

PROGRAMAÇÃO
ORIENTADA A
OBJETOS

POO

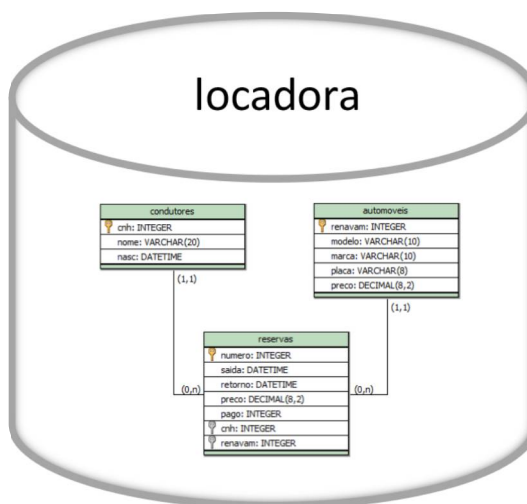
POO e BD



POO e BD

Planejamento – Modelagem de Banco de Dados

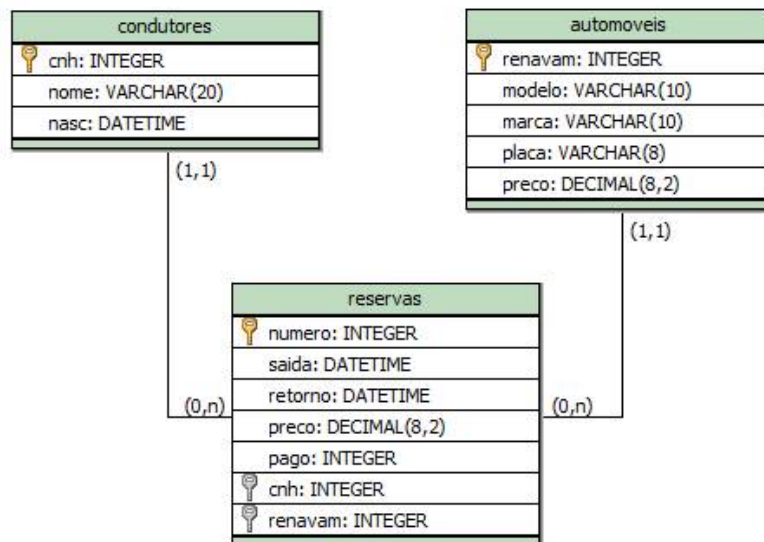
Banco de Dados - locadora



POO e BD

Planejamento – Modelagem de Banco de Dados

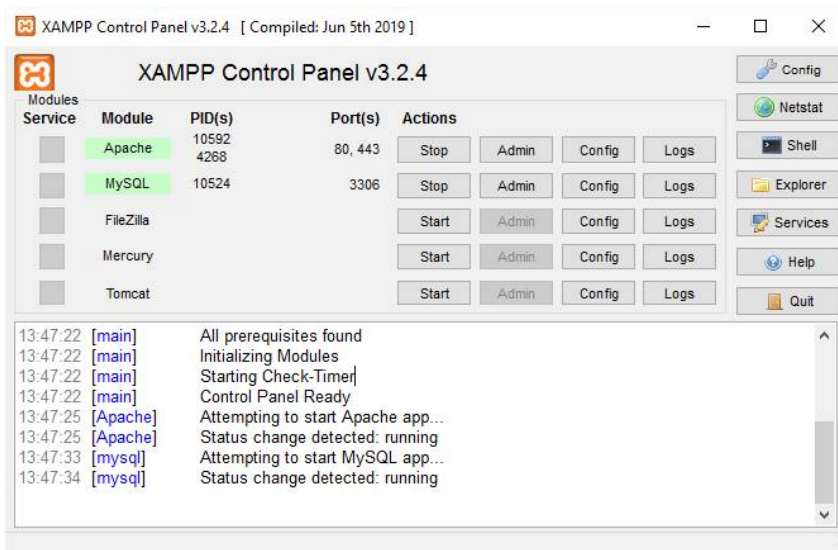
Banco de Dados - locadora



POO e BD

Planejamento – Modelagem de Banco de Dados

Banco de Dados - locadora




POO e BD

Planejamento – Modelagem de Banco de Dados

Banco de Dados – locadora



```
create table condutores (  
  cnh int primary key,  
  nome varchar(20),  
  nasc datetime  
);
```

condutores	
	cnh: INTEGER
	nome: VARCHAR(20)
	nasc: DATETIME

```
-- datas no formato AAAA/MM/DD  
insert into condutores values(12345, 'Luis Alves', '1985/10/30');  
insert into condutores values(23456, 'Maria Sanches', '1999/05/25');  
insert into condutores values(34567, 'Angela Cardoso', '1990/03/12');  
  
select * from condutores;
```

