

## **Institute of Software Engineering**

Graduate Diploma in Software Engineering (GDSE)

GDSE67\_68

Database Management Systems

Take Home Assignment 03

CID	Name	Address	Contact	<b>Email</b>
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Project [P]	X—>PID]			
PID	CID	<b>Estimated Cost</b>	startDate	<u>endDate</u>
P01	C01	60000000.00	2013-01-01	2014-01-01
D00	C01	45000000.00	2013-02-01	2014-04-20
P02				
P02 P03	C02	36000000.00	2013-03-01	2014-01-20

#### Material [PK—>MID]

MID	Name	sellingPrice	buvingPrice	gtvOnHand	packSize
M01	Cement-mer	700.00	625.00	40	50kg
M02	Cement-mah	750.00	650.00	50	50kg
M03	Sand	2500.00	2350.00	25	Cube
M04	Coil	2400 00	2300 00	80	Rim

# Project\_material\_detail [PK—>PID,MID] [FK —>PID,MID]

PID	MID	Date	QTY
P01	M01	2013-03-01	5
P01	M03	2013-03-03	1
P02	M01	2013-04-04	1

Write SQL queries to fulfill the following requirements (Data Control Language)

#### Part I

- 1. Create a user called 'gdse67' and assign a password to 'gdse67' called ijse123.
- 2. Create a database called 'EXAM2014'.
- 3. Grant all the global privileges on 'gdse67' except 'ALTER'.
- 4. After you complete question 3 you must have reload privileges which you have assigned using FLUSH command.
- 5. Create a SQL DUMP (SQL backup) on the EXAM2014 database.

#### Part II

- 1. Implement the above tables using SQL queries, you are required to set all the table constraints such as primary key, foreign key, integrity, null, not null, etc...
- 2. Insert the above records into each table.
- 3. Find all the customers who have been assigned projects.
- 4. How long will each project take to finish in days?
- 5. Find the customers who have spent more than 50000000.00 on their constructions.

- 6. Delete all customers who have not been involved with at least one project using a sub-query.
- 7. Increate the project's cost by 10% which was scheduled to be start in next year (2015).

### Part III

- 1. Find the total cost of the project for each customer.
- 2. Find the material cost of each project.
- 3. Find all customers who have exceeded 100 cement-mah packs for all their constructions.
- 4. Find the profit of each customer that the company received.
- 5. Create a view called 'Company Profit' for the question 4 query.