

/\*\*\*Command 1\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

```
select snum, sname from suppliers
where not exists( select * from parts
where not exists( select * from shipments
where shipments.snum = suppliers.snum and
shipments.pnum = parts.pnum));
```

ExecuteClear

All execution results will appear below this line.

#### Database Results

snum	sname
56	Nicola Gianniberti

/\*\*\*Command 2A\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

```
select * from suppliers;
```

ExecuteClear

All execution results will appear below this line.

#### Database Results

snum	sname	status	city
S1	Michael Schumacher	1	Berlin
S10	David Coulthard	2	London

S11	Bernard Hinault	7	Paris
S12	Eddy Merckx	1	Brussels
S13	Candice Swanepoel	3	Cape Town
S14	Adriana Lima	4	Sao Paulo
S15	Jennifer Lawrence	6	Owensboro
S16	Fernando Alonso	4	Madrid
S17	Rubens Barichello	3	Sao Paulo
S18	Tom Boonen	2	Brussels
S19	Johan Messeuw	1	Eekloo
S2	Juan Pablo Montoya	4	Interlagos
S20	Danilo Rossi	2	Milan
S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thureau	1	Berlin
S32	Bernd Schnieder	2	Berlin

S20	Danilo Rossi	2	Milan
S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thureau	1	Berlin
S32	Bernd Schnieder	2	Berlin
S33	Rolf Aldag	3	Berlin
S4	Mark Webber	5	Melbourne
S44	Beryl Burton	4	London
S5	Jenson Button	4	London
S56	Marianne Vos	8	Zandvoort
S6	Nicola Gianniberti	2	Milan
S7	Christian Albers	3	Orlando
S8	Giancarlo Fisichella	3	Milan
S9	Kimi Rikonnen	2	Helsinki

/\*\*\*Command 2B\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

insert into shipments  
values ('S5', 'P6', 'J7', 400);

ExecuteClear

All execution results will appear below this line.

#### Database Results

The statement executed succesfully.  
1 row(s) affected  
28 < 29  
Business Logic Detected! - Updating Supplier Status  
Business Logic Updated 1 Supplier(s) status marks

/\*\*\*Command 2C\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

select \* from suppliers;

ExecuteClear

All execution results will appear below this line.

#### Database Results

snum	sname	status	city
S1	Michael Schumacher	1	Berlin
S10	David Coulthard	2	London

Database Results			
snum	sname	status	city
S1	Michael Schumacher	1	Berlin
S10	David Coulthard	2	London
S11	Bernard Hinault	7	Paris
S12	Eddy Merckx	1	Brussels
S13	Candice Swanepoel	3	Cape Town
S14	Adriana Lima	4	Sao Paulo
S15	Jennifer Lawrence	6	Owensboro
S16	Fernando Alonso	4	Madrid
S17	Rubens Barichello	3	Sao Paulo
S18	Tom Boonen	2	Brussels
S19	Johan Messeuw	1	Eekloo
S2	Juan Pablo Montoya	4	Interlagos

S2	Juan Pablo Montoya	4	Interlagos
S20	Danilo Rossi	2	Milan
S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thurau	1	Berlin
S32	Bernd Schnieder	2	Berlin
S33	Rolf Aldag	3	Berlin
S4	Mark Webber	5	Melbourne
S44	Beryl Burton	4	London
S5	Jenson Button	9	London
S56	Marianne Vos	8	Zandvoort
S6	Nicola Gianniberti	2	Milan
S7	Christian Albers	3	Orlando
S8	Giancarlo Fisichella	3	Milan
S9	Kimi Rikonnen	2	Helsinki

/\*\*\*Command 3A\*\*\*/

Welcome to the Summer 2021 Project 3 Enterprise Database System

A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

insert into suppliers values ('S39','Candice Swanepoel',10,'Cardiff')

ExecuteClear

All execution results will appear below this line.

Database Results

The statement executed successfully.  
1 row(s) affected  
29 < 29

/\*\*\*Command 3B\*\*\*/

Welcome to the Summer 2021 Project 3 Enterprise Database System

A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

select \* from suppliers;

ExecuteClear

All execution results will appear below this line.

Database Results

snum	sname	status	city
S1	Michael Schumacher	1	Berlin
S10	David Coulthard	2	London

S11	Bernard Hinault	7	Paris
S12	Eddy Merckx	1	Brussels
S13	Candice Swanepoel	3	Cape Town
S14	Adriana Lima	4	Sao Paulo
S15	Jennifer Lawrence	6	Owensboro
S16	Fernando Alonso	4	Madrid
S17	Rubens Barichello	3	Sao Paulo
S18	Tom Boonen	2	Brussels
S19	Johan Messeuw	1	Eekloo
S2	Juan Pablo Montoya	4	Interlagos
S20	Daniilo Rossi	2	Milan
S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thurau	1	Berlin
S32	Bernd Schnieder	2	Berlin

S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thurau	1	Berlin
S32	Bernd Schnieder	2	Berlin
S33	Rolf Aldag	3	Berlin
S39	Candice Swanepoel	10	Cardiff
S4	Mark Webber	5	Melbourne
S44	Beryl Burton	4	London
S5	Jenson Button	9	London
S56	Marianne Vos	8	Zandvoort
S6	Nicola Gianniberti	2	Milan
S7	Christian Albers	3	Orlando
S8	Giancarlo Fisichella	3	Milan
S9	Kimi Rikonnen	2	Helsinki

/\*\*Command 3C\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

insert into shipments  
values ('S39','P3','J1', 20);

Execute

Clear

All execution results will appear below this line.

