



Cofinanziato  
dall'Unione europea



REGIONE  
PIEMONTE

# FinTech Software Developer

## Basi di dati SQL

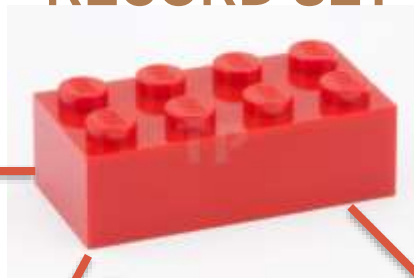
Docente: Roi Davide Simone

Titolo argomento: Sviluppo su Postgresql – Costrutti di querying  
RECORDSET

Roi Davide  
Dispense



## RECORD SET



(  
**SELECT**  
    <colonne>  
**FROM**  
    <recordset>  
**WHERE**  
    <condizioni>  
**GROUP BY**  
    <colonne>  
**HAVING**  
    <condizioni>  
**ORDER BY**  
    <colonne>  
) as recordset





## Data Freshness (Prod⇒Business)

Plant: 141 - Mirafiori



Min Delay  
0:02

Plant: 144 - Pomigliano



Min Delay  
0:02

Plant: 145 - Cassino



Min Delay  
0:01

Plant: 149 - Sevel



Min Delay  
0:01

Plant: 153 Melfi



Min Delay  
0:01

Plant: 158 - Tychy



Min Delay  
0:01

Plant: 500 - Modena



Min Delay  
0:02



Limit delay: 30 minutes

## Tracciati

Plant

Controllo flusso TEAM ALERT (perdita sequenza)

Plant

141

Produzione => Business (Max 30 min)

MIN delay

0:02

MAX delay

0:12

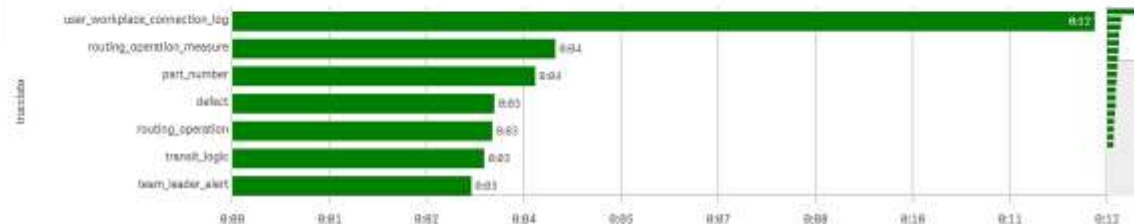
Media

0:03

Scostamento tra tabele

0:02

RITARDO TOTALE: Produzione->Business



Produzione => Stack/Replica

Stack/Replica => File gen.(MQTT)

File gen.(MQTT) => Stag

Stag => Cloud

