|  |  |  |
| --- | --- | --- |
|  | Data Administrator A’s plan | Data Administrator A’s plan |
| Advantages | 1. Stores JSON format. 2. Relational database. 3. OLTP | 1. Save time, less storage memory, and less cost of maintenance, 2. Stores JSON format. 3. Fast execution. 4. Schema can be made at multilevel. |
| Disadvantages | 1. Sharding not possible. 2. Bulky database. 3. Takes time to execute long queries, Needs more storage memory, and high cost of maintenance, | 1. Need More setting to calibrate. 2. Relational operation cannot be performed. 3. Schema does not have definite shape. |

use autodb  
db.createCollection('car')  
db.createCollection('order')  
db.createCollection('PlaceOrder')  
db.createCollection('vehicle')  
  
db.car.insert(  
[  
 {  
 "car\_brand": "Audi",  
 "manufacturer": "Volkswagen Group",  
 "car\_models": [  
 {  
 "model\_name": "A4",  
 "co": 0.3,  
 "hc": 0.5,  
 "nox": 0.6,  
 "hc\_plus\_nox": 0.7,  
 "particulates": 0.2,  
 "stationary": 10,  
 "engineSpeed": 40,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "A6",  
 "co": 0.4,  
 "hc": 0.6,  
 "nox": 0.7,  
 "hc\_plus\_nox": 0.8,  
 "particulates": 0.3,  
 "stationary": 10,  
 "engineSpeed": 20,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "A8",  
 "co": 0.1,  
 "hc": 0.4,  
 "nox": 0.2,  
 "hc\_plus\_nox": 0.5,  
 "particulates": 0.3,  
 "stationary": 20,  
 "engineSpeed": 30,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 }  
 ]  
 },  
 {  
 "car\_brand": "BMW",  
 "manufacturer": "Bavarian Motor Works",  
 "car\_models": [  
 {  
 "model\_name": "X1",  
 "co": 0.2,  
 "hc": 0.3,  
 "nox": 0.5,  
 "hc\_plus\_nox": 0.6,  
 "particulates": 0.4,  
 "stationary": 12,  
 "engineSpeed": 32,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "X3",  
 "co": 0.3,  
 "hc": 0.4,  
 "nox": 0.2,  
 "hc\_plus\_nox": 0.6,  
 "particulates": 0.4,  
 "stationary": 15,  
 "engineSpeed": 20,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "Z4\_Roadster",  
 "co": 0.2,  
 "hc": 0.3,  
 "nox": 0.4,  
 "hc\_plus\_nox": 0.6,  
 "particulates": 0.4,  
 "stationary": 18,  
 "engineSpeed": 28,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 }  
 ]  
 },  
 {  
 "car\_brand": "Jaguar",  
 "manufacturer": "Tata Motors",  
 "car\_models": [  
 {  
 "model\_name": "XE",  
 "co": 0.5,  
 "hc": 0.4,  
 "nox": 0.7,  
 "hc\_plus\_nox": 0.2,  
 "particulates": 0.5,  
 "stationary": 11,  
 "engineSpeed": 26,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "XF",  
 "co": 0.3,  
 "hc": 0.2,  
 "nox": 0.2,  
 "hc\_plus\_nox": 0.5,  
 "particulates": 0.2,  
 "stationary": 19,  
 "engineSpeed": 24,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "E-PACE",  
 "co": 0.2,  
 "hc": 0.1,  
 "nox": 0.6,  
 "hc\_plus\_nox": 0.4,  
 "particulates": 0.5,  
 "stationary": 17,  
 "engineSpeed": 24,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 }  
 ]  
 },  
 {  
 "car\_brand": "Chevrolet",  
 "manufacturer": "General Motors Company",  
 "car\_models": [  
 {  
 "model\_name": "Impala",  
 "co": 0.3,  
 "hc": 0.2,  
 "nox": 0.5,  
 "hc\_plus\_nox": 0.3,  
 "particulates": 0.4,  
 "stationary": 14,  
 "engineSpeed": 23,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "Cruze",  
 "co": 0.4,  
 "hc": 0.2,  
 "nox": 0.3,  
 "hc\_plus\_nox": 0.5,  
 "particulates": 0.2,  
 "stationary": 21,  
 "engineSpeed": 26,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 },  
 {  
 "model\_name": "Malibu",  
 "co": 0.2,  
 "hc": 0.3,  
 "nox": 0.6,  
 "hc\_plus\_nox": 0.6,  
 "particulates": 0.3,  
 "stationary": 18,  
 "engineSpeed": 23,  
 "driveBy": 0,  
 "maxPermissibleTowableMassBraked": 0,  
 "maxPermissibleTowableMassUnbraked": 0  
 }  
 ]  
 }  
]  
  
)  
  
db.order.insert(  
[  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.Order",  
 "transactionId": null,  
 "orderId": "ORD166",  
 "orderStatus": "DELIVERED",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "wheelPlan": null,  
 "modelVersion": null,  
 "modelVariant": null,  
 "typeOfFuel": null,  
 "massInService": null,  
 "v5c": null,  
 "bodyType": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "engineSpeed": "40",  
 "stationary": "10",  
 "driveBy": "0"  
 },  
 "maxNetPower": null,  
 "engineNumber": null,  
 "co2": null,  
 "revenueWeight": null,  
 "numberOfSeats": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "modelType": "A4",  
 "vin": "VIN0090",  
 "make": "Audi",  
 "colour": "white",  
 "vehicleCategory": null,  
 "cylinderCapacity": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "nox": "0.6",  
 "hc\_plus\_nox": "0.7",  
 "particulates": "0.2",  
 "hc": "0.5",  
 "co": "0.3"  
