

<p><i>Place candidate's barcoded sticker here.</i></p> <p><i>This sheet must be stapled to the front of each candidates' submission.</i></p>		I.T. PRACTICAL EXAMINATION 2015			
		Version: FINAL Marksheet (October 2015)		Prog. Lang.	
		Candidate: Test			
		Marker: D Gruijters		120	0
		Checksum: 0000-0000-0120		Total	Pupil
SQL					
1.1	SELECT Country, FullName ✓ FROM tblPlayers ✓ ORDER BY Country, Fullname ✓	3			
1.2	SELECT * ✓ FROM tblFinals ✓ WHERE FinalYear < 2000 ✓	3			
1.3	DELETE * ✓ FROM tblPlayers WHERE PlayerID = 101 ✓ Do not accept PlayerName = 'Bob Rogers' as a criterion.	2			
1.4	UPDATE tblTournaments ✓ SET PrizeMoneyZAR ✓ = PrizeMoney * 11.51 ✓	3			
1.5	SELECT MONTH(DateOfBirth) AS BirthMonth ✓, COUNT(*) AS NumBirthdays ✓ FROM tblPlayers GROUP BY ✓ MONTH(DateOfBirth) ✓ (-1 mark if no aliases are specified at all)(MYSQL: Accept GROUP BY BirthMonth)(COUNT(Field) also acceptable)	4			
1.6	SELECT Country ✓, COUNT(*) ✓ AS TotalPlayers FROM tblPlayers GROUP BY Country ✓ HAVING ✓ COUNT(*) > 10 ✓ ORDER BY COUNT(*) DESC ✓ (Accept ORDER BY Country DESC as well) (MYSQL: Accept HAVING TotalPlayers, ORDER BY TotalPlayers)	6			
1.7	SELECT TournamentName ✓ FROM tblTournaments WHERE PrizeMoney ✓ > (SELECT AVG(PrizeMoney) ✓ FROM tblTournaments) ✓	4			
1.8	SELECT FullName, TournamentName, FinalYear ✓ FROM tblFinals, tblPlayers, tblTournaments ✓✓ WHERE tblFinals.TournamentID = tblTournaments.TournamentID ✓ AND tblFinals.WinnerID = tblPlayers.PlayerID ✓ AND FinalYear MOD 4 = 0 ✓ AND FinalYear MOD 400 <> 0 ✓ AND FinalYear > 1995 ✓ (Accept any solution that works for future years past 2015)(Accept any equivalent of the MOD operator) (Accept INNER JOIN instead of WHERE tblFinals.TournamentID = tblTournaments.TournamentID)	8			
1.9	INSERT INTO tblFinals ✓ (TournamentID, FinalYear, FinalName, WinnerID, RunnerUpID) ✓ SELECT ✓ 2 ✓, FinalYear, FinalName, WinnerID, RunnerUpID ✓ FROM tblFinals WHERE TournamentID = 1 ✓ AND FinalYear = 2015 ✓ (Penalise 1 mark for incorrect syntax such as added brackets or the word "VALUES") (Not necessary to list fields but make sure SELECT statement fields matches order of tblFinals fields)	7			
Programming					
2.1	Player Class: Class header is correct ✓	1			
2.2	Fields/Properties: attributes declared private ✓ name correctly ✓ and correct type ✓ (-1 Penalise for each class where non-private attributes are used as it's a fundamental error and misunderstanding of OOP)	3			
2.3	Constructor: header is correct ✓ with correct parameters ✓ and values assigned to correct parameters ✓ (Names of parameters must match names given in the question. Penalise in 2.3 OR 3.3)	3			
2.4	getCountryCode: method header is correct ✓ check for a space in country ✓ generate code correctly for countries with spaces ✓ generate code correctly for countries without spaces ✓ (Deduct 1 mark if not uppercase)	4			
2.5	toString: method header correct ✓ getCountryCode called ✓ and concatenated in correct format with fullname and returned ✓	3			

3.1	Match Class: Class header is correct ✓	1	
3.2	Attributes: matchCode and score declared correctly ✓ player1 and player2, BOTH attributes declared as Player objects ✓✓ (-1 again for non-private attributes as it's a fundamental error and misunderstanding of OOP)	3	
3.3	Constructor: MatchCode parameter is of the correct type ✓ player1 and player2 attributes are Player objects ✓ Values assigned to correct attributes ✓ and score initialised to "X" ✓ (Names of parameters must match names given in the question. Penalise in 2.3 OR 3.3) (-1 if Score parameter is present)	4	
3.4	getMatchCode: accessor method header is correct and returns the matchCode correctly ✓	1	
3.5	setScore: Method header, including parameter, is correct and correct assignment ✓	1	
3.6	toString: method header correct ✓ both player objects' toString method concatenated ✓ with the 'vs.' concatenated ✓ Check if there is a score ✓ and concatenate accordingly ✓ or return not played ✓ (Accept matchCode if included but do not award mark) (Do not penalise for inefficient code)	6	
4.1	TournamentManager: Class header is correct ✓	1	
4.2	PROPERTIES: Private ✓ array of player objects ✓ and array match objects declared correctly ✓ and both of correct size (32 and 16 respectively) ✓ (Do not penalise or award marks for counter variables here or anywhere)	4	
4.3	Constructor: Accepts filename as a parameter ✓ Display error if file does not exist ✓ Open file for reading ✓ Loop through every line in the file (while or for loop accepted) ✓ Read a line for the Player information ✓ and tokenize ✓✓ Add a new Player object to the array ✓ at the correct position ✓ called constructor with correct parameters ✓	10	
4.4	listAllPlayers: method header correct ✓, appropriate for loop ✓, concatenate the toString ✓ of each object ✓ with a newline ✓	5	
4.5	populateMatches: Method header correct and returns a String ✓ appropriate loop to fill matches array ✓ create new match object at consecutive position ✓ opponent object's position determined correctly ✓ player objects passed from player array as parameters ✓ with correct generated matchcode ✓ into match constructor. Each match's toString concatenated and returned ✓	7	
4.6	findMatch: method takes string parameter ✓ Loops through all matches ✓ compare value of parameter ✓ with match's code using getMatchCode method ✓ returns a Match object ✓	5	
5.1	Create an interface/form/class/unit called TennisUI ✓	1	
5.2	Instantiate a Tournament Object ✓ (Must have filename parameter, if not penalise -1)	1	
5.3	Methods called ✓ and output displayed ✓	2	
6.1	Open a file for reading ✓ Find the correct match based on the parameter passed to the findMatch method ✓✓ Any variable(s) or data structure for storing each player's games ✓ and sets ✓ declared and initialised (For example arrays, 2 variables for games, 2 variables for sets, inheritance, extra attributes) Loop while there are lines in the file ✓ Working out which player needs a point ✓✓ Code for increasing games and sets ✓✓ (1 mark for any code that takes the player number of each line in the file and increases games and 1 mark for successfully increasing the number of sets) Resolving sets where the margin must be two games to win ✓ Code for testing which player wins ✓ Generating and setting the score string ✓	13	
6.2	Method called in interface and output displayed ✓	1	