

DATABASE CLASS WORK QUESTIONS ON QUERIES REPORTS AND FORMS

Question 1

Create a database called **Imperial hotel**. With in this database design a table called **Guests** that will be used to enter the information as seen in the table below.

GNO	L name	Nationality	Room NO	Date of Birth	R status	Acc fee	N days
G001	Maina	Kenyan	89	01/12/2012	Executive	80000	10
G002	Jimmy	American	4	01/12/2011	Royal	60000	20
G003	Loy	Tanzanian	11	02/12/2012	Executive	95000	30
G004	Dominic	American	15	03/12/2012	VIP	120000	45
G005	Mathew	British	19	03/12/2012	Executive	56000	15
G006	Norah	Kenyan	17	04/12/2012	VIP	130000	60
G007	Hilda	American	12	05/12/2012	Executive	95000	13
G008	Tim	British	9	06/12/2012	VIP	140000	70
G009	Nancy	Tanzanian	67	07/12/2012	VIP	140000	60

Required:

1. Create a database and its table in design view
2. Populate your table as seen in the table.
3. Create a query to display all the quests that are in **Tanzanian nationals**.
4. Create a query that will display all the guests who are not in **VIP** rooms.
5. Created a query to display all the guests who are either Kenyan or Tanzanian nationals.
6. Create the query to display the American nationals who booked **VIP** rooms.
7. Create the query to display the **American nationals** who did not book **VIP** rooms.
8. Create a query to display all guests whose accommodation fee is less than **90000**
9. Create a query to display all the guests whose accommodation is **100000**
10. Create a query to display all the guests whose accommodation is above **80000** but below **120000**
11. Create a query to calculate the total fee paid by each customer.
12. Create a query which will display **new accommodation fee** for guests who booked **VIP** rooms if a **20%** discount was offered.
13. Create a query to display all the guests whose Lname contains letter “a” anywhere.

Question 2

The table below gives information on students in King’s College Budo about their registration numbers, names, class, age and house where they reside.

STIDN0	NAMES	CLASS	AGE	HOUSE
1	AKIKI	S.2	15	Muteesa
2	MUSA	S.2	14	Muteesa
3	MUZAAYA	S.4	16	Simba
4	FRANCIS	S.4	16	Lumumba
5	BULE	S.1	13	Simba
6	ACHENG	S.5	12	Lumumba
7	MIRUNDI	S.3	17	Muteesa
8	ATUHWE	S.1	10	Muteesa
9	AJOKA	S.5	11	Muteesa
10	AMERI	S.6	18	Simba

- i. Create a database and save it as your name and personal number.
- ii. Create a table called personal details with fields: STIDN0, names, class, age, house.
- iii. Enter the above data in a table created.
- iv. Create a query to show members with names beginning with letter “A”. **Save it as Letter**
- v. Create a query to show members with names containing letter “E” anywhere.

- vi. Create a query to show muteesa and samba house members.
- vii. Create a query to show Muteesa house members only. Called Muteesa house members.
- viii. Create a query to show Simba, Lumumba houses members but not Muteesa house.
- ix. Create a query to show members who are in senior 3 and Senior 5 only.name it semi candidates.
- x. Create a query to show S.4 and S.6 members.name it candidates 2020
- xi. Create a query to show senior one students.name it new curriculum 2020.
- xii. Create a query to show members who are above 13 years.name it Old age.
- xiii. Create a query to show members who are below 16 years.name it below Age
- xiv. Create a query to show members whose age ranges from 12 to 16
- xv. Design a form for the above data in the table .name entry form.
- xvi. Design a report for the above data. Name it summary report.

Question 3

Create a database called Your name –Trans company Employees

EmpID	Fname	Lname	Status	Department	Designation	Salary	Food Alc
EP001	Maaso	Bone	Contact	IT	Programmer	450000	10000
EP002	Opio	James	F.Time	Accounting	Manager	700000	20000
EP003	Nambi	Loy	P.Time	IT	Clerk	150000	5000
EP004	Muaso	Trevor	F.Time	Marketing	Manager	500000	15000
EP005	Tusabe	Titus	Contract	Marketing	Consultant	400000	60000
EP006	Otawa	Olver	F.Time	IT	Manager	900000	100000
EP007	Mutebi	Timous	F.Time	Transportation	Manger	490000	20000
EP008	Kente	Noarh		IT	Clerk	200000	20000
EP009	Kemba	Dan	F.Time	Transportation	Driver	250000	20000
EP010	Yine	Peter	F.Time	IT	Net-worker	300000	20000
EP011	Kenjana	Joy	P.Time	IT	Clerk	160000	5000