 },  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "numberOfStandingPlaces": null,  
 "typeApprovalNumber": null,  
 "powerWeightRatio": null,  
 "maxPermissibleMass": null  
 },  
 "manufacturer": "Volkswagen Group",  
 "statusUpdates": [  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T09:59:57.708Z",  
 "transactionId": "279cc691-fbe0-462b-85a4-bc688ce42e86",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": null,  
 "orderStatus": "SCHEDULED\_FOR\_MANUFACTURE"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T10:00:18.198Z",  
 "transactionId": "e566e442-0e25-48c9-8cb1-a5e5744d5127",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": "VINA4001",  
 "orderStatus": "VIN\_ASSIGNED"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T10:04:05.102Z",  
 "transactionId": "36b25921-e8b1-4371-bd5e-eb517d88aace",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": null,  
 "orderStatus": "SCHEDULED\_FOR\_MANUFACTURE"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T10:05:45.576Z",  
 "transactionId": "766f4e1b-afae-4c4d-a04b-450952fcd37e",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": "VIN0090",  
 "orderStatus": "VIN\_ASSIGNED"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T10:04:58.219Z",  
 "transactionId": "032333ac-ef07-4392-bfb0-5f54f75fe971",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": "VIN0098",  
 "orderStatus": "VIN\_ASSIGNED"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T10:04:58.219Z",  
 "transactionId": "2458de2c-8f57-4018-9ca6-3c440c49acf8",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": "VIN0098",  
 "orderStatus": "OWNER\_ASSIGNED"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T10:04:58.219Z",  
 "transactionId": "d349f219-32ec-4602-aec1-6f4540fc0403",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": "VIN0098",  
 "orderStatus": "DELIVERED"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T12:45:26.282Z",  
 "transactionId": "8d4d90fe-f88f-4a22-98be-867482ae24b8",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": "VIN0090",  
 "orderStatus": "OWNER\_ASSIGNED"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T13:30:17.040Z",  
 "transactionId": "1f230a38-6974-47f6-9aca-0bd53bc1ca5d",  
 "v5c": null,  
 "numberPlate": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD166",  
 "vin": "VIN0090",  
 "orderStatus": "DELIVERED"  
 }  
 ],  
 "vinNumber": null,  
 "orderer": "Akshay"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.Order",  
 "orderId": "ORD140",  
 "vinNumber": null,  
 "statusUpdates": null,  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "vin": null,  
 "make": "Audi",  
 "colour": "black",  
 "modelType": "A4",  
 "v5c": null,  
 "typeOfFuel": null,  
 "maxNetPower": null,  
 "bodyType": null,  
 "modelVersion": null,  
 "taxationClass": null,  
 "engineNumber": null,  
 "massInService": null,  
 "wheelPlan": null,  
 "modelVariant": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "stationary": "10",  
 "driveBy": "0",  
 "engineSpeed": "40"  
 },  
 "co2": null,  
 "revenueWeight": null,  
 "numberPlate": null,  
 "numberOfSeats": null,  
 "powerWeightRatio": null,  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "maxPermissibleMass": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc": "0.5",  
 "co": "0.3",  
 "hc\_plus\_nox": "0.7",  
 "particulates": "0.2",  
 "nox": "0.6"  
 },  
 "numberOfStandingPlaces": null,  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null  
 },  
 "orderStatus": "PLACED",  
 "orderer": "Akshay",  
 "transactionId": null,  
 "manufacturer": "Volkswagen Group"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.Order",  
 "statusUpdates": [  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T17:59:14.102Z",  
 "v5c": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD116",  
 "numberPlate": null,  
 "vin": null,  
 "orderStatus": "SCHEDULED\_FOR\_MANUFACTURE",  
 "transactionId": "2e1064b4-055f-4cf6-a519-2daf4924c8df"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T17:59:45.282Z",  
 "v5c": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD116",  
 "numberPlate": null,  
 "vin": "VINA400987",  
 "orderStatus": "VIN\_ASSIGNED",  
 "transactionId": "9b52436d-4774-48a8-8c85-23851596c415"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T18:00:14.454Z",  
 "v5c": null,  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD116",  
 "numberPlate": null,  
 "vin": "VINA400987",  
 "orderStatus": "OWNER\_ASSIGNED",  
 "transactionId": "15d5b069-6817-41c9-9101-432cb793da59"  
 }  
 ],  
 "vinNumber": null,  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "v5c": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "engineSpeed": "40",  
