

INF10002 Database Analysis and Design

Distinction task submission

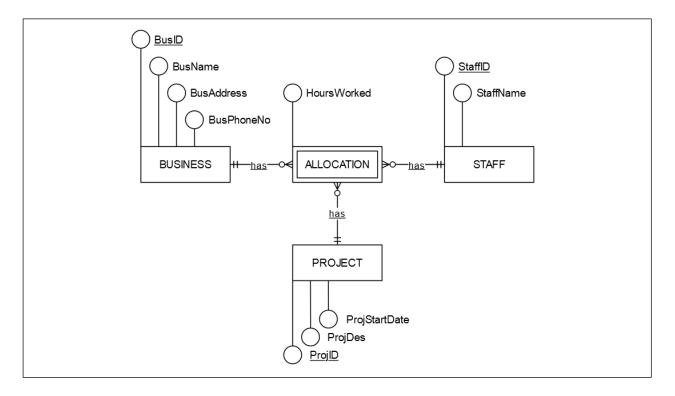
Student Number: 103488117

Student Name: Luong Trac Duc Anh

Part 2: ERDs and schemas



Narrative 1 ERD



Narrative 1 Relational Schema

BUSINESS (BusID, BusName, BusAddress, BusPhoneNo)

PRIMARY KEY (BusID)

PROJECT (ProjID, ProjDes, ProjStartDate)

PRIMARY KEY (ProjID)

STAFF (StaffID, StaffName)

PRIMARY KEY (StaffID)

ALLOCATION (HoursWorked, BusID, StaffID, ProjID)

PRIMARY KEY (BusID, StaffID, ProjID)

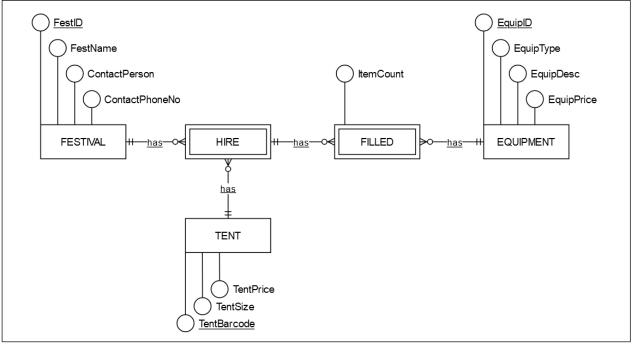
FOREIGN KEY (BusID) REFERENCES BUSINESS

FOREIGN KEY (StaffID) REFERENCES PROJECT

FOREIGN KEY (ProjID) REFERENCES STAFF

Narrative 2 ERD





Narrative 2 Relational Schema

FESTIVAL (FestID, FestName, ContactPerson, ContactPhoneNo)
PRIMARY KEY (FestID)

TENT (TentBarcode, TentSize, TentPrice)

PRIMARY KEY (TentBarCode)

EQUIPMENT (EquipType, EquipID, EquipDesc, EquipPrice)
PRIMARY KEY (EquipID)

HIRE (FestID, TentBarcode)

PRIMARY KEY (FestID, TentBarcode)

FOREIGN KEY (FestID) REFERENCES FESTIVAL

FOREIGN KEY (TentBarcode) REFERENCES TENT

FILLED (ItemCount, FestID, TentBarcode, EquipID)

PRIMARY KEY (FestID, TentBarcode, EquipID)