Required

- i. Create a database and its table as described above.
- ii. Create a query to display only those records that begin with M and end with so in Fname field but should be having only two other characters in between.
- iii. Create a query to display only those records that begin with Ke but the rest of the characters should not exceed three in the Fname field.
- iv. Create a query to display only those records that begin with O in Fname field.
- v. Create a query that displays only records that end with a in Fname field.
- vi. Create a query that can display only records that have r any where in the Lname field.
- vii. Create a query that can display only those records that begin with T and end with us in Lname field.
- viii. Create a query to calculate Total pay but should only include Fname, Department, Salary and FoodAlc fields.
- ix. Create a query that will calculate New Salary for mangers by 10% increase for only those mangers whose salary is less than 700000. Display only Fname, Designation and Salary.
- x. If all employees whose salary is above 250000 should pay 20% tax, create a query to display only taxable employees with their calculated tax. Display only Fname, Lname, Department, Salary and calculated tax.
- xi. Create a query to display EmpID, FullName (combine Fname and Lname in one field),Department and Salary.

Question 4

The table below shows the medical records of **King's College Budo's clinic**.

PID	Name	District	DOB	Diagnosis	Treat fee
KCB01	Omodi	Busia	03/02/1966	Corona virus	10000
KCB01	Katiba	Kampala	06/09/1977	Typhoid	100000
KCB03	Waiswa	Busia	03/05/1981	Tuberculosis	20000
KCB04	Nimbi	Busia	03/02/1989	Dysentery	120000
KCB05	Jjagwa	Kampala	04/05/1990	Corona virus	30000
KCB06	Nafula	Busia	05/11/1989	Tuberculosis	20000
KCB07	Waiswa	Jinja	10/11/1978	Corona virus	60000

- i. Create data base. Save it as your name and personal number.
- ii. Design a table with appropriate data types in design view called **patients**,
- iii. Enter the results in the table.
- iv. Create a lookup wizard on the field of **District and diagnosis**
- v. Create a query to show the first names that starts with letter "N"
- vi. Create a query to show the first names that ends with letter "A"
- vii. Create a query to return the students who were born in 1981 and save it as born in 1981.
- viii. Create a query to return all the students who were born in **November**.
- ix. Create a query to show students whose names ends with letter "Wa"
- x. create a query to compute the current age of each student. Name it Current age.
- xi. Create a query to show the details of patients who come from either **Jinja** or **Busia**. save it as
- xii. **Eastern patients**.
- xiii. Create a query to show all the details of the patients who were **not diagnosed with corona virus**. Save it as No corona virus.
- xiv. If the government **pays 20%** of the treatment fee for all patients, create a form called "**Ameri 2020**" and use it to calculate the discounted. **fee**. Put only **F name, DOB, Diagnosis** and **Treat fee** on the show. Save it as discounted fee.

Question 5

The table below shows Transaction records of AE family supermarket between 1990-2016.

Customer ID	Customer Name	Department	Phone	Trans Date	Salary
SH001	Ameri M	Research	0772-008-752	06/04/2006	950000
SH002	Okello H	Sales	0787-998-175	26/04/2010	260000
SH003	Nakintu N	Sales	0704-577-495	23/04/2011	440000
SH004	Matoovu K	Research	0758-439-752	14/04/2015	210000
SH005	Owino R	Operations	0702-666-790	02/05/2002	450000
SH006	Nakato N	Accounting	0752-777-999	08/05/1991	810000
SH007	Ampire A	Research	0750-666-867	16/07/2016	920000
SH008	Kato W	Operations	0700-111-122	12/04/2015	650000
SH009	James	Sales	0753-999-222	18/03/1990	610000
SH010	Felly B	Sales	0755-666-675	16/09/2008	520000

- i. Create a database called AE family.
- ii. Create a table using design view with appropriate data types and set the correct primary key.

Save table as stock.

