Open Polytechnic
KURATINI TUWHERA

Assessment Marks: BIT604v2 - Assessment 3	Result	98.00 / 100.00
	Percentage	98 %

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Overall Comments

Excellent. Congratulations. Wish you well in your future studies.

Assessment Marks: BIT604v2 - Assessment 3

Create a database and implement structured data types	Section Result	8.00 / 8.00

Question 1: Creating the database

Use SQL to complete the following task.

Create the RHA database in MySQL. Then create the database tables according to the information given in the RHA scenario and the metadata tables.

Finally, populate the database tables with the given sample data. The SQL scripts to populate the RHA database tables are next to this assignment document on the same page.

Provide the SQL codes (only for creating the tables) and the screenshots of the resulting tables.

Assessment Criteria				Result:	4.00 / 4.00

1-1.5 marks	2 marks	2.5 marks	3 marks	4 marks
Inadequate and incorrect creation of a database and implementation of structured data types.	The database created and structured data types implemented, but solutions are insufficient or only partially correct.	The created database and implemented data types are mostly correct.	The created database and implemented data types are appropriate, but not fully meet the given business requirements.	The created database and implemented data types are correct and fully correspond to the given business requirements.

Marking Comments

Question 2: Enforcing referential integrit

Write and execute the SQL statements to establish appropriate relationships between the created tables, so that the referential integrity is enforced.

Provide the SQL codes and the screenshot of the result (show the Foreign Keys tab in the table properties window in MySQL Workbench).

Assessment Criteria				Result:	4.00 / 4.00

1-1.5 marks	2 marks	2.5 marks	3 marks	4 marks
Inadequate and incorrect creation of a database and implementation of structured data types.	The database created and structured data types implemented, but solutions are insufficient or only partially correct.	The created database and implemented data types are mostly correct.	The created database and implemented data types are appropriate, but not fully meet the given business requirements.	The created database and implemented data types are correct and fully correspond to the given business requirements.

Marking Comments

Apply security measures		Section Result	3.00 / 3.00

Question 3: Write and execute the SQL statements

Write and execute the SQL statements to

- Create a database user with the username Mahajan who is only allowed to select and insert data in the APARTMENT table. Mahajan should have a
  password 'mahajan_password'.

- Create another database user with the username Nomikos who will have access to any table in the RHA database and full rights to manipulate data. This user should be assigned a password 'nomikos_password'.
- Remove both users from the RHA database.

Provide the SQL statements.

Assessment Criteria		Result:	3.00 / 3.00

1 mark	1.5 marks	2 marks	2.5 marks	3 marks
Inadequate and incorrect application of security measures.	The security measures applied, but solutions are insufficient or only partially correct.	The applied security measures are mostly relevant to the given task.	The applied security measures are appropriate, but not fully meet the given requirements.	The security measures are correctly applied, and fully meet the given requirements.

Marking Comments

Create and run Structured Query Language (SQL) queries		Section Result	87.00 / 89.00

Question 4

Create and execute the SQL query to display apartment number, building name, number of bedrooms, location, and price for all apartments.

Sort the result by price within the number of bedrooms. Provide the SQL codes and the screenshot of the result.

Assessment Criteria		Result:	5.00 / 5.00

1 mark	2 marks	3 marks	4 marks	5 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 5

Create and execute the SQL query that lists the apartment number, building name, location, apartment type, number of bedrooms, and price for each standard-type apartment with one or two bedrooms and price between $100 and $150 per night.

The result should be sorted by price in descending order. Provide the SQL codes and the screenshot of the result.

Assessment Criteria				Result:	4.00 / 6.00

1 mark	2-3 marks	4 marks	5 marks	6 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

No join is given. Adding that will give the correct rows.

Question 6

Create and execute the SQL query that lists the building ID, building name, and the number of apartments in each apartment building.

Sort the result by the number of apartments in ascending order.

Assessment Criteria				Result:	6.00 / 6.00

1 mark	2-3 marks	4 marks	5 marks	6 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 7

Create and execute the SQL query to find how many apartment buildings provide the Penthouse type apartments.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria				Result:	5.00 / 5.00

1 mark	2 marks	3 marks	4 marks	5 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 8

Create and execute the SQL query to display the reservation ID, dates of reservation, and visitor names for all reservations that end in October 2020.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria				Result:	6.00 / 6.00

1 mark	2-3 marks	4 marks	5 marks	6 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 9

Create and execute the SQL query to find the average price and the maximum price of a standard one-bedroom apartment.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria			Result:	5.00 / 5.00
1 mark	**2 marks**	**3 marks**	**4 marks**	**5 marks**
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 10

Create and execute the SQL query to find the possible total revenue per night from all standard-type and garden-type two-bedroom apartments.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria			Result:	6.00 / 6.00
1 mark	**2-3 marks**	**4 marks**	**5 marks**	**6 marks**
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 11

Create and execute the SQL query that finds how many different visitors have made reservations that included at least one day in October 2020.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria		Result:	7.00 / 7.00

1-3 mark	4 marks	5 marks	6 marks	7 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 12

Create and execute the SQL query to display apartment number, building ID, building name, and apartment type for all two-bedroom apartments that belong to the garden type or penthouse type.

Sort the result by the apartment type. Create two versions of this query:

• Version (a) should use the IN operator.

• Version (b) should not use the IN operator.

Provide the SQL codes and the screenshot of the result for both versions of the query.

Assessment Criteria		Result:	12.00 / 12.00

1-2 mark	3-6 marks	7-9 marks	10-11 marks	12 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 13

Create and execute the SQL query that displays the IDs and names of all visitors who have reserved a one-bedroom apartment. The visitor's name should appear in uppercase letters.

Use the IN operator in your query and use subquery to return a list of values in your query.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria			Result:	7.00 / 7.00
1-3 mark	**4 marks**	**5 marks**	**6 marks**	**7 marks**
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 14

Create and execute the SQL query to find the apartment number, type, number of bedrooms, and price of all apartments at the Beach View apartment building.

The result should be sorted by price. Create two versions of the SQL query:

a. The SQL code includes a subquery.;

b. The SQL code does not use a subquery.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria			Result:	10.00 / 10.00
1-3 mark	**4-5 marks**	**6-7 marks**	**8-9 marks**	**10 marks**
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Question 15

Create and execute the SQL query to find how many different visitors have stayed at the RHA apartments on 25 October 2020.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria				Result:	6.00 / 6.00

1 mark	2-3 marks	4 marks	5 marks	6 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments

Another WHERE is:
WHERE (dateFrom <= '2020-10-25' AND dateTo >= '2020-10-25');

Question 16

Create and execute the SQL query that lists all visitors who were staying at the Beach View apartment building on the 10th of October 2020.

Provide the SQL codes and the screenshot of the result.

Assessment Criteria				Result:	8.00 / 8.00

1-2 mark	3-4 marks	5-6 marks	7 marks	8 marks
Inadequate application of SQL resulting in the creation of non-functional database solutions or ones that do not suit the given requirements.	Applies SQL to create somewhat functional database solutions that suit only some of the given requirements.	Applies SQL to create mostly functional database solutions that predominantly suit the given requirements.	Correct application (source code is readable; output is well presented and user friendly) of SQL to create functional database solutions that are tailored to the given requirements.	Exemplary application (source code is efficient and readable; output is perfectly presented and user friendly) of SQL to create fully functional database solutions that are tailored to the given requirements.

Marking Comments