 "stationary": "10",  
 "driveBy": "0"  
 },  
 "co2": null,  
 "numberOfSeats": null,  
 "bodyType": null,  
 "modelVersion": null,  
 "typeOfFuel": null,  
 "massInService": null,  
 "modelVariant": null,  
 "maxNetPower": null,  
 "revenueWeight": null,  
 "taxationClass": null,  
 "engineNumber": null,  
 "wheelPlan": null,  
 "numberPlate": null,  
 "vin": "VINA400987",  
 "colour": "white",  
 "make": "Audi",  
 "modelType": "A4",  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "numberOfStandingPlaces": null,  
 "powerWeightRatio": null,  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "cylinderCapacity": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.7",  
 "particulates": "0.2",  
 "nox": "0.6",  
 "hc": "0.5",  
 "co": "0.3"  
 },  
 "maxPermissibleMass": null  
 },  
 "orderId": "ORD116",  
 "orderStatus": "OWNER\_ASSIGNED",  
 "orderer": "Akshay",  
 "manufacturer": "Volkswagen Group",  
 "transactionId": null  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.Order",  
 "orderId": "ORD188",  
 "orderStatus": "OWNER\_ASSIGNED",  
 "orderer": "Akshay",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "colour": "black",  
 "modelType": "A8",  
 "make": "Audi",  
 "vin": "VINA8BLK001",  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.5",  
 "particulates": "0.3",  
 "nox": "0.2",  
 "hc": "0.4",  
 "co": "0.1"  
 },  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "20",  
 "engineSpeed": "30"  
 },  
 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "statusUpdates": [  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T18:01:39.595Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD188",  
 "orderStatus": "SCHEDULED\_FOR\_MANUFACTURE",  
 "vin": null,  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "36dbb30b-55eb-46d2-98ba-201e6ac6f1d3"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-10-31T18:02:07.780Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD188",  
 "orderStatus": "VIN\_ASSIGNED",  
 "vin": "VINA8BLK001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "8b1e5c7e-dc26-4466-8643-e7b1d381ddb7"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T06:51:40.184Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD188",  
 "orderStatus": "OWNER\_ASSIGNED",  
 "vin": "VINA8BLK001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "ae9f48d5-c1ae-4152-bfe3-0a911c85a271"  
 }  
 ],  
 "vinNumber": null,  
 "manufacturer": "Volkswagen Group",  
 "transactionId": null  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.Order",  
 "orderId": "ORD107",  
 "orderStatus": "DELIVERED",  
 "orderer": "Akshay",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "colour": "red",  
 "modelType": "A6",  
 "make": "Audi",  
 "vin": "VINA6RED001",  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.8",  
 "particulates": "0.3",  
 "nox": "0.7",  
 "hc": "0.6",  
 "co": "0.4"  
 },  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "10",  
 "engineSpeed": "20"  
 },  
 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "statusUpdates": [  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T05:36:01.392Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD107",  
 "orderStatus": "SCHEDULED\_FOR\_MANUFACTURE",  
 "vin": null,  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "613e87bb-5f5e-41dc-9c72-7a95b406ea63"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T05:36:26.250Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD107",  
 "orderStatus": "VIN\_ASSIGNED",  
 "vin": "VINA6RED001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "4adbc81d-631c-4b68-9da4-16cbbfdbec0f"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T06:40:12.822Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD107",  
 "orderStatus": "OWNER\_ASSIGNED",  
 "vin": "VINA6RED001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "de2fd3cf-b7f1-4010-ae25-6f2d2b37997f"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T06:49:40.265Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD107",  
 "orderStatus": "DELIVERED",  
 "vin": "VINA6RED001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "19b70176-3681-49d8-a9d1-a9c2a42c397b"  
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 "vinNumber": null,  
 "manufacturer": "Volkswagen Group",  
 "transactionId": null  
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 "orderId": "ORD6",  
 "orderStatus": "DELIVERED",  
 "orderer": "ganesh",  
 "vehicleDetails": {  
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 "colour": "white",  
 "modelType": "A8",  
 "make": "Audi",  