- iii. Create a form called customer.
- iv. Use the form created above to enter the given records above.
- v. Fill your form with a background color of your choice.
- vi. Design a query to customers from the sales department. Save it as sales.
- vii. Design a query to display customers not in the sale's department.
- viii. Design a query to display customers from research department and their salary is above
ix. 300000.
- x. Design a query to display phone numbers that with "9".save your query as number 9
- xi. Design a query to display customers whose name starts with letter N with total price above
xii. 300000. Save it as letter N
- xiii. Design a query to display customers whose total salary is above 350000.save it as above
xiv. 350000.
- xv. Design a report to display information those customers whose total price is above
xvi. 350000. Save it as report by- your name
- xvii. Include a header and footer in your report.

Question 6

Create a database called sales company and design a table structure using appropriate data types in relation to the table below.

Sales men

Staff No	Surname	First Name	DoB	Residence	Product	Qty Sold	Price
ST001	Majani	Cliff	3/1/80	Kampala	Trousers	80	30000
ST002	Kolimba	Davis	4/9/85	Jinja	Bed sheets	70	40000
ST003	Kalinda	Jovia	6/11/79	Mukono	Trousers	50	25000
ST004	Naojwa	Rose	12/7/88	Jinja	Blankets	130	5000
ST005	Bakaka	Jista	11/11/75	Masaka	Shirts	50	50000
ST006	Bunju	Jeremiah	12/1/87	Mukono	Vests	68	35000
ST007	Baker	Abdu	7/8/78	Mbale	Trousers	111	6000
ST008	Dumba	John	6/9/84	Jinja	T-shirts	160	31000
ST009	Apio	Laura	7/12/85	Jinja	Bed sheets	100	20000
ST010	Miir	Dan	16/8/78	Mbale	Bed sheets	123	41000
ST011	Andiro	Joyce	7/7/77	Masaka	Trousers	90	41000
ST012	Ojambo	Eric	8/9/81	Busia	Jackets	61	34000
ST013	Ojok	Geoffrey	7/10/89	Mbale	Blankets	155	55000
ST014	Chacha	Omar	7/4/94	Kampala	Trousers	35	36000
ST015	Hakika	Tom	5/5/76	Busia	Trousers	78	39000

Required

- i. Create the database and its table as described above.
- ii. Create a query to display all salesmen from Mukono.
- iii. Create a query to display all salesmen from Jinja who sale Trousers.
- iv. Create a query to display all salesmen from Busia or Mbale.
- v. Create a query to display all salesmen from Mukono or Jinja who sale Trousers.
- vi. Create a query to display all salesmen who sold products at a price worthy 40000 and above.
- vii. Create a query to display all salesmen born before 1980.
- viii. Create a query to display all salesmen born after 1990.
- ix. Create a query to display all salesmen born after 1980 and before 1990.
- x. If Total Price is Quantity sold times Price, create a calculated query for total price. Include Surname, Residence, Product, Qty Sold and Price fields only.

- xi. If all products were sold at 30% that of purchasing price, create the calculated query for purchasing Price for each item. Include Surname, Product and Price fields only.
- xii. Due to very cold weather, Bed sheets and Blankets' prices have gone high by 20%. Create calculated query for New Price. Include Surname, Residence, Product and Price only.

Question 7

Your country is about to hold a referendum the electoral commission is looking good database administrator .You have been contacted to design and text your database with the following records

EC TABLE

VOTER	Name	Sex	DOB	Constituency	salary
U001	Mafabi	M	18-11-1980	Buwekula	560,000
U002	Mufulusi	M	02-6-1972	Agago	760,000
U003	Kikami	M	13-7-1984	Kyegegwa	990,000
U004	Serena	F	01-7-1964	Rukiga	450,000
U005	Patricia	F	13-10-1980	Ndorwa	390,000
U006	Badaru	F	15-03-1960	Masaka	685,000
U007	Patra	M	15-02-1970	Katikamu	845,000

- a) Create a database and name it electoral commission
- b) Create a table above in a design view use it to enter the records above EC table use appropriate data types and use lookup wizard.
- c) Create a query for all male voters and name it males.
- d) Create query for all female voters born before 1980 & name it AGED FEMALES
- e) Create a query for male voters with salary between 500,000 and 800,000 & name it BETWEEN
- f) Create a query for voters whose name start with M and name it "M names"
- g) Create a query for voters whose names end with "I" and name it I names
- h) Create a query for voters whose names start with M and P
- i) Create a query for voters with salary which is above 560000 but less than 800,000
- j) Create query for all voters except kikami
- k) Create a query for voters who were born from 1970 to 1980
- l) Create a query for r all voters who were born in July and name it July query.
- m) Create a query for all who were born after 1970 & save it as "greater than 1970"
- n) Create a query with an added field AGE to return their actual age save it as "actual age"

Question 8

Create a database called Kichui Kampala trading centre and design a table called customers .

