	ii.	SELECT UserName, Password FROM users ORDER BY UserName DESC							
	iii.	SELECT FirstName, LastName FROM users WHERE UserName = 'Bilbo33'							
Coı	nsider	the fo	llowing table, '	Players', fro	m an online	fantasy	role-play	ving game:	
		PID	GivenName	Surname	Character	Level	Race	Items	
		001	Alan	Smith	Alzabeck	32	Orc	Potion, Armour, Axe	
		002	Yvette	Jones	Thornzon	2	Dwarf	Armour, Sword	
		003	Ibrahīm	Hassan	Teylar	12	Dwarf	Staff, Potion	
		004	Lili	Yu	Axethorn	6	Human	Axe, Horse	
		001	Alan	Smith	Tamto	24	Elf	Potion, Horse	
a)	Crea	ate an e	entity definitior	n for the ab	ove table.				
	•••••		entity definition						
	•••••		e purpose of da	atabase nor	malisation?				
	•••••		e purpose of da	atabase nor	malisation?				
b)		at is the	e purpose of da	atabase nor	malisation?			at all character names	
b)	Wha	e this t	e purpose of da	normal form	malisation?	may as	ssume th		are uniq
b)	Wha	e this t	e purpose of da	normal form	malisation?	may as	ssume th	at all character names	are uniq
b)	Wha	e this t	e purpose of da	normal form	malisation?	may as	ssume th	at all character names	are uniq
a) b)	Wha	e this t	e purpose of da	normal form	malisation?	may as	ssume th	at all character names	are uniq
b)	Wha	e this t	e purpose of da	normal form	malisation?	may as	ssume th	at all character names	are uniq
b)	Wha	e this t	e purpose of da	normal form	malisation?	may as	ssume th	at all character names	are uniq
b)	Wha	e this t	e purpose of da	normal form	malisation?	may as	ssume th	at all character names	are uniq

Total marks = /24

4.10. Databases – Test 2

Consider the following entity description for a flat-file shop orders database. Order(OrderNum, CustNum, Title, FirstName, Surname, Address, PostCode, StockNum, StockName, Price, Manufacturer, OrderDate, OrderTime, Dispatched) Normalise the above database into 3NF by writing the entity descriptions for the new tables. a) You may assume at this stage that you only need to order one item at a time. [4] b) Identify the primary keys. [1] ii. State the purpose of a primary key. [1] Identify the foreign keys and their location. [1] State the purpose of a foreign key. [1] Draw an entity-relationship diagram for your database. [3] Complete a data dictionary for your database, using the column headings below for each table. Field Data Type **Format** Validation Rule / Input Mask / Default Value **Key Field** Note that not all fields will have an entry for every column. You should aim to suggest at least one sensible validation rule or input mask or default value in each table. Under the Key Field column you can enter 'Primary', 'Foreign' or leave it blank as appropriate. [12] Answer the following SQL questions based on the structure you have used in part d). Write an SQL statement to return all information on every item of stock. [1] Write an SQL statement to return the title, first name, surname and postcode of all customers in alphabetical order of surname. [2] Write an SQL statement to return a list of order numbers, dates and times of orders of every item that has not been dispatched. The list should be in ascending order of date ordered. [3]

1.	this question, what restriction does this place on the database that would be an to-day running of a shop?	
ii.	Describe a possible solution to this problem.	[2]
iii	i. Draw an entity-relationship diagram for your new structure.	[4]

/37

Total marks =