



## Institute of Technology Tralee

## Computing – Stage II

## Databases Concepts

## SQL - Class Exercise

A database contains the following tables:

Owners : Table							
OwnerId	Surname	Forename	Street	Town	County	PhoneNo	
1	Smith	John	25 High st	Killarney	Co. Kerry	064 36930	
2	Jones	Anne	Main st	Killorglin	Co. Kerry	066 9789552	
3	Smyth	James	Orchard house	Tralee	Co. Kerry	066 7145893	
4	Anderson	Tim	2 Oak Cresent	Castletroy	Co. Limerick	061 6254789	
*	0						

Record: 4 of 4

Properties : Table									
PropNo	Type	Street	Town	County	MonthlyRent	NoBeds	Ownerid	Status	
1	H	12 Manor Village	Tralee	Co. Kerry	€650.00	4	4	A	
2	H	27 Ashley Downs	Tralee	Co. Kerry	€625.00	3	3	U	
3	A	15 Edward Court	Tralee	Co. Kerry	€500.00	2	3	U	
4	B	1 Edward Court	Tralee	Co. Kerry	€450.00	1	4	A	
5	H	15 Langford Downs	Killorglin	Co. Kerry	€550.00	3	2	A	
6	A	42 Glebe House	Killarney	Co. Kerry	€800.00	2	1	A	
7	A	26 Abbeygate Apts	Tralee	Co. Kerry	€900.00	3	2	A	
8	A	12 Library Place	Killorglin	Co. Kerry	€1,000.00	2	2	A	
9	H	63 Pinewood Estate	Killarney	Co. Kerry	€950.00	3	1	U	
10	B	30 Kings Court	Tralee	Co. Kerry	€475.00	1	4	U	
0					€0.00	0	0		

Record: 11 of 11

Rentals : Table						
RentId	PropNo	TennantId	DateFrom	DateTo	Deposit	
201	3	95	01/01/2007	31/05/2008	€450.00	
202	5	100	01/06/2007	31/12/2007	€550.00	
203	2	101	01/01/2008	31/12/2008	€625.00	
204	7	98	01/07/2007	31/01/2008	€900.00	
205	1	99	02/07/2007	31/07/2008	€650.00	
206	9	102	15/03/2008	14/03/2009	€950.00	
207	6	98	01/04/2008	30/09/2008	€800.00	
208	10	103	30/04/2008	29/04/2009	€475.00	
209	3	104	02/06/2008	01/06/2010	€500.00	
210	7	100	28/02/2008	30/09/2008	€900.00	
*	0	0			€0.00	

Record: 1 of 10

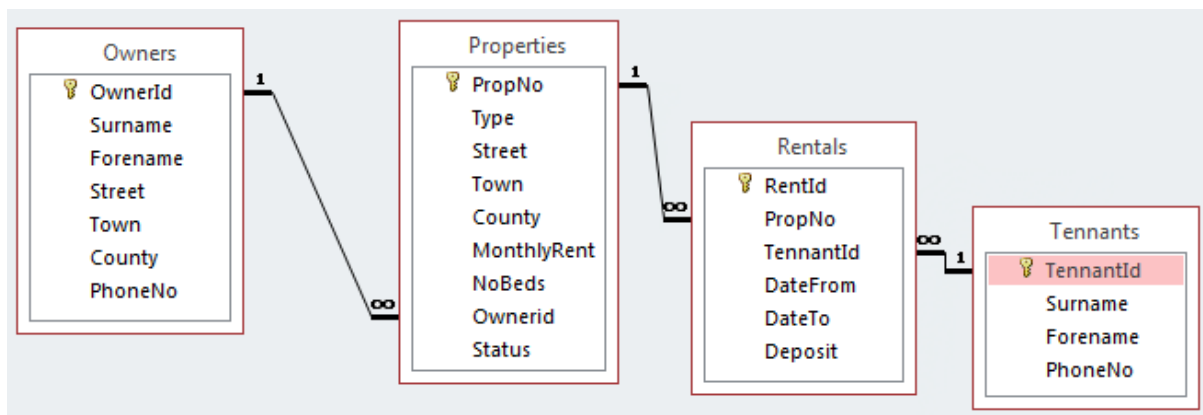
	TenantId	Surname	Forename	PhoneNo
▶	95	Smith	Shane	086 4517844
	98	Fitzgibbon	Mark	087 2208896
	99	Moriarty	Patrick	087 4561122
	100	Smith	Anne	086 4455889
	101	Fitzgerald	Mary	087 2524100
	102	Murphy	Michael	086 5478444
	103	Fitzgerald	Danny	087 1245665
	104	Moriarty	Mary	087 6455528
*	0			

Record: 1 of 8

Where:

- all dates are of the format dd/mm/yyyy.
- property Type is one of {H (house), A (apartment), B (bedsit)}
- a properties status is either **A** (Available) or **U** (Unavailable)

The relationships between the tables is shown below:



## Write SQL SELECT statements to do the following

1. List all owners in order of Surname and forename.
2. List the town, property number, type and monthly rent for all properties in order of **Town**, **Type** and **MonthlyRent** (highest rent first).
3. List all properties located in the town of **Killarney**.
4. List all 3 bed properties available for rent.
5. List all 3 bed houses available for rent in Tralee.
6. List the property type and number of properties for each property type.
7. List the number of houses for rent in each town.
8. Show for each property, the number of times it has been rented.
9. List property number and the number of times the property has been rented for all properties which have been rented more than once.
10. List the lowest, highest and average rent for apartments.
11. List all properties whose monthly rent is greater than the average monthly rent.
12. List all owners whose surname begins with the letter 'S'.
13. List all tenants whose surname begins with the string 'Fitz'.
14. List all properties with more than 3 bedrooms, which are available for rent.
15. List all properties which have never been rented.