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Planejamento – Modelagem de Banco de Dados

Banco de Dados - locadora



```
create table automoveis (  
renavam int primary key,  
marca varchar(10),  
modelo varchar(10),  
placa varchar(8),  
preco numeric(8,2)  
);
```

automoveis	
	renavam: INTEGER
	modelo: VARCHAR(10)
	marca: VARCHAR(10)
	placa: VARCHAR(8)
	preco: DECIMAL(8,2)

```
insert into automoveis values(55555, 'GM', 'Onix', 'ABC-1234',50.00);  
insert into automoveis values(66666, 'Ford', 'Ka', 'XYZ-5678',35.00);  
insert into automoveis values(77777, 'Fiat', 'Pálio', 'JKL-3456',45.00);  
  
select * from automoveis;
```

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Planejamento – Modelagem de Banco de Dados

Banco de Dados - locadora



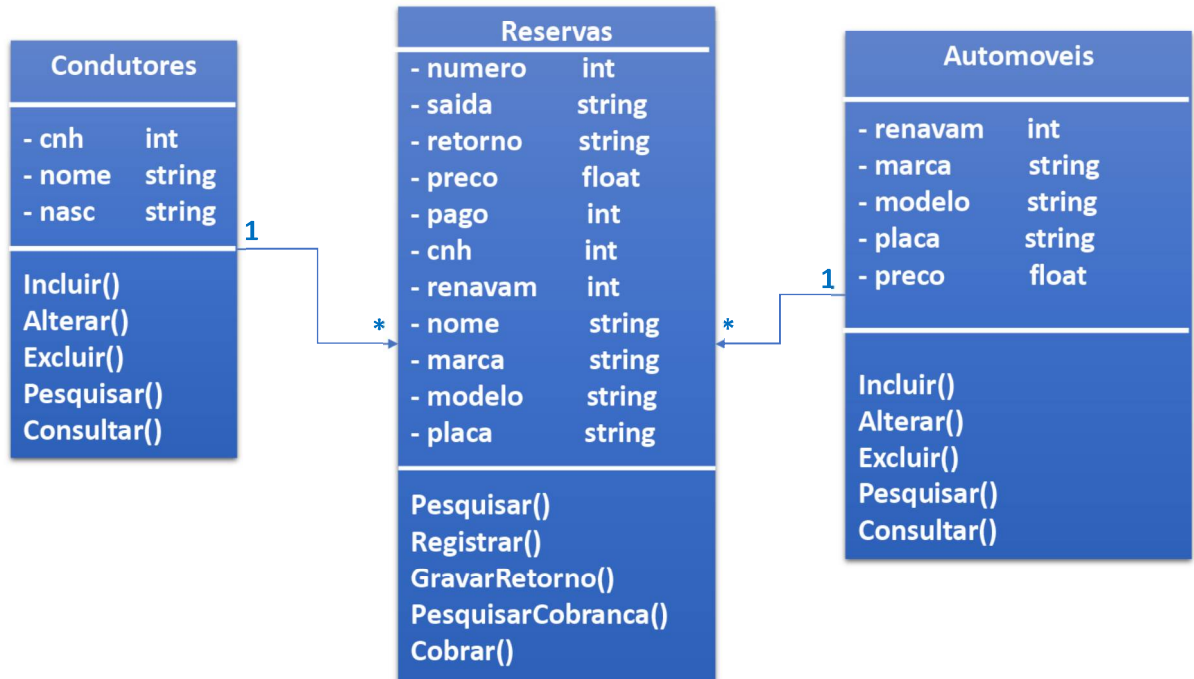
```
create table reservas (  
  numero int primary key,  
  saida datetime,  
  retorno datetime,  
  preco decimal(8,2),  
  pago tinyint,  
  cnh int,  
  renavam int,  
  foreign key(cnh) references condutores(cnh),  
  foreign key(renavam) references automoveis(renavam)  
);
```

-- datas no formato AAAA/MM/DD

```
insert into reservas values(25000, '2020/01/20', null, 45.00, 0, 23456, 77777);
```

```
select * from reservas;
```

reservas	
	numero: INTEGER
	saida: DATETIME
	retorno: DATETIME
	preco: DECIMAL(8,2)
	pago: INTEGER
	cnh: INTEGER
	renavam: INTEGER



Programação Orientada a Objetos

POO e BD – Download Conector MySQL

<https://dev.mysql.com/downloads/connector/j/5.1.html>

MySQL :: Download Connector/J

dev.mysql.com/downloads/connector/j/5.1.html

MySQL Community Downloads

Connector/J

General Availability (GA) Releases Archives

Connector/J 5.1.48

Select Operating System:
Platform Independent

Looking for the latest GA version?