FOREIGN KEY (FestID) REFERENCES HIRE

FOREIGN KEY (TentBarcode) REFERENCES HIRE

FOREIGN KEY (EquipID) REFERENCES EQUIPMENT

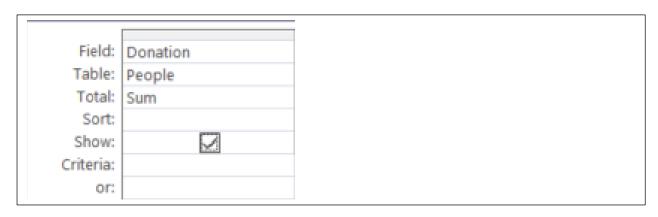
Part 4: Queries

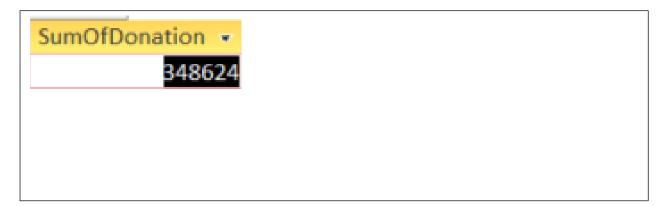


Q1: People query

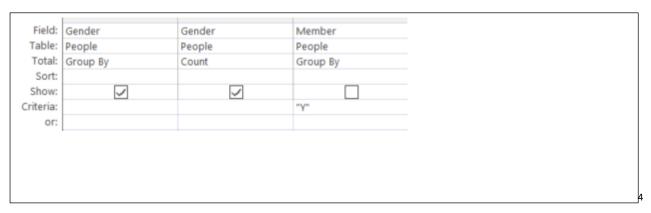
Person Id •	Name •	Gender •	State •	Donation •
1000	Chris Koutros	M	NT	110
1001 J	o McClean	F	ACT	63
1002 A	Alessia Galifi	F	SA	49
1003 K	(aty Cleece	F	QLD	281
1004	Debbie Cowley	F	ACT	281
1005 F	Rhona Cowburn	F	WA	0
1006 E	Beth Meehan	F	NT	51
1007 N	Matthew Parr	M	ACT	284
1008 J	ared Coyle	M	ACT	73
1009 J	oanne Sharples	F	TAS	121

Q2: Donation

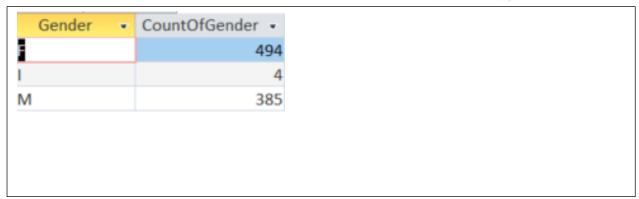




Q3: Gender







Q4: Fastest query

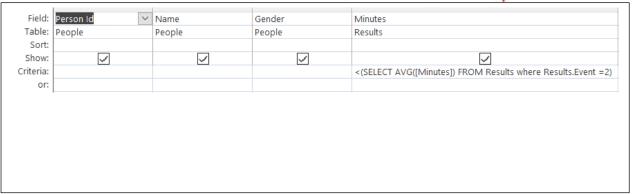
Field:	"Event"	"Minutes"	
Table:	Results	Results	
Total:	Group By	Min	
Sort:	Ascending		
Show:	~	~	
Criteria:			
or:			

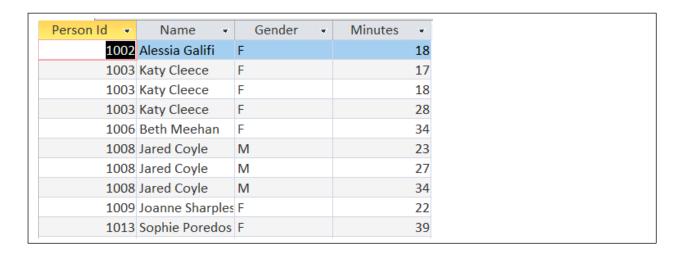
"Event"	w	MinOf"N
	1	1
	2	29
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	48

5

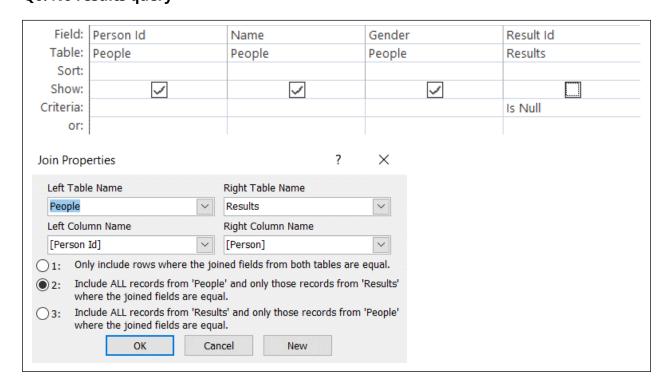


Q5: Better than average query





Q6: No results query





	Person Id 🕝	Name -		Gender	¥
	2763	Belinda Totino	F		
	2764	Melissa Butcher	F		
	2765	Dave Pullen	M		
	2766	Dean Goulding	M		
	2767	Melinda Chin	F		
	2768	Jessica Billings	F		
	2769	Jolene Mc Allist	F		
	2770	Mark Mc Crysta	M		
	2771	Leanne Allman	F		
	2772	Sorgey Kollstam	M		
\bot					