Customer table

CustID	Lname	Fname	District	Sex	Date Of Birth	Tel No
C001	Kalema	James	Jinja	Male	12/09/1980	0773885544
C002	Namiiro	Loy	Busia	Female	11/08/1976	0773556543
C003	Opio	James	Soroti	Male	09/09/1971	0756454243
C004	Ajambo	Mercy	Busia	Female	07/06/1969	0712345665
C005	Omondi	Tom	Malaba	Male	08/12/1978	0789675655
C006	Ojambo	Lamek	Busia	Male	01/01/1971	0756555655
C007	Nambi	Ann	Jinja	Female	03/08/1982	0776565445
C008	Matata	Juma	Busia	Male	09/09/1975	0797876766
C009	Kisembo	Timothy	Mbale	Male	11/12/1984	0756765651
C010	Dawati	Lakati	Soroti	Male	2/01/1980	0712376565

Required

- i. Create the database and the table in design view. Enter the data as above
- ii. Create the query in design view to display the customers from Jinja.
- iii. Create the query to display only Female customers.
- iv. Create the query to display only Female customers from Busia.
- v. Create the query to display customers from Mbale or any other customer who id Female by gender.
- vi. Create a query to display all customers from Jinja or Soroti districts.
- vii. Create a query to display Busia or male customers, Lname field should be sorted in ascending order and the field CustID and Fname should be hidden in the datasheet view.
- viii. Create a query to display customers from Kampala.

Question 9

The table below was extracted from the database of Watisa Ltd, a firm that deals in importation and distribution of electrical appliances.

ID NO	First name	Last name	Gender	Date of birth	Residence	Basic pay	Tax
R01	Jabber	Debo	Male	01/05/1990	Matugga	880,000	
	Desire	Kisubi	Female	05/02/1995	Nansana	660,000	
	Ann	Vava	Female	17/09/1994	Wakiso	670,000	
	Faruok	Sekanjako	Male	20/06/1997	Gayaza	750,000	
	Alex	Njako	Male	13/04/2000	Kasangati	940,000	
	Thereza	Bamulanze	Female	12/04/2002	Kawanda	780,000	
	Tania	Mujjuzi	Female	20/12/1999	Gombe	790,000	
	Rona	Maseruka	Male	15/10/1996	Kyengera	820,000	
	Joyce	Opio	Female	16/07/1997	Namugongo	890,000	
	Ronald	Twino	Male	03/07/1997	Buddo	450,000	
	Theo	Ariho	Female	08/07/2001	Wakiso	560,000	
	Rashid	Dembe	Male	07/11/1985	Maya	888,000	

You are required to:

- a) Create a database file called Watisa Ltd. (02 marks)
- b) Create a table structure for the table above assigning it with appropriate data-types and primary key. Use auto number for **ID NO** as its data type and name it Wati table. (03 marks)
- c) Create a form called data and use it to calculate the tax column for all employees given that tax is calculated at **18%** of basic salary.
- d) Insert your name in the footer section. (03 marks)
- e) Create a query that can return all those employees whose last names begin with letter “M”. Name it M-Query and produce a print out. (03 marks)
- f) Generate a database object that can be used to return details of all those employees whose age is above 16 years. Name it above 16. (03 marks)
- g) Create a report for only female employees with an appropriate title and a footer of your name. (03 marks)
- h) Let your gross pay figures be displayed with a “SHS” currency symbol. (03 marks)

Question 10

Your school has decided to keep records of all food items to be kept in the store. You are then tasked to design a database called **Dining Records** and within your database you create the table called **Food Store** as below:

StockNo	Item	Category	ManDate	Quantity	Price
ST01	Maize Flour	Grain	22/3/2017	20	50000

ST02	Salt	Spice	12/4/2014	4	2000
ST03	Rice	Grain	14/4/2015	60	140000
ST04	Blue band	Oil	23/1/2018	7	3000
ST05	Beans	Grain	13/8/2011	24	40000
ST06	Royco	Spice	17/4/2009	13	4000
ST07	Kimbo	Oil	18/1/2018	11	6000
ST08	Ginger	Spice	16/8/2016	4	7000
ST09	Tea	Spice	14/7/2011	3	6000
ST10	Cinnamon	Spice	12/2/2010	8	8000

Required:

a) Now that your Head teacher has given you a job to create the database and its table as indicated above.