 "vin": "VINA8WHITE001",  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
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 "hc\_plus\_nox": "0.5",  
 "particulates": "0.3",  
 "nox": "0.2",  
 "hc": "0.4",  
 "co": "0.1"  
 },  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
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 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "20",  
 "engineSpeed": "30"  
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 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
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 "statusUpdates": [  
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 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
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 "vin": null,  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "145d4621-e94c-4f22-8f71-742b47fe4a3f"  
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 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD6",  
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 "vin": "VINA8WHITE001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "dd16245b-92cf-44ab-8e94-7a098180c597"  
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 "orderStatus": "OWNER\_ASSIGNED",  
 "vin": "VINA8WHITE001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "aed838e3-4288-46e9-a6b0-cbe2edf262ab"  
 },  
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 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
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 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD6",  
 "orderStatus": "DELIVERED",  
 "vin": "VINA8WHITE001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "af5155e3-e49e-48db-a494-639f85f41992"  
 }  
 ],  
 "vinNumber": null,  
 "manufacturer": "Volkswagen Group",  
 "transactionId": null  
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 "orderId": "ORD34",  
 "orderStatus": "PLACED",  
 "orderer": "ganesh",  
 "vehicleDetails": {  
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 "modelType": "E-PACE",  
 "make": "Jaguar",  
 "vin": null,  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
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 "particulates": "0.5",  
 "nox": "0.6",  
 "hc": "0.1",  
 "co": "0.2"  
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 "id": null,  
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 "maxPermissibleTowableMassBraked": "0"  
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 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "17",  
 "engineSpeed": "24"  
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 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "statusUpdates": null,  
 "vinNumber": null,  
 "manufacturer": "Tata Motors",  
 "transactionId": null  
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]  
)  
  
  
db.PlaceOrder.insert(  
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 "transactionId": "173f63fa-02ac-483e-91f1-584803392eb1",  
 "orderer": "Akshay",  
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 "className": "org.vda.ExhaustEmissions",  
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 "hc": "0.5",  
 "hc\_plus\_nox": "0.7",  
 "co": "0.3",  
 "nox": "0.6"  
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 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
 "typeOfFuel": null,  
 "numberOfSeats": null,  
 "numberPlate": null,  
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 "vin": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "modelVariant": null,  
 "v5c": null,  
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 "id": null,  
 "className": "org.vda.SoundDetails",  
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 "driveBy": "0",  
 "stationary": "10"  
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 "co2": null,  
 "taxationClass": null,  
 "modelType": "A4",  
 "make": "Audi",  
 "colour": "white"  
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 "orderId": "ORD140",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "vin": null,  
 "make": "Audi",  
 "colour": "black",  
 "modelType": "A4",  
 "v5c": null,  
 "typeOfFuel": null,  
 "maxNetPower": null,  
 "bodyType": null,  
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 "taxationClass": null,  
 "engineNumber": null,  
 "massInService": null,  
 "wheelPlan": null,  
 "modelVariant": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "stationary": "10",  
 "driveBy": "0",  
 "engineSpeed": "40"  
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 "co2": null,  
 "revenueWeight": null,  
 "numberPlate": null,  
