Higher Computing Science

Database Implementation: Computed Fields and Aliases

Exercise 6 – Answers

Task 1

SELECT title, hotelName, kilometresFromAirport, kilometresFromAirport-2.8 AS [Updated Distance] FROM Hotel, Holiday WHERE Hotel.hotelRef=Holiday.hotelRef AND city="Madrid";

title	 hotelName 	Ŧ	kilometresFromAirport 🕞	Updated Distance 🛛 👻
Glorious Spain	Hotel Tranquilo		15.6	12.8
Madrid Attractions	Hotel Tranquilo		15.6	12.8
Madrid City Break	Hotel Tranquilo		15.6	12.8
Spanish Siesta	Hotel Tranquilo		15.6	12.8
Capital Spain	Empera		14.1	11.3
Madrid Summer Madness	Empera		14.1	11.3

2. SELECT hotelName, pricePerNight, pricePerNight+7.25 AS [Tax Inclusive Price], round([Tax Inclusive Price] * 1.13,2) AS [Tax Inclusive Price in Euros] FROM Hotel, Holiday WHERE Hotel.hotelRef=Holiday.hotelRef AND city="Rome" ORDER BY pricePerNight+7.25 DESC;

hotelName 🔻	pricePerNight 👻	Tax Inclusive Price 🔹	Tax Inclusive Price in Euros 🔹
Hotel Vicori	£85.00	92.25	104.24
Hotel Sereno	£82.00	89.25	100.85
Hotel Sereno	£82.00	89.25	100.85
Hotel Fario	£80.00	87.25	98.59
Hotel Geno	£78.00	85.25	96.33
Darios	£65.00	72.25	81.64
Hotel Evoli	£64.00	71.25	80.51
Avanti	£45.00	52.25	59.04

3. SELECT title, hotelName, nights AS [Original Duration], pricePerNight AS [Original Price], nights+1 AS [Updated Duration], pricePerNight*1.1 AS [Updated Price per Night] FROM Holiday, Hotel WHERE Holiday.hotelRef=Hotel.hotelRef AND title LIKE "*budget*";

title 👻	hotelName 🔹	Original Duration 👻	Original Price 🕞	Updated Duration 👻	Updated Price per Night 📼
Budget Dublin	Dublin Apartments	2	£29.00	3	31.9
Catalonia on a budget	Barce Bunkhouse	3	£25.00	4	27.5
London on a budget	Sleepy Inn	3	£39.00	4	42.9
Paris on a budget	Napolean Ville	3	£48.00	4	52.8
Portugal on a budget	Lado Colina	2	£55.00	3	60.5

4. SELECT title, country, hotelName, nights, pricePerNight, pricePerNight*nights AS [Total Cost] FROM Holiday, Hotel WHERE Holiday.hotelRef=Hotel.hotelRef AND country="Spain" ORDER BY pricePerNight*nights DESC, title ASC;

title	🝷 country 👻	hotelName 👻	nights 👻	pricePerNight 👻	Total Cost 🕞
Glorious Spain	Spain	Hotel Tranquilo	5	£95.00	475
Madrid Attractions	Spain	Hotel Tranquilo	5	£95.00	475
Spanish Beach	Spain	Villa Grande	5	£95.00	475
Spanish Siesta	Spain	Hotel Tranquilo	5	£95.00	475
Spanish Sun	Spain	Villa Grande	5	£95.00	475
Madrid Summer Madness	Spain	Empera	7	£62.00	434
Spanish Luxury	Spain	Casa Luxor	3	£100.00	300
Madrid City Break	Spain	Hotel Tranquilo	2	£95.00	190
Capital Spain	Spain	Empera	3	£62.00	186
Catalonia Caper	Spain	Catalonia Inn	3	£40.00	120
Catalonia Crystal	Spain	Catalonia Inn	3	£40.00	120
Barcelona Pricebuster	Spain	Barce Bunkhouse	3	£25.00	75
Catalonia on a budget	Spain	Barce Bunkhouse	3	£25.00	75

5. SELECT title, hotelName, country, city, starRating, pricePerNight*nights AS[Total Cost] FROM Holiday, Hotel WHERE Holiday.hotelRef=Hotel.hotelRef AND starRating>=4 AND pricePerNight*nights <200;</p>

title -	hotelName 👻	country 👻	city 👻	starRating 👻	Total Cost 🕞
Madrid City Break	Hotel Tranquilo	Spain	Madrid	5	190
Edinburgh City Break	Castle View	Scotland	Edinburgh	4	130

Task 2

1. SELECT CustomerOrder.orderNumber, name, quantity, price, (quantity*price) AS Cost FROM CustomerOrder, OrderProduct, Product WHERE CustomerOrder.orderNumber=OrderProduct.orderNumber AND OrderProduct.productID=Product.productID AND CustomerOrder.orderNumber=20007;

orderNumber 👻	name 👻	quantity 👻	price 👻	Cost 👻
20007	18 inch teddy bear	50	£11.99	599.5
20007	Fish bean bag toy	100	£3.49	349
20007	Bird bean bag toy	100	£3.49	349
20007	Rabbit bean bag toy	100	£3.49	349
20007	Raggedy Ann	50	£4.99	249.5

- SELECT Supplier.name, Product.name, price, round(price*0.9,2) 2. AS [Discounted Price] FROM Supplier, Product WHERE Supplier.supplierID=Product.supplierID AND Supplier.name="Fun and Games"; Supplier.name Product.name + price - Discounted Price -Fun and Games King doll £9.49 8.54 Fun and Games Queen doll £9.49 8.54
- 3. SELECT CustomerOrder.orderNumber, name, Product.productID, quantity, quantity+20 AS [Increased Quantity] FROM CustomerOrder, OrderProduct, Product WHERE CustomerOrder.orderNumber=OrderProduct.orderNumber AND OrderProduct.productID=Product.productID AND CustomerOrder.orderNumber=20007 AND name LIKE "*bean bag*";

orderNumber 👻	name 👻	productID 👻	quantity 👻	Increased Quantity 👻
20007	Fish bean bag toy	BNBG01	100	120
20007	Bird bean bag toy	BNBG02	100	120
20007	Rabbit bean bag toy	BNBG03	100	120

4. SELECT shopName, contactName, quantity, price, description, quantity+25 AS [Updated Quantity] FROM Customer, CustomerOrder, OrderProduct, Product WHERE Customer.customerID=CustomerOrder.customerID AND CustomerOrder.orderNumber=OrderProduct.orderNumber AND OrderProduct.productID=Product.productID AND shopName="The Toy Store" AND description like "*bean bag*";

shopName 👻	contactName 👻	quantity 👻	price 👻	description -	Updated Quantity	*
The Toy Store	Kim Howard	10	£3.49	Fish bean bag toy, complete with bean bag worms with which to feed it		35
The Toy Store	Kim Howard	10	£3.49	Bird bean bag toy, eggs are not included		35
The Toy Store	Kim Howard	10	£3.49	Rabbit bean bag toy, comes with bean bag carrots		35