**Test 2**

**[Total Marks: 100]**

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| **Instructor:** | Jigisha Patel |
| **Class:** | 2018W\_CSD 2204\_9  Database Design and SQL |
| **Time:** | 2 Hours |
| **Evaluation:** | 15% |

* Students are NOT allowed to possess any unauthorized aids on their desks, or in their pockets, including electronic devices of ANY kind, unless otherwise stated. This includes CELL PHONES, iPod and CALCULATORS.
* Turned off cell phones, laptops and other unauthorized items, purses and wallets should be stored inside the candidate’s bag and closed securely. All bags and study materials (notes and books) should be placed on front side of class.
* Candidates are not allowed to reach into the bags and pocket or any of their study materials until the exam is over.
* Candidates must not communicate with one another in any manner whatsoever during the examination.
* Candidates may not leave the examination room unescorted for any reason, including visiting the washroom.
* Candidates are expected to show consideration for others in the exam room and to refrain from causing any type of disturbance which could interfere with the ability of fellow students to concentrate and this may cause your cancellation of exam paper.
* Candidates are not allowed to enter the exam after 30 minutes of exam commencement and not allowed to leave the exam before 10 minutes of the exam.

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| |  |  | | --- | --- | | **Date:** | **22 Jan 2018, Monday** | | **Student Name:** | **Navneet kaur** | | **Student Number:** | **co730444** | |

**Note:**

1. Fill your details on 1st page.
2. Rename this file as **CollegeID\_FirstName\_CSD2204\_Test2.docx**.
3. Also create a log file of your MySQL command prompt content using **“tee”** command into file named as **CollegeID\_FirstName\_CSD2204\_Test2\_Log.docx.**
4. Create a .zip file containing both the .docx files and upload it on Moodle for submission.

