UNIVERSITATEA BUCURESTI

FACULTATEA DE MATEMATICA SI INFORMATICA

REALIZAT DE OPRAN ANDREI  
GRUPA 142

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DEALER AUTO

Universitatea Bucuresti

Facultatea de Matematica si Informatica

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Realizat de Andrei Opran

Grupa 142

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# **1. Descrierea modelului real, a utilității acestuia și a regulilor de funcționare.**

## Descrierea modelului real

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## Utilitatea

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## Functionalitati

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# **2. Prezentarea constrângerilor (restricții, reguli) impuse asupra modelului.**

## Tabela SHOWROOM

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## Tabela ADRESE

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## Tabela ANGAJATI\_SHOWROOM

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## Tabela CARBURANTI

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## Tabela CAROSERII

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## Tabela CLIENTI

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## Tabela MECANICI

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## Tabela MOTOARE

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## Tabela MOTOARE\_CARBURANT

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## Tabela MOTOARE\_ELECTRICE

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## Tabela PLATI

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## Tabela SERVICE

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## Tabela TRANZACTII

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## Tabela VANZATORI

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## Tabela VEHICULE

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## Tabela VEHICULE\_DETINUTE\_CLIENTI

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# **3. Descrierea entităților, incluzând precizarea cheii primare**

## Entitatea SHOWROOM

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam turpis tellus, facilisis laoreet eleifend nec, mollis nec lectus. Proin a dolor fringilla, consectetur lectus nec, porttitor odio. Sed sollicitudin eget risus vitae maximus.

## Entitatea ADRESE

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## Entitatea ANGAJATI\_SHOWROOM

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam turpis tellus, facilisis laoreet eleifend nec, mollis nec lectus. Proin a dolor fringilla, consectetur lectus nec, porttitor odio. Sed sollicitudin eget risus vitae maximus.

## Entitatea CARBURANTI

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## Entitatea CAROSERII

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## Entitatea CLIENTI

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam turpis tellus, facilisis laoreet eleifend nec, mollis nec lectus. Proin a dolor fringilla, consectetur lectus nec, porttitor odio. Sed sollicitudin eget risus vitae maximus.

## Entitatea MECANICI

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## Entitatea MOTOARE

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## Entitatea MOTOARE\_CARBURANT

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## Entitatea MOTOARE\_ELECTRICE

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## Entitatea PLATI

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam turpis tellus, facilisis laoreet eleifend nec, mollis nec lectus. Proin a dolor fringilla, consectetur lectus nec, porttitor odio. Sed sollicitudin eget risus vitae maximus.

## Entitatea SERVICE

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## Entitatea TRANZACTII

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## Entitatea VANZATORI

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## Entitatea VEHICULE

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## Entitatea VEHICULE\_DETINUTE\_CLIENTI

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# **4. Descrierea relațiilor, incluzând precizarea cardinalității acestora**

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# **5. Descrierea atributelor, incluzând tipul de date și eventualele constrângeri, valori implicite, valori posibile ale atributelor.**

## Tabela SHOWROOM

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## Tabela ADRESE

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## Tabela ANGAJATI\_SHOWROOM

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## Tabela CARBURANTI

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## Tabela CAROSERII

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## Tabela CLIENTI

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## Tabela MECANICI

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## Tabela MOTOARE

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## Tabela MOTOARE\_CARBURANT

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## Tabela MOTOARE\_ELECTRICE

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## Tabela PLATI

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## Tabela SERVICE

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## Tabela TRANZACTII

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## Tabela VANZATORI

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## Tabela VEHICULE

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## Tabela VEHICULE\_DETINUTE\_CLIENTI

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# **6. Realizarea diagramei entitate-relație corespunzătoare descrierii de la punctele 3-5.**

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# **7. Realizarea diagramei conceptuale corespunzătoare diagramei entitate-relație proiectate la punctul 6. Diagrama conceptuală obținută trebuie să conțină minimum 7 tabele (fără considerarea subentităților), dintre care cel puțin un tabel asociativ.**

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# **8**. **Enumerarea schemelor relaționale corespunzătoare diagramei conceptuale proiectate la punctul 7.**

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# **9. Realizarea normalizării până la forma normală 3 (FN1-FN3).**

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# **10. Crearea unei secvențe ce va fi utilizată în inserarea înregistrărilor în tabele (punctul 11).**

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