In the table design, ensure the following set field properties:

- i. Select the appropriate field and make it the primary key (01 mark)
- ii. Allocate appropriate data types in all fields of your table (03 marks)
- iii. Set the fields **Stock No**, **Item**, **Category** to field size of **4**, **15** and **10** respectively. (03 marks)
- iv. Set the **Price** field to be displayed using **UGX** monetary units. (01 mark)

b) Create a professional form based on your table in design view and your form should have the following

- i. A header, using the name of your school with 18 font size. (02 marks)
- ii. A closing button set at the right upper side of your form. (01 marks)
- iii. A calculated **Total Price** field by taking (**Quantity * Price**) (02 marks)
- iv. Include a background color of your choice. (01 marks)
- v. Save your form and name it as **School Entries**. (01 mark)

c) Create a query to display all spices that cost below 5000 Ugandan Shillings. Name your query as **Spice less 5000**. (06 marks)

d) Use a query to calculate the Item Age from the time it was manufactured to date and your new calculated age field should be **Item Age**. Save your query as Item **time Lapse**. (04 marks)

e) Create a report based on your table and it should be grouped by Categories. Include your name as a header. Save your report as Food Store Report. (05 marks)

Question 11

The table below shows Ameri housing Estate's property for rent.

Housing_Ref	Area	Type of house	Feature	Rent per month(shs)
H002	South	Detached	Water fall	150,000
H006	South	Bungalow	Pool	200,000
H008	West	Bungalow	Pond	350,000
H005	South	Detached	Pool	100,000
H003	North	Semi-detached	Courtyard	95,000
H004	West	Bungalow	Fishpond	190,000
H001	South	Semi-detached	Pool view	600,000
H007	North	Terraced	Pool view	500,000

- i. Create a database and save it as **your name and personal number**.
- ii. Design a table with appropriate data types to capture the given table.
- iii. Set **Housing_Ref** as the primary key for the table. Name it **Ameri table**.
- iv. Create a form from the Ameri table and name it as **Ameri Form**
- v. Use the form to enter the given data.
- vi. Include in the Ameri form a field for calculating a three month rent . Name the field **Total Rent**
- vii. Insert your name and personal number as a footer in the Ameri Form
- viii. Design a query to display detached houses in the south. Save it as Detached

- ix. Design a query to display bungalow houses. Save it as bungalow.
- x. Design a query to display from all houses but not semi-detached. Save it as semi-Detached.
- xi. Design a query to display pool view and save it as pool view. Save it as pool view.
- xii. Design a query to display pond and pool view only. Save it as pool view and pond feature.
- xiii. If Ameri increased rent by 10%, design a query to display the new rent per month. Save it as increment
- xiv. Increment
- xv. Sort by type of house the data in Ameri Table. Save it as Sorted table.
- xvi. Save and print your work.

Question 12

- a) To Create a table saved using the table name given ..

Table name: Basic Information

Surname	First name	sex	Date of Birth	Contact	District	Hobby
Katongole	Alvin	M	1980-21-01	0772480895	Jinja	Swimming
Mugomba	Isaac	M	1975-31-12	0782480895	Kampala	Cricket
SSekidde	Mustafa	M	1964-12-05	0782560895	Kampala	Hocket
Muwangala	Justus	M	1989-30-01	0701565562	Jinja	Football
Naiga	Sandra	F	1987-29-07	0701895895	Kampala	Cricket
Nsubuga	Anfield	M	1999-04-12	0782562894	Mbarara	Swimming
Nakalembe	Joyceline	F	1980-09-10	0752569965	Mukono	Hockey
Namuyiga	Harriet	F	1970-20-04	0788589874	Jinja	Football
Muwaguzi	Daniel	M	1987-31-03	0792120897	Kampala	Cricket
Kataike	Robinnah	F	1989-10-10	0772468894	Mbarara	Hockey
Musoke	Emmanuel	M	1976-20-07	0789123564	Mukono	Swimming