Recommended Windows Download:

MySQL Installer for Windows

All MySQL Products. For All Windows Platforms. In One Package.

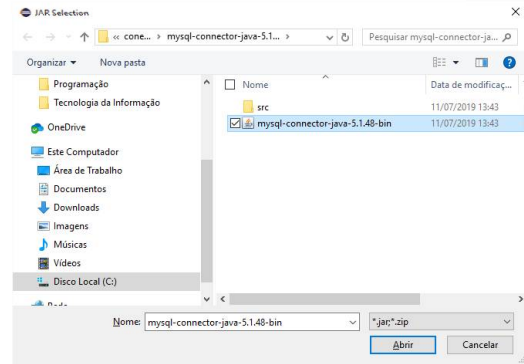
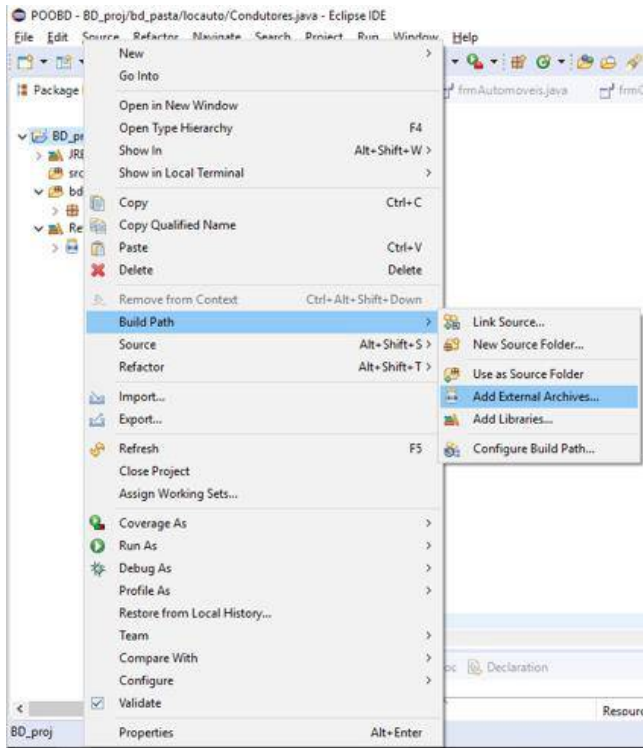
Starting with MySQL 5.8 the MySQL Installer package replaces the standalone MS packages.

Windows (x86, 32 & 64-bit), MySQL Installer MSI [Go to Download Page >](#)

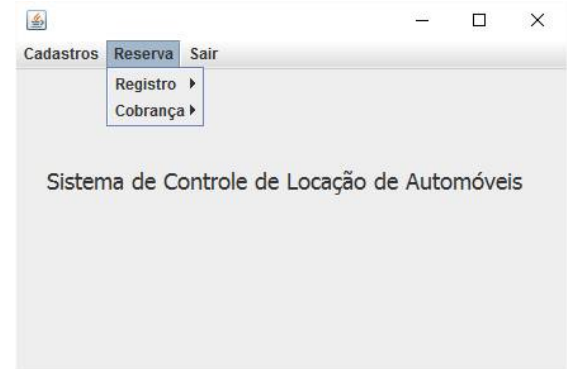
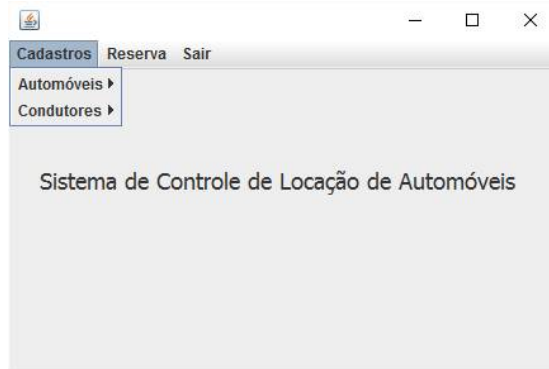
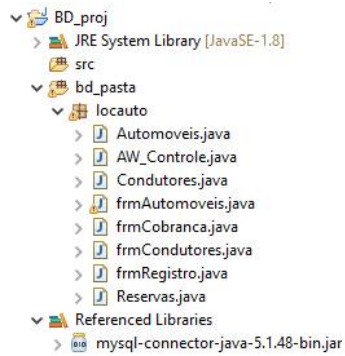
Platform Independent (Architecture Independent), Compressed TAR Archive (mysql-connector-java-5.1.48.tar.gz)	5.1.48	4.2M	Download
MD5: 8e6e0e4e6d18d3474622bed892513f65 Signature			
Platform Independent (Architecture Independent), ZIP Archive (mysql-connector-java-5.1.48.zip)	5.1.48	4.6M	Download
MD5: 5da24fac8996a4f296ecdc02ab0d2384 Signature			

