1814ICT/2814ICT – DATA MANAGEMENT
7003ICT – DATABASE DESIGN
School of Information & Communication Technology
Trimester _1_, 2021_

Assignment Part 2:
Implementing a Database for A* Faishon

ASSIGNMENT TITLE: **DATABASE IMPLEMENTATION FOR A*FAISHON**

GROUP NUMBER:
120

s-Number	Full name	Course Code	Contribution %	Signature*
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	Total contributions		100%	

Follow the note below.

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Declaration
Except where appropriately acknowledged, this assignment is our own work, has been expressed in our own words and has not previously been submitted for assessment. We have also retained a copy of this assessment piece for our own records.

Student 1:	Student 2:	Student 3:
Name: Shehryar Mallick	Name: Vinol Chris Dsouza	Name: Deewan J Darroca
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Date: 17-05-2024 *	Date: 17-05-2024 *	Date: 17-05-2024 *

Follow the note below.

Note: All students in the group must sign & date (electronically or with pen) on this first page.

Contents

List of Illustrations

[Generate a list of figures and tables with page numbers.]

Acknowledgements:

[List names of staff and students you have discussed with about this assessment.]

1) John Wang

Reports on SQL Queries in Task 3

[Place each SQL Query and its output table below.]

Query 1:

```
SELECT concat(Staff_FName,' ', Staff_LName) AS Name, Apt_Hourly_Rate
FROM staff s, appointment a
WHERE s.Staff_Apt_Level = a.Apt_Lvl_ID
ORDER BY a.Apt_Hourly_Rate DESC;
```

Output table:

Name	Apt_Hourly_Rate ▾ 1
Oliver Taylor	150.00
Sophia Chen	120.00
Ethan Rodriguez	100.00
Ava Nguyen	80.00
Noah Wang	65.00

Figure 1: Query 1 output

Query 2:

```
SELECT Concat(c.Cust_Fname, ' ', c.Cust_Lname) AS "Customer
Name", o.CustOrd_Date
FROM customer c, customerorder o
ORDER BY CustOrd_Date DESC
LIMIT 1 OFFSET 2;
```

Output table:

←T→	Customer Name	CustOrd_Date
☐ Edit Copy Delete	Alice Johnson	2024-05-14

Figure 2: Query 2 output

Query 3:

```
SELECT Str_Name,concat(Staff_FName,'
',Staff_LName) as Name,Staff_Apt_Level,Apt_hourly_rate
FROM store s, staff st, appointment a
WHERE s.StoreManagerID=st.Staff_ID
AND st.Staff_Apt_Level=a.Apt_Lvl_ID
ORDER BY Apt_hourly_rate DESC;
```

Output table:

Str_Name	Name	Staff_Apt_Level	Apt_hourly_rate ▾ 1
Trendy Threads Brisbane	Oliver Taylor	M1	150.00
Chic Boutique Sydney	Oliver Taylor	M1	150.00
Elegant Attire Perth	Sophia Chen	M2	120.00
Urban Style Melbourne	Sophia Chen	M2	120.00
Fashion Hub Adelaide	Ethan Rodriguez	S1	100.00

Figure 3: Query 3 output

Query 4:

```
SELECT p.Prod_Num, p.Prod_Desc, p.Prod_TypeID, p.Prod_Size,
SUM(o.OrdLn_Qnty) AS Total_Quantity_Sold
FROM product p
JOIN orderline o
ON p.Prod_Num = o.Prod_Num
WHERE o.OrdLn_DatePicked IS NOT NULL
GROUP BY p.Prod_Num, p.Prod_Desc, p.Prod_TypeID, p.Prod_Size;
```

Output table:

Prod_Num	Prod_Desc	Prod_TypeID	Prod_Size	Total_Quantity_Sold
1	Blue T-shirt	1	Large	2
2	Black Jeans	2	Medium	3
3	Red Dress	3	Small	4
4	Leather Jacket	4	XL	5
5	Sneakers	5	10	6

Figure 4: Query 4 output

Query 5:

```
Select p.Prod_Num,p.Prod_Desc,pt.Prod_Type_Desc,SUM(OrdLn_Qnty) as Total_
Quantity_Sold
FROM product p,producttype pt, orderline o
WHERE p.Prod_TypeID = pt.Prod_TypeID AND p.Prod_Num = o.Prod_Num AND o.Or
dLn_DatePicked <='2024-05-20' GROUP BY p.Prod_Num
ORDER BY p.Prod_Num, SUM(OrdLn_Qnty);
```

Output table:

Prod_Num ▲ 1	Prod_Desc	Prod_Type_Desc	Total_Quantity_Sold
1	Blue T-shirt	T-shirt	2
2	Black Jeans	Jeans	3
3	Red Dress	Dress	4
4	Leather Jacket	Jacket	5
5	Sneakers	Shoes	6

Figure 5: Query 5 output

Query 6:

```
SELECT S.STAFF_ID, CONCAT(S.STAFF_FNAME, ' ', S.STAFF_LNAME) AS 'name',
COUNT(DISTINCT S1.STAFF_ID) AS '# OF STAFF'
FROM STAFF AS S, STAFF AS S1, STORE AS STR
WHERE S.STAFF_ID = S1.SUPVISORID AND STR.STOREMANAGERID = S.STAFF_ID
GROUP BY S.STAFF_ID;
```

Output table:

STAFF_ID	name	# OF STAFF
1	Oliver Taylor	2
2	Sophia Chen	1
3	Ethan Rodriguez	1

Figure 6: Query 6 output

Query 7:

```
SELECT i.Prod_Num, p.PROD_DESC,SUM(i.Inv_QtyOrdered)-
SUM(i.Inv_QntyOnHand) as 'Shortage'
FROM inventory i, product p WHERE i.Prod_Num=p.Prod_Num GROUP BY i.Prod_N
um HAVING SUM(i.Inv_QtyOrdered)>SUM(i.Inv_QntyOnHand);
```

Output table:

Prod_Num	PROD_DESC	Shortage
2	Black Jeans	50
3	Red Dress	5

Figure 7: Query 7 output