracleStatement.java:1670)
        at
        at
oracle.jdbc.driver.OracleStatementWrapper.executeUpdate(OracleStatementWritte
r.java:310)
        at lavanya.db_project.persondata(db_project.java:37)
        at lavanya.db_project.main(db_project.java:96)

```

The screenshot shows the Eclipse IDE interface with the following details:

- Project Structure:** The Package Explorer view shows a project named "lavanya" containing a "src" folder with "demo" and "db_project" packages.
- Code Editor:** The editor displays the content of `db_project.java`. The code reads data from a database and writes it to a file named `ext_org`.
- Output View:** The Console tab shows the command-line output of the Java application, indicating it was terminated by the user.
- Problems View:** This view displays the error message: `java.sql.SQLIntegrityConstraintViolationException: ORA-00001: unique constraint (SARA0003.SYS_C00188700) violated`, along with the full stack trace from the Java code.

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM

2

Enter the Person SSN

3654

Enter the Person name

sara

Enter the Person DOB

12-jun-1998

Enter the Person Race

asian

Enter the Person Gender

f

Enter the Person Profession

student

Enter the Person Contact details..

Enter the Person mailing address

1186t

Enter the Person Email

sara@gmail.com

Enter the Person Home_ph_no

18764567

Enter the Person Work_ph_no

18976524367

Exception in thread "main" java.lang.NumberFormatException: For input string: "18976524367"

at java.lang.NumberFormatException.forInputString(Unknown Source)
at java.lang.Integer.parseInt(Unknown Source)
at java.lang.Integer.parseInt(Unknown Source)
at lavanya.db_project.persondata(db_project.java:32)
at lavanya.db_project.main(db_project.java:96)

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer db_project.java
demo
lavanya
src
Referenced Libraries
lavanya_pan
dem.java db_project.java
17     String p_dob=(br1.readLine());
18     System.out.println("Enter the Person Race");
19     String p_race=(br1.readLine());
20     System.out.println("Enter the Person Gender");
21     String p_gender=(br1.readLine());
22     System.out.println("Enter the Person Profession");
23     String p_prof=(br1.readLine());
24     System.out.println("Enter the Person Contact details..\\n");
25     System.out.println("Enter the Person mailing address");
26     String p_mail=(br1.readLine());
27     System.out.println("Enter the Person Email");
28     String p_email=(br1.readLine());
29     System.out.println("Enter the Person Home_ph_no");
30     int p_hph=Integer.parseInt(br1.readLine());
31     System.out.println("Enter the Person Work_ph_no");
32     int p_wph=Integer.parseInt(br1.readLine());
33     System.out.println("Enter the Person Cell_ph_no");
34     int p_cph=Integer.parseInt(br1.readLine());
35     System.out.println("Enter 1 if Person should be added in mailing list otherwise 0");
36     int p_list=Integer.parseInt(br1.readLine());
37     st.executeUpdate("insert into Person values('"+p_ssn+"','"+p_name+"','"+p_dob+"','"+p_race+"','"+p_gender+"','"+p_pro-
DB1.close();
String p_dob - lavanya.db_project.persondata()

```

Problems Javadoc Declaration Console

<terminated> db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 19, 2017, 7:49:00 PM)

Enter the Person Name
sara@gmail.com

Enter the Person Home_ph_no
18764567

Enter the Person Work_ph_no
18976524367

Exception in thread "main" java.lang.NumberFormatException: For input string: "18976524367"

at java.lang.NumberFormatException.forInputString(Unknown Source)
at java.lang.Integer.parseInt(Unknown Source)
at java.lang.Integer.parseInt(Unknown Source)
at lavanya.db_project.persondata(db_project.java:32)
at lavanya.db_project.main(db_project.java:96)

Task 6.21: Script file showing the testing of query 21

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
20

```

eclipse-workspace - lavanya/src/lavanya/db_project.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer db_project.java
demo
lavanya
src
Referenced Libraries
lavanya_pan
dem.java db_project.java
434 }
435 break;
436 //Import File to Database
437 case 18: System.out.println("Enter import file name: ");
438 String file_name=br.readLine();
439 FileInputStream fstream = new FileInputStream("D:\\"+file_name);
440 DataInputStream in = new DataInputStream(fstream);
441 BufferedReader br1 = new BufferedReader(new InputStreamReader(in));
442 String i_data;
443 while ((i_data = br1.readLine()) != null)
444 {
445     String data[] = i_data.split(":");
446     String e_p_ssn = data[0];
447     String emg_name = data[1];
448     String emg_contact = data[2];
449     String emg_relation = data[3];
450     st.executeUpdate("insert into emergency_contact values('"+e_p_ssn+"','"+emg_name+"','"+emg_contact+"','"+emg_rela-
System.out.println(" One row inserted succesfully");

```

Problems Javadoc Declaration Console

<terminated> db_project [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Nov 20, 2017, 3:15:32 AM)

One row inserted succesfully!
File exported succesfully!!!

ENTER THE CHOICE YOU WANT TO PERFORM IN PAN SYSTEM
20