- b) Enter the details in the table above in your database.
- c) Using all field names, create a query to return **students**:
Note: save each query using a query name of your choice.
 - 1) Who are **female**.
 - 2) Whose telephone numbers begin with **"078"**
 - 3) Whose hobby is either **swimming or cricket**.
 - 4) Who come from jinja
 - 5) Who come from other districts a part from **Mbarara**.
 - 6) Whose surname begin with letters **"K-M"**
 - 7) Whose first name ends with letters **"a-I"**
 - 8) Who come from **Kampala** and hobby is **cricket, hockey and swimming**
 - 9) Whose surname begin with letter K, telephone number begin **"077"** and hobby is **swimming, hockey and cricket**.
 - 10) Whose hobby is **swimming**?
 - 11) Who were born in **1987**
 - 12) Who were born on **29th** of any month of any year?
 - 13) Who were born between **1975** and **1985**
 - 14) Who were born in **October**
 - 15) Whose Fname starts with letter **"A"**
 - 16) Whose surname starts with **"N"**
 - 17) Whose first name does not exceed **6 characters**?
 - 18) Combine Surname and first name to form full name e.g **JJAJA Ameri**.
 - 19) Introduce a new column called **Fullname** and include the following fields, **Contact, District and Hobby**.

FORMS

Question 13

Create a database called Student Payments and its table called Payment Details
Payment Details.

AdmNo	Fname	Lname	District	TusionFeePaid	BoardingFeePaid
A001	Miamba	John	Jinja	700000	300000
A002	Ganyana	Esther	Kampala	600000	400000
A003	Bampa	Amwine	Kampala	800000	350000
A004	Nambi	Mercy	Iganga	500000	200000
A005	Odongo	James	Gulu	750000	340000
A006	Babirye	Lorna	Kampala	800000	400000
A007	Apio	Miriam	Gulu	760000	400000
A008	Namala	Joyce	Jinja	700000	400000
A009	Anena	Khalidi	Gulu	740000	200000
A010	Uwera	Norah	Mbarara	600000	400000

Required

- Design the database and its table
- Populate your table.
- Create a form using Auto-form method and call it My Form.
- Create a split form and call it Data Split Form.
- Create a form using Form Wizard and call it Data form
- Create a form in Form Design view and call it Data Entry Form.
- Create a form in Form Design view. Type: "School Fees Management" as a header and type your names as footer. Include a closing command button at the right side of your header. Call it Form Header.
- Create a form in Design View ad use it to calculate Total Fees. Create the new field within a form called TotalFees to be used in your calculation. Type "Calculated Total Fee" as your form header. Save your form as Calculated Fee.
- Create a form in Form Design View. Use your form to calculate 20% of the Tution Fee bonus to be given to students. Type: "Major Bonus to students" as your form header. Call your form Bonus Form.
- Create a form in design View having all the fields. Create a combo box using District field which has Jinja, Kampala, Iganga, Gulu, Iganga, Mbarara and Busia as your dropdown list.

REPORTS

Question 14

Create a database called Nairobi Supermarket. Within this database create a table called Sales.
Sales

Sale No	Product Name	Date	Selling Price	Purchasing Price
1	Bread	1/1/2014	4000	3500
2	Sugar	1/1/2014	3000	2000
3	Apple Juice	1/1/2014	6000	4000
4	Bread	1/1/2014	4000	3500
5	Coffee	2/1/2014	10000	6000
6	Coffee	2/1/2014	10000	6000
7	Ginger	2/1/2014	6000	5000
8	Apple juice	2/1/2014	7000	5000
9	Sugar	3/1/2014	12000	7000
10	Bread	3/1/2014	2300	1500

11	Salt	3/1/2014	600	400
12	Apple Juice	3/1/2014	8000	5000
13	Ginger	3/1/2014	6000	4000
14	Salt	3/1/2014	800	500
15	Coffee	3/1/2014	14000	9000

Required:

1. Create the database and its table as shown above
2. Populate your table.
3. Create a quick report based on this table. Save it as Quick Report.
4. Create the report using the report wizard having Product Name field sorted in alphabetical order. Call it report by Product Name.
5. Create a report using the report wizard; group your records using Product Name field. Call it grouped by Product Name.
6. Create a calculated report using report wizard; group your records using Product Name. Add the new field called Profit and calculate the profit obtained after selling. Calculate the subtotals of profit made from each product. Call it Calculated Profit.