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

POO e BD – Conector MySql

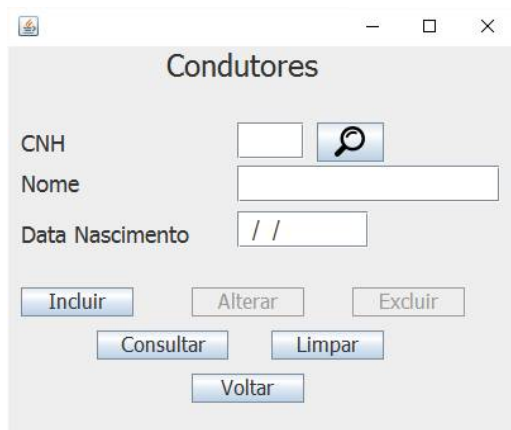


AW_Control




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frmCondutores

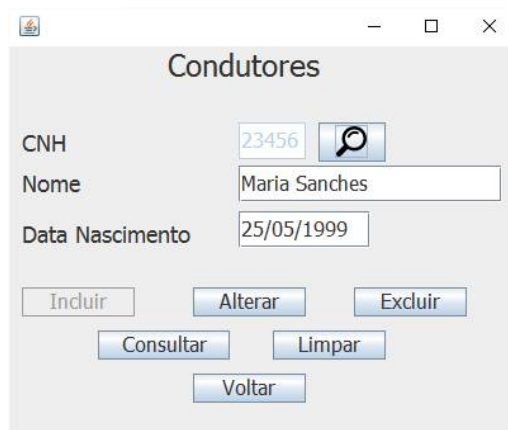


Condutores


CNH 

Nome

Data Nascimento



Condutores

CNH 

Nome

Data Nascimento

POO e BD

frmAutomoveis



Automóveis

Renavam 

Marca

Modelo

Placa

Preço



Automóveis

Renavam 

Marca

Modelo

Placa

Preço

POO e BD

frmRegistro



The screenshot shows a Windows-style window titled "Reservas". It contains five input fields: "Número" (empty), "Saída" (containing "//"), "Retorno" (containing "//"), "Condutor" (a dropdown menu showing "12345"), and "Automóvel" (a dropdown menu showing "55555"). To the right of the "Número" field is a magnifying glass icon. At the bottom, there are four buttons: "Registro", "Retorno", "Limpar", and "Voltar".



The screenshot shows the same "Reservas" window, but with data entered into the fields: "Número" is "30000", "Saída" is "01/04/2020", "Retorno" is "05/04/2020", "Condutor" dropdown shows "23456", and "Automóvel" dropdown shows "66666". The "Retorno" button is now highlighted in blue, while "Registro", "Limpar", and "Voltar" are disabled (grayed out).

frmCobranca

POO e BD

Cobrança

Número da Reserva: 25000  ☐ Reserva Paga

Condutor	<input type="text"/>	Data Vencimento	<input type="text"/>
Veículo	<input type="text"/>		
Data Saída	<input type="text"/>	Data Retorno	<input type="text"/>
Valor Diária	<input type="text"/>	Total Dias	<input type="text"/>
		Total a Pagar	<input type="text"/>

Cobrança

Número da Reserva: 30000  ☐ Reserva Paga

Condutor	Maria Sanches	Data Vencimento	<input type="text"/>
Veículo	Ford Ka XYZ-5678		10/04/2020
Data Saída	01/04/2020	Data Retorno	05/04/2020
Valor Diária	35,00	Total Dias	4
		Total a Pagar	140,00

Cobrança

Número da Reserva: 25000  ☒ Reserva Paga

Condutor	Maria Sanches	Data Vencimento	<input type="text"/>
Veículo	Fiat Pálio JKL-3456		28/04/2020
Data Saída	20/01/2020	Data Retorno	23/01/2020
Valor Diária	45,00	Total Dias	3
		Total a Pagar	135,00

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