



"Investing in Africa's Future"

COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE

CSC301-DATABASE SYSTEMS

END OF SECOND SEMESTER EXAMINATIONS

JANUARY /MAY 2020

LECTURER: MR A .KANDIERO

DURATION: 3 HRS

INSTRUCTIONS

Answer **ALL** Questions

Create a folder on your desktop and enter your Student Number as the folder name (for example 190708) Save your work in this folder

Credit will be awarded for logical, systematic and neat presentations

Question 1 [40 Marks]

Open Microsoft Access Database Application Package and answer the following questions.

- (a) Create a database and name it **ZUPCO**. [2]
- (b) Create a table within this database and use the following field structure, set all the fields to their appropriate data types and set **Bus No Plate** and bus **ID** as a **primary keys**. [10]
- (c) Enter data as shown in the table below and save the table as **buses**. [5]

buses									
BusNoPlate	BusIDNo	Make	PurchasePrice	PurchasedDate	Depot	Driver	Cell	Routes	Lifespan
AAC5312	D600	Macopolo	\$25,000.00	01-Jan-98	Bulawayo	D Phiri	712632995	Bulawayo-Harare	
AAD4009	D500	AVM	\$30,000.00	12-Dec-10	Mutare	C Marange	773560899	Mutare-Harare	
AAD5697	D150	Macopolo	\$18,000.00	15-Jan-09	Mutare	G Mandi	772896632	Harare-Beitbridge	
AAF89200	D100	Macopolo	\$40,000.00	15-Feb-05	Harare	M Chigamba	735200633	Harare-Beitbridge	
AAG9600	D101	AVM	\$25,000.00	08-May-02	Mutare	F Chimbawa	772500456	Mutare-Chipinga	
ABC5628	D700	AVM	\$19,000.00	12-Jan-91	Harare	S Suma	774852369	Harare-Mutare	
ABF89300	D205	CAIO	\$25,000.00	10-Oct-95	Harare	M Machike	773589654	Harare-Bulawayo	
AFF4050	D700	AVM	\$20,000.00	10-Mar-01	Harare	J Chiko	775230123	Harare-Mutare	
ASD7004	D850	CAIO	\$18,000.00	12-Apr-00	Beitbridge	G Makunda	773562699	Beitbridge-Mutare	
ASF8000	D220	CAIO	\$15,000.00	09-Jun-06	Gweru	G Mashamba	736896654	Gweru-Harare	

- (d) Create query to retrieve buses with purchase price above \$20 000.00 and are from Mutare Depot. [5]
- (e) Create a query to retrieve all buses purchased between 1998 and 2002. [5]
- (f) Given that ZUPCO is now paying drivers at its Harare Depot, through Eco-cash system and the company needs all drivers who have a **Econet** line but for only those

working in Harare . Create a query to retrieve all drivers who have Econet lines and working in Harare and name that query **EcoLinesHarare**. [5]

(d) The Management of ZUPCO needs to by a new fleet of busses from China and needs to know the number of buses who have passed 10 years life span. Create query called **Lifespan to** determine buses with 10 years or more life span. [5]

Note: The field **Lifespan** should automatically calculate the life span and extract the buses with 10 or more years life span.

(e) Create a form taking data from **buses table** and save ha form as **BusRegFrm** .

Create the following command buttons on the **BusRegFrm** . [4]

-Add A new bus [3]

-delete a bus from table [3]

-Exit form [3]

QUESTION 2 [20 Marks]

Using **SQL Commands** Not the GUI Method answer the following Questions

Take a screen shot of the answer as save it in word document with your name and student Number.

Covert the word document to **PDF** before uploading your exam to Moodle.

Question 2

(a) Create a database called **students**. [2]

(b) Create table called **personal_details** with the following fields and their appropriate data types. [6]

Student_tno	surname	First_name	sex	Age	Fees_paid
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(c) Create a command to insert the following data into the table **personal_details**. [5]

Student_tno	surname	First_name	sex	Age	Fees_paid
15475	Jake	Daniels	M	28	\$2500.00
16785	Chikafu	Mary	F	19	\$2800.00
17899	Doe	John	M	18	\$2900.00
18795	Wakele	Amanda	F	23	\$3200.00

(d) Create a command to calculate the total fees for all students. [4]

(e) Create a command to display all students with student number ending with a '5' and are Males. [2]

(f) Create a command to display all female students with ages below 20 years. [2]

(g) Create a command to display the oldest student. [2]

(h) Create a command to back up the database. [2]

End of Question Paper!