 "numberOfSeats": null,  
 "powerWeightRatio": null,  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "maxPermissibleMass": null,  
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 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc": "0.5",  
 "co": "0.3",  
 "hc\_plus\_nox": "0.7",  
 "particulates": "0.2",  
 "nox": "0.6"  
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 "numberOfStandingPlaces": null,  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null  
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 "orderer": "Akshay",  
 "transactionId": "cd939ca9-a15c-4a81-b383-59e6342148cf",  
 "manufacturer": "Volkswagen Group"  
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 "timestamp": "2017-10-01T17:57:38.758Z",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "v5c": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "engineSpeed": "40",  
 "stationary": "10",  
 "driveBy": "0"  
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 "co2": null,  
 "numberOfSeats": null,  
 "bodyType": null,  
 "modelVersion": null,  
 "typeOfFuel": null,  
 "massInService": null,  
 "modelVariant": null,  
 "maxNetPower": null,  
 "revenueWeight": null,  
 "taxationClass": null,  
 "engineNumber": null,  
 "wheelPlan": null,  
 "numberPlate": null,  
 "vin": null,  
 "colour": "white",  
 "make": "Audi",  
 "modelType": "A4",  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "numberOfStandingPlaces": null,  
 "powerWeightRatio": null,  
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 "id": null,  
 "className": "org.vda.TrailerDetails",  
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 "maxPermissibleTowableMassBraked": "0"  
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 "particulates": "0.2",  
 "nox": "0.6",  
 "hc": "0.5",  
 "co": "0.3"  
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 "maufacturer": "Ferrai",  
 "transactionId": "31e23c50-53b9-482a-8755-dc3abfe3106a"  
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 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "v5c": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "engineSpeed": "30",  
 "stationary": "20",  
 "driveBy": "0"  
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 "co2": null,  
 "numberOfSeats": null,  
 "bodyType": null,  
 "modelVersion": null,  
 "typeOfFuel": null,  
 "massInService": null,  
 "modelVariant": null,  
 "maxNetPower": null,  
 "revenueWeight": null,  
 "taxationClass": null,  
 "engineNumber": null,  
 "wheelPlan": null,  
 "numberPlate": null,  
 "vin": null,  
 "colour": "black",  
 "make": "Audi",  
 "modelType": "A8",  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "numberOfStandingPlaces": null,  
 "powerWeightRatio": null,  
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 "className": "org.vda.TrailerDetails",  
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 "maxPermissibleTowableMassBraked": "0"  
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 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.5",  
 "particulates": "0.3",  
 "nox": "0.2",  
 "hc": "0.4",  
 "co": "0.1"  
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 "maxPermissibleMass": null  
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 "orderId": "ORD188",  
 "orderer": "Akshay",  
 "manufacturer": "Volkswagen Group",  
 "transactionId": "8ce0f898-34d2-4029-a2ad-aec0fd87e9b6"  
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 {  
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 "timestamp": "2017-10-01T05:35:46.222Z",  
 "orderId": "ORD107",  
 "orderer": "Akshay",  
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 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "colour": "red",  
 "modelType": "A6",  
 "make": "Audi",  
 "vin": null,  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
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 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.8",  
 "particulates": "0.3",  
 "nox": "0.7",  
 "hc": "0.6",  
 "co": "0.4"  
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 "id": null,  
 "className": "org.vda.TrailerDetails",  
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 "maxPermissibleTowableMassBraked": "0"  
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 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "10",  
 "engineSpeed": "20"  
 },  
 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "manufacturer": "Volkswagen Group",  
 "transactionId": "2fe290d7-af2a-4c3c-88d3-ec0c181aafba"  
 },  
 {  
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 "timestamp": "2017-10-01T06:52:09.215Z",  