Database Results

The statement executed successfully.  
1 row(s) affected  
29 < 29

/\*\*Command 3D\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

select \* from suppliers;

Execute

Clear

All execution results will appear below this line.

Database Results

snum	sname	status	city
S1	Michael Schumacher	1	Berlin
S10	David Coulthard	2	London

Database Results			
snum	sname	status	city
S1	Michael Schumacher	1	Berlin
S10	David Coulthard	2	London
S11	Bernard Hinault	7	Paris
S12	Eddy Merckx	1	Brussels
S13	Candice Swanepoel	3	Cape Town
S14	Adriana Lima	4	Sao Paulo
S15	Jennifer Lawrence	6	Owensboro
S16	Fernando Alonso	4	Madrid
S17	Rubens Barichello	3	Sao Paulo
S18	Tom Boonen	2	Brussels
S19	Johan Messeuw	1	Eekloo
S2	Juan Pablo Montoya	4	Interlagos

S20	Daniilo Rossi	2	Milan
S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thurau	1	Berlin
S32	Bernd Schnieder	2	Berlin
S33	Rolf Aldag	3	Berlin
S39	Candice Swanepoel	10	Cardiff
S4	Mark Webber	5	Melbourne
S44	Beryl Burton	4	London
S5	Jenson Button	9	London
S56	Marianne Vos	8	Zandvoort
S6	Nicola Gianniberti	2	Milan
S7	Christian Albers	3	Orlando
S8	Giancarlo Fisichella	3	Milan
S9	Kimi Rikonnen	2	Helsinki



/\*\*\*Command 4\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

```
select distinct suppliers.snum, suppliers.sname,  
shipments.pnum from suppliers natural  
join shipments  
where shipments.pnum in (select pnum from parts  
where not exists ( select * from jobs  
where not exists ( select * from shipments  
where shipments.snum = suppliers.snum  
and shipments.pnum = parts.pnum
```

Execute Clear

All execution results will appear below this line.

### Database Results

snum	sname	pnum
S1	Michael Schumacher	P8

/\*\*\*Command 5A\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

```
select * from suppliers;
```

Execute Clear

All execution results will appear below this line.

### Database Results

snum	sname	status	city
S1	Michael Schumacher	1	Berlin
S10	David Coulthard	2	London

S1	P19	J13	200
S1	P22	J5	40
S1	P3	J13	95
S1	P8	J1	80
S1	P8	J13	200
S1	P8	J2	100
S1	P8	J22	340
S1	P8	J3	200
S1	P8	J4	100
S1	P8	J5	225
S1	P8	J6	230
S12	P3	J22	750
S17	P3	J2	800
S2	P3	J1	40
S3	P3	J3	15

S2	P3	J22	50
S2	P3	J3	20
S2	P3	J4	50
S2	P3	J5	91
S2	P4	J1	50
S21	P2	J4	200
S22	P1	J3	120
S3	P10	J4	200
S3	P24	J2	200
S3	P3	J1	99
S3	P3	J6	75
S3	P4	J6	80
S3	P5	J6	120
S3	P9	J1	110
S39	P3	J1	20

S39	P3	J1	20
S4	P6	J2	50
S44	P44	J2	100
S44	P48	J5	40
S5	P6	J7	400
S6	P1	J2	40
S6	P10	J3	100
S6	P11	J2	40
S6	P12	J4	75
S6	P13	J5	100
S6	P19	J5	50
S6	P2	J2	60
S6	P24	J2	20
S6	P3	J4	500
S6	P33	J4	40

S6	P10	J3	100
S6	P11	J2	40
S6	P12	J4	75
S6	P13	J5	100
S6	P19	J5	50
S6	P2	J2	60
S6	P24	J2	20
S6	P3	J4	500
S6	P33	J4	40
S6	P4	J2	120
S6	P44	J4	20
S6	P48	J2	100
S6	P5	J22	200
S6	P53	J1	25
S6	P6	J22	120

S6	P3	J4	500
S6	P33	J4	40
S6	P4	J2	120
S6	P44	J4	20
S6	P48	J2	100
S6	P5	J22	200
S6	P53	J1	25
S6	P6	J22	120
S6	P7	J1	300
S6	P8	J3	110
S6	P9	J4	180
S7	P1	J2	40
S7	P12	J2	40
S7	P6	J2	40

/\*\*\*Command 5B\*\*\*/

Welcome to the Summer 2021 Project 3 Enterprise Database System

A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

update shipments  
set quantity = quantity + 10  
where pnum = 'P3';

Execute

Clear

All execution results will appear below this line.