Question 15

Fortune industries Ltd deal in manufacturing of cooking oil and other products. They want you to make an operational database from the tabulated information below. Study the tabulated information carefully, to create a database and its related objects as instructed.

The table below gives information on some students in a certain secondary school about their registration numbers, names, class, age and names of houses where they reside.

Reg No	Names	Class	Age	House
001	Ssimbwa	S.3	16	Kabalega
002	Kizza V	S.2	14	Muteesa
003	Nambi Judith	S.2	15	Bikangaga
004	Kalanda Adam	S.3	16	Muteesa
005	Kibuuka D	S.2	13	Simba
006	Amit. J	S.1	12	Lumumba
007	Onen L.	S.3	17	Lumumba
008	Ssemuli M	S.5	17	Simba
009	Sendi J	S.1	11	Muteesa
010	Kasanya D	S.4	15	Bikangaga

- i) Create a table called person details with fields Reg No, Names, Class, Age and House, having appropriate data types, save it as Student table
- ii) Enter the data above in the table created using a data sheet.
- iii) Create a query for Muteesa and Simba house members, save it as Simba-Muteesa
- iv) Create a query for students whose ages range from 12 to 16. Save it as Middle age
- v) Create a report that shows the following fields; Name, class and House.
- vi) Create another query displaying all information in the table with only students whose name begins with S or K save it as SK query.
- vii) Use the query above to create a report save it as SK report

Question 16

Carefully study the information given below

Student ID	Surname	First Name	Sex	Club	Donation
BCM652	Kamusiime	Edwin	M	Interact	5000
BCM441	Moreri	Juliana	F	Debating	6300

BCM102	Mugerwa	Ronald	M	Writers	5500
BCM333	Akena	Kennedy	M	Interact	2200
BCM459	Kakaire	Musa	M	Writers	3600
BCM245	Ssentongo	David	M	Debating	9900
BCM134	Babirye	Lonah	F	Writers	5500
BCM101	Namulondo	Mary	F	Interact	6600
BCM376	Kafuko	Ivan	M	Debating	4700

Required

- Design a suitable database to manage the above information, name the Database BCM DATABASE. (02 marks)
- Create a table using Design view and name it STUDENTS TABLE (08 marks)
- Create a form called STUENDTS ENTRY FORM and entre the above records (06 marks)
- Create a query displaying all the fields in the above table to filter cut only students who are females. Save it as Females. Print the query and its output (03 marks)
- Create another query displaying all the fields of students with donations 5000 and above. Name it **5000 Plus**. Print the query and its output. (03 marks)
- Create a query displaying all the fields in the above table to filter out only studnts whose donations are between 2200 and 9900. Name it **Donations between 2200 and 9900** (02 marks)
- Create a query for filter out the students who donated at least 5000 in interact and Writers clubs. Name it Interact and Writers. Print the query and its output. (03 marks)
- Create a report using Donations between 2200 and 9900 query. Name it report between. Print the report (03 marks)

Question 17

Staff Records Table design details

Field Name	Data type	Field Size	Input Mask	Validation Rule	Validation Text
Staff No	Text	10	"STF"000\ -00		
Staff Name	Text	20			
Job	Text	20		Accept only HRM, Manager, Salesman, Clerk and Analyst	Invalid job description
Depart No	Number	Longer Integer		Less than 8000	Depart No should be less than 8000
Hire Date	Date/ Time			Less than 15 June 2003	The date should be less 15 June 2003
Salary	Currency			Less than 5001	The salary u have entered is too much.
Commission	Currency			Less than 1401	The commission should be less than 1401.
Department	Text			Acceptable departments are Accounting, Research, Sales and Operations.	You have entered an invalid department. Try again.