Q7: X Category query

Field:	X Category	Description	Person Id	
Table:	XCategory	XCategory	People	
Total:	Group By	Group By	Count	
Sort:				
Show:	✓	~	✓	
Criteria:				
or:				

Q8: Insert your data and event 25

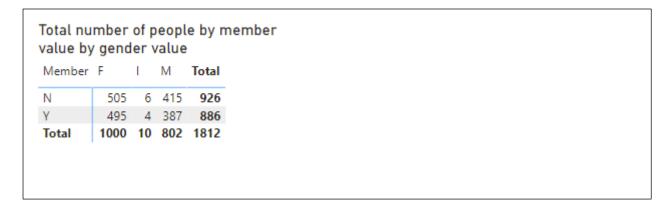
Person Id 🕝	Name •	Gender -	State -	Donation -	Minutes -	Event Id 🔻
8117	Luong Trac Duc	M	NSW	0	51	25
2807	Jack Flynn	M	SA	143	89	25
2808	Johnny Gould	M	NSW	500	78	25
2809	Kevin Moore	M	TAS	300	134	25
2810	Olivia Korts	F	VIC	255	56	25



Part 5: Visualisations

Q1: Member category viz

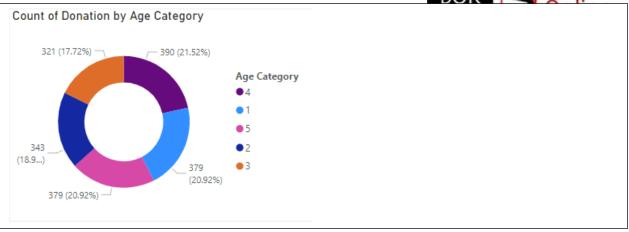




Q2: Age category viz

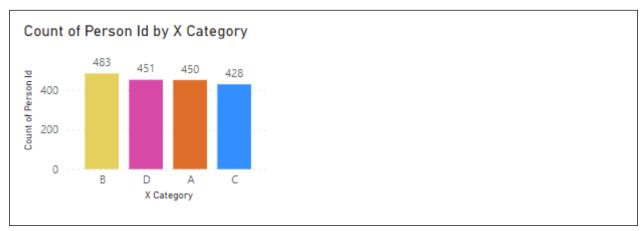






Q3: X category viz

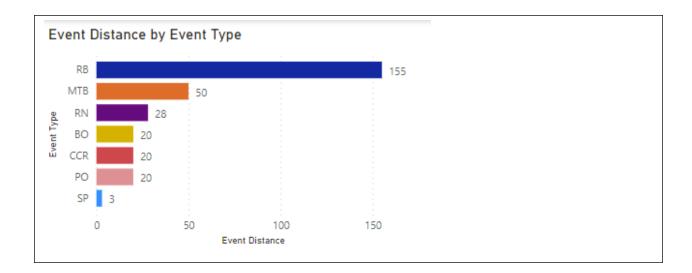




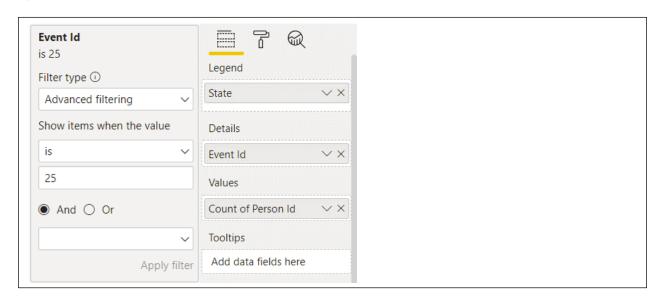
Q4: Event viz



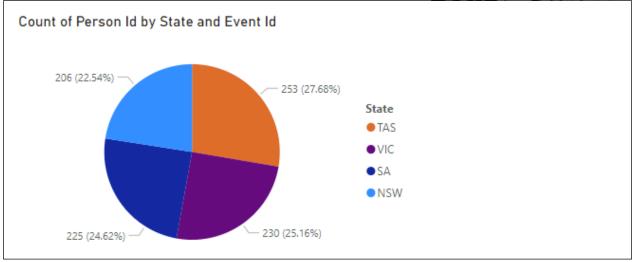




Q5: Event 25 viz







Q6: Extra viz 1