**Execute the following Queries:**

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| **Sr. #** | **Query text** | **Marks** |
| 1) | Use the given **Test2.sql** file for creating tables and data in your database. | **[10]** |
|  | CREATE TABLE Employee (  EmployeeID INTEGER PRIMARY KEY,  Name VARCHAR(**255**) NOT NULL,  Position VARCHAR(**255**) NOT NULL,  Salary REAL NOT NULL,  Remarks VARCHAR(**255**)  );  INSERT INTO Employee VALUES(1, 'Phillip J. Fry', 'Delivery boy', 7500.0, 'Not to be confused with the Philip J. Fry from Hovering Squid World 97a');  INSERT INTO Employee VALUES(2, 'Turanga Leela', 'Captain', 10000.0, NULL);  INSERT INTO Employee VALUES(3, 'Bender Bending Rodriguez', 'Robot', 7500.0, NULL);  INSERT INTO Employee VALUES(4, 'Hubert J. Farnsworth', 'CEO', 20000.0, NULL);  INSERT INTO Employee VALUES(5, 'John A. Zoidberg', 'Physician', 25.0, NULL);  INSERT INTO Employee VALUES(6, 'Amy Wong', 'Intern', 5000.0, NULL);  INSERT INTO Employee VALUES(7, 'Hermes Conrad', 'Bureaucrat', 10000.0, NULL);  INSERT INTO Employee VALUES(8, 'Scruffy Scruffington', 'Janitor', 5000.0, NULL);  CREATE TABLE Planet (  PlanetID INTEGER PRIMARY KEY,  Name VARCHAR(**255**) NOT NULL,  Coordinates REAL NOT NULL  );  INSERT INTO Planet VALUES(1, 'Omicron Persei **8**', 89475345.3545);  INSERT INTO Planet VALUES(2, 'Decapod X', 65498463216.3466);  INSERT INTO Planet VALUES(3, 'Mars', 32435021.65468);  INSERT INTO Planet VALUES(4, 'Omega III', 98432121.5464);  INSERT INTO Planet VALUES(5, 'Tarantulon VI', 849842198.354654);  INSERT INTO Planet VALUES(6, 'Cannibalon', 654321987.21654);  INSERT INTO Planet VALUES(7, 'DogDoo VII', 65498721354.688);  INSERT INTO Planet VALUES(8, 'Nintenduu **64**', 6543219894.1654);  INSERT INTO Planet VALUES(9, 'Amazonia', 65432135979.6547);  CREATE TABLE Shipment (  ShipmentID INTEGER PRIMARY KEY,  ShipmentDate DATE,  Manager INTEGER NOT NULL,  Planet INTEGER NOT NULL,  FOREIGN KEY (Manager) REFERENCES Employee(EmployeeID),  FOREIGN KEY (Planet) REFERENCES Planet(PlanetID)  );  INSERT INTO Shipment VALUES(1, '**3004**/**05**/**11**', 1, 1);  INSERT INTO Shipment VALUES(2, '**3004**/**05**/**11**', 1, 2);  INSERT INTO Shipment VALUES(3, NULL, 2, 3);  INSERT INTO Shipment VALUES(4, NULL, 2, 4);  INSERT INTO Shipment VALUES(5, NULL, 7, 5);  CREATE TABLE Has\_Clearance (  Employee INTEGER NOT NULL,  Planet INTEGER NOT NULL,  Level INTEGER NOT NULL,  PRIMARY KEY(Employee, Planet),  FOREIGN KEY (Employee) REFERENCES Employee(EmployeeID),  FOREIGN KEY (Planet) REFERENCES Planet(PlanetID)  );  INSERT INTO Has\_Clearance VALUES(1, 1, 2);  INSERT INTO Has\_Clearance VALUES(1, 2, 3);  INSERT INTO Has\_Clearance VALUES(2, 3, 2);  INSERT INTO Has\_Clearance VALUES(2, 4, 4);  INSERT INTO Has\_Clearance VALUES(3, 5, 2);  INSERT INTO Has\_Clearance VALUES(3, 6, 4);  INSERT INTO Has\_Clearance VALUES(4, 7, 1);  CREATE TABLE Client (  AccountNumber INTEGER PRIMARY KEY,  Name VARCHAR(**255**) NOT NULL  );    INSERT INTO Client VALUES(**1**, 'Zapp Brannigan');  INSERT INTO Client VALUES(**2**, "Al Gore's Head");  INSERT INTO Client VALUES(3, 'Barbados Slim');  INSERT INTO Client VALUES(4, 'Ogden Wernstrom');  INSERT INTO Client VALUES(5, 'Leo Wong');  INSERT INTO Client VALUES(6, 'Lrrr');  INSERT INTO Client VALUES(7, 'John Zoidberg');  INSERT INTO Client VALUES(8, 'John Zoidfarb');  INSERT INTO Client VALUES(9, 'Morbo');  INSERT INTO Client VALUES(10, 'Judge John Whitey');  INSERT INTO Client VALUES(11, 'Calculon');    CREATE TABLE Package (  Shipment INTEGER NOT NULL,  PackageNumber INTEGER NOT NULL,  Contents VARCHAR(**255**) NOT NULL,  Weight REAL NOT NULL,  Sender INTEGER NOT NULL,  Recipient INTEGER NOT NULL,  PRIMARY KEY(Shipment, PackageNumber),  FOREIGN KEY (Shipment) REFERENCES Shipment(ShipmentID),  FOREIGN KEY (Sender) REFERENCES Client(AccountNumber),  FOREIGN KEY (Recipient) REFERENCES Client(AccountNumber)  );  INSERT INTO Package VALUES(1, 1, 'Undeclared', 1.5, 1, 2);  INSERT INTO Package VALUES(2, 1, 'Undeclared', 10.0, 2, 3);  INSERT INTO Package VALUES(2, 2, 'A bucket of krill', 2.0, 8, 7);  INSERT INTO Package VALUES(3, 1, 'Undeclared', 15.0, 3, 4);  INSERT INTO Package VALUES(3, 2, 'Undeclared', 3.0, 5, 1);  INSERT INTO Package VALUES(3, 3, 'Undeclared', 7.0, 2, 3);  INSERT INTO Package VALUES(4, 1, 'Undeclared', 5.0, 4, 5);  INSERT INTO Package VALUES(4, 2, 'Undeclared', 27.0, 1, 2);  INSERT INTO Package VALUES(5, 1, 'Undeclared', 100.0, 5, 1); |  |
| 2) | Create a view to display employees whose name is "Turanga Leela" along with its shipment details. | **[10]** |
| **Query** | create view V2 AS select \* from employee where name ="turanga leela"; |  |
| **Result** |  |  |
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| 3) | Create a view “v3” to list those packages which are intended for client whose ids are 1,5 or 6. | **[10]** |
| **Query** |  |  |
| **Result** |  |  |
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| 4) | Create a view “v4” to display name of employee and plant which are cleared. | **[10]** |
| **Query** |  |  |
| **Result** |  |  |
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| 5) | Create a view “v5” to display details of shipment date (Month, Day YYYY), sender and receiver name whose package weight is between 5 and 10. | **[10]** |
| **Query** |  |  |
| **Result** |  |  |
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| 6) | Create a view “v6” to display details of those shipments which are currently in process at plant name "Mars" or "Decapod X". | **[10]** |
| **Query** |  |  |
| **Result** |  |  |
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| 7) | Create a view “v7” to list client names whose packages are "Undeclared". | **[10]** |
| **Query** |  |  |
| **Result** |  |  |
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| 8) | Create a view “v8” to display name of recipient who has undeclared package contents which is processed by employee “Hermes Conrad”. | **[10]** |
| **Query** |  |  |
| **Result** |  |  |
|  |  |  |
| 9) | Create a view “v9” to display the name of manager who is having any shipment from planet “Omega III” | **[10]** |
| **Query** |  |  |
| **Result** |  |  |
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| 10) | Update shipment date to current date if having NULL value. | **[10]** |
| **Query** |  |  |
| **Result** |  |  |