 "orderId": "ORD6",  
 "orderer": "ganesh",  
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 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "colour": "white",  
 "modelType": "A8",  
 "make": "Audi",  
 "vin": null,  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.5",  
 "particulates": "0.3",  
 "nox": "0.2",  
 "hc": "0.4",  
 "co": "0.1"  
 },  
 "trailerDetails": {  
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 "className": "org.vda.TrailerDetails",  
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 "maxPermissibleTowableMassBraked": "0"  
 },  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "20",  
 "engineSpeed": "30"  
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 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "manufacturer": "Volkswagen Group",  
 "transactionId": "b33102f9-f0d1-4cea-b1bd-cfbb7567dc0c"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.PlaceOrder",  
 "timestamp": "2017-10-01T08:47:56.501Z",  
 "orderId": "ORD34",  
 "orderer": "ganesh",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "colour": "black",  
 "modelType": "E-PACE",  
 "make": "Jaguar",  
 "vin": null,  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.4",  
 "particulates": "0.5",  
 "nox": "0.6",  
 "hc": "0.1",  
 "co": "0.2"  
 },  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "17",  
 "engineSpeed": "24"  
 },  
 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "manufacturer": "Tata Motors",  
 "transactionId": "97df6965-bf4f-4863-99b0-6f93b201009c"  
 }  
])  
  
  
db.vehicle.insert(  
[  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.Order",  
 "orderId": "ORD107",  
 "orderStatus": "VIN\_ASSIGNED",  
 "orderer": "Akshay",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "colour": "red",  
 "modelType": "A6",  
 "make": "Audi",  
 "vin": "VINA6RED001",  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.8",  
 "particulates": "0.3",  
 "nox": "0.7",  
 "hc": "0.6",  
 "co": "0.4"  
 },  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "10",  
 "engineSpeed": "20"  
 },  
 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "statusUpdates": [  
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 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T05:36:01.392Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD107",  
 "orderStatus": "SCHEDULED\_FOR\_MANUFACTURE",  
 "vin": null,  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "613e87bb-5f5e-41dc-9c72-7a95b406ea63"  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T05:36:26.250Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD107",  
 "orderStatus": "VIN\_ASSIGNED",  
 "vin": "VINA6RED001",  
 "v5c": null,  
 "numberPlate": null,  
 "transactionId": "4adbc81d-631c-4b68-9da4-16cbbfdbec0f"  
 }  
 ],  
 "vinNumber": null,  
 "manufacturer": "Volkswagen Group",  
 "transactionId": null  
 },  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.Order",  
 "orderId": "ORD6",  
 "orderStatus": "DELIVERED",  
 "orderer": "ganesh",  
 "vehicleDetails": {  
 "id": null,  
 "className": "org.vda.VehicleDetails",  
 "colour": "white",  
 "modelType": "A8",  
 "make": "Audi",  
 "vin": "VINA8WHITE001",  
 "powerWeightRatio": null,  
 "numberOfStandingPlaces": null,  
 "exhaustEmissions": {  
 "id": null,  
 "className": "org.vda.ExhaustEmissions",  
 "hc\_plus\_nox": "0.5",  
 "particulates": "0.3",  
 "nox": "0.2",  
 "hc": "0.4",  
 "co": "0.1"  
 },  
 "trailerDetails": {  
 "id": null,  
 "className": "org.vda.TrailerDetails",  
 "maxPermissibleTowableMassUnbraked": "0",  
 "maxPermissibleTowableMassBraked": "0"  
 },  
 "cylinderCapacity": null,  
 "typeApprovalNumber": null,  
 "vehicleCategory": null,  
 "maxPermissibleMass": null,  
 "numberOfSeats": null,  
 "massInService": null,  
 "modelVersion": null,  
 "bodyType": null,  
 "v5c": null,  
 "typeOfFuel": null,  
 "co2": null,  
 "soundDetails": {  
 "id": null,  
 "className": "org.vda.SoundDetails",  
 "driveBy": "0",  
 "stationary": "20",  
 "engineSpeed": "30"  
 },  
 "modelVariant": null,  
 "numberPlate": null,  
 "taxationClass": null,  
 "revenueWeight": null,  
 "wheelPlan": null,  
 "maxNetPower": null,  
 "engineNumber": null  
 },  
 "statusUpdates": [  
 {  
 "className": "org.acme.vehicle.lifecycle.manufacturer.UpdateOrderStatus",  
 "timestamp": "2017-11-01T06:52:24.999Z",  
 "order": "resource:org.acme.vehicle.lifecycle.manufacturer.Order#ORD6",  
 "orderStatus": "SCHEDULED\_FOR\_MANUFACTURE",  
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db.order.find()  
db.car.find()  
db.PlaceOrder.find()  
db.vehicle.find()