Database Results

The statement executed successfully.  
13 row(s) affected  
29 < 32  
Business Logic Detected! - Updating Supplier Status  
Business Logic Updated 7 Supplier(s) status marks



S2	P3	J2	25
S2	P3	J22	60
S2	P3	J3	30
S2	P3	J4	60
S2	P3	J5	101
S2	P4	J1	50
S21	P2	J4	200
S22	P1	J3	120
S3	P10	J4	200
S3	P24	J2	200
S3	P3	J1	109
S3	P3	J6	85
S3	P4	J6	80
S3	P5	J6	120
S3	P9	J1	110

S3	P9	J1	110
S39	P3	J1	30
S4	P6	J2	50
S44	P44	J2	100
S44	P48	J5	40
S5	P6	J7	400
S6	P1	J2	40
S6	P10	J3	100
S6	P11	J2	40
S6	P12	J4	75
S6	P13	J5	100
S6	P19	J5	50
S6	P2	J2	60
S6	P24	J2	20
S6	P3	J4	510

S6	P12	J4	75
S6	P13	J5	100
S6	P19	J5	50
S6	P2	J2	60
S6	P24	J2	20
S6	P3	J4	510
S6	P33	J4	40
S6	P4	J2	120
S6	P44	J4	20
S6	P48	J2	100
S6	P5	J22	200
S6	P53	J1	25
S6	P6	J22	120
S6	P7	J1	300
S6	P8	J3	110

S6	P3	J4	510
S6	P33	J4	40
S6	P4	J2	120
S6	P44	J4	20
S6	P48	J2	100
S6	P5	J22	200
S6	P53	J1	25
S6	P6	J22	120
S6	P7	J1	300
S6	P8	J3	110
S6	P9	J4	180
S7	P1	J2	40
S7	P12	J2	40
S7	P6	J2	40

/\*\*Command 5D\*\*/

# Welcome to the Summer 2021 Project 3 Enterprise Database System

## A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

select \* from suppliers;

Execute

Clear

All execution results will appear below this line.

Database Results

snum	sname	status	city
S1	Michael Schumacher	6	Berlin
S10	David Coulthard	2	London

S11	Bernard Hinault	7	Paris
S12	Eddy Merckx	6	Brussels
S13	Candice Swanepoel	3	Cape Town
S14	Adriana Lima	4	Sao Paulo
S15	Jennifer Lawrence	6	Owensboro
S16	Fernando Alonso	4	Madrid
S17	Rubens Barichello	8	Sao Paulo
S18	Tom Boonen	2	Brussels
S19	Johan Messeuw	1	Eekloo
S2	Juan Pablo Montoya	9	Interlagos
S20	Danilo Rossi	2	Milan
S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thurau	6	Berlin



S21	Lizzie Armistead	1	Hempstead
S22	Jan Ullrich	5	Bonn
S3	Dietrich Thureau	6	Berlin
S32	Bernd Schnieder	2	Berlin
S33	Rolf Aldag	3	Berlin
S39	Candice Swanepoel	15	Cardiff
S4	Mark Webber	5	Melbourne
S44	Beryl Burton	4	London
S5	Jenson Button	9	London
S56	Marianne Vos	8	Zandvoort
S6	Nicola Gianniberti	7	Milan
S7	Christian Albers	3	Orlando
S8	Giancarlo Fisichella	3	Milan
S9	Kimi Rikonnen	2	Helsinki

/\*\*Command 6\*\*\*/

# Welcome to the Summer 2021 Project 3 Enterprise Database System

## A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

```
select sname from suppliers
where snum in ( select snum from shipments
where pnnum in ( select pnnum from parts
where color = 'green' ) ) and
snnum not in ( select snum from shipments
where pnnum in ( select pnnum from parts
where color <> 'green' ) )
```

Execute

Clear

All execution results will appear below this line.

Database Results

sname
Beryl Burton

/\*\*\*Command 7\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

select alpha from jobs;

ExecuteClear

All execution results will appear below this line.

#### Database Results

Unknown column 'alpha' in 'field list'

/\*\*\*Command 8\*\*\*/

## Welcome to the Summer 2021 Project 3 Enterprise Database System

### A Servlet/JSP-based Multi-tiered Enterprise Application Using A Tomcat Container

You are connected to the Project 3 Enterprise System database as a root user.  
Please enter any valid SQL query or update command.

update jobs  
set city = "Madrid" where city = "Paris"

ExecuteClear

All execution results will appear below this line.

#### Database Results

The statement executed succesfully.  
0 row(s) affected  
32 = 32  
Business Logic has not triggered