Staff Records Table

Staff No.	Staff Name	Title	Hire Date	Salary	Commission	Department
STF-01	Zubedah	HRM	17 Nov 99	\$5000	0	Accounting
STF-02	Vybv Kartel	Manager	01 May 03	\$2850	0	Sales
STF-03	Arafa Karim	Manager	09 June 99	\$2450	0	Accounting

STF-04	Mustafa	Salesman	28 Sept 99	\$1250	1400	Sales
STF-05	A Pass	Salesman	20 Feb 99	\$1600	300	Sales
STF-06	Chriss Martin	Clerk	03 Dec 99	\$950	0	Sales
STF-07	Judy wood	Analyst	03 Dec 98	\$3000	0	Research
STF-08	Ketchup Ft	Salesman	22 Feb 03	\$1250	500	Sales
STF-09	Roy Blake	Analyst	15 May 02	\$2500	600	Research
STF-10	Mull Clark	Salesman	06 Aug 01	\$3200	350	Accounting

- Using a suitable program, create a database and save it using 'your first name and personal number e.g. – "Mark_U0001_010"'. (2 marks)
- Basing on the tabulated information above create a table structure above. Set relevant primary key. Name the table "**Staff Records Table**". (10 marks)
- Create a form in design view and use it to populate the Staff Records Table above. Give your form a suitable name. (7 marks)
- Create a query to display only Staff Name, Department, Hire date, and with a salary more than 2300. Name the query "**The Rich**". (5 marks)
- Sort the records in the Staff Records Table in a way that makes the most highly paid person appearing first. (2 marks)
- Create a "**Rich Report**" basing it on the query created in (e) above. (4 marks)

Question 18

Create a database for *Jinja Bridal Car Hire Ltd* saved as **bridal** and carry out the following tasks.

<i>Employee_Name</i>	<i>Sex</i>	<i>Date_of_Birth</i>	<i>Car_Type</i>	<i>Employee_ID</i>	<i>Remarks</i>
<i>Kalambe Daphine</i>	<i>F</i>	<i>1980, 11 - 18</i>	<i>Premio</i>	<i>JBCH-200</i>	<i>Good work</i>
<i>Sanjay Hussein</i>	<i>M</i>	<i>1978, 02 - 27</i>	<i>Benz</i>	<i>JBCH-010</i>	
<i>Kapalaga Michael</i>	<i>M</i>	<i>1984, 10 - 30</i>	<i>Premio</i>	<i>JBCH-001</i>	<i>Experienced</i>
<i>Nabukera Joan</i>	<i>F</i>	<i>1991, 11 - 30</i>	<i>Premio</i>	<i>JBCH-019</i>	<i>Time keeper</i>
<i>Sentongo Philip</i>	<i>M</i>	<i>1962, 01 - 10</i>	<i>Wish</i>	<i>JBCH-180</i>	
<i>Muwanguzi Vivian</i>	<i>F</i>	<i>1973, 04 - 01</i>	<i>Premio</i>	<i>JBCH-150</i>	<i>Co-opertive</i>
<i>Kato William</i>	<i>M</i>	<i>1950, 06 - 02</i>	<i>Wish</i>	<i>JBCH-090</i>	<i>Experienced</i>
<i>Walugembe Alex</i>	<i>M</i>	<i>1992, 06 - 14</i>	<i>Benz</i>	<i>JBCH-060</i>	<i>Time keeper</i>
<i>Okello Stephen</i>	<i>M</i>	<i>1982, 01 - 31</i>	<i>Wish</i>		<i>Eratic</i>

Instructions:

- Design a table saved as **drivers** to hold the above data.
- Using appropriate field, assign a primary key.
- Design a form having a sky-blue background colour, footer of your name you will use to populate the table. Save the form as **data entry**.
- Design three queries that will return workers who:
 - have no remarks against their records. Save the query as **not appraised**.
 - drive Car_Type that is *not a Wish*. Save the query as **Wish**.
 - celebrate birth day in the month of January. Save the query as **bornjan**.
- Create a report to return drivers who drive a premio Car_Type. Save the report as **premio**.

Create a report having all the records on one sheet. Save the report as **all**. The report should have the following details:

- A good red line boarder.
- Count of the records it holds
- Group and sort your records in order of level A-Z

- (iv). Add a title: **MOTO VEHICLES**
- (g) Add Header as Your Name and Your Gender as Footer on the report
- (f) Print your queries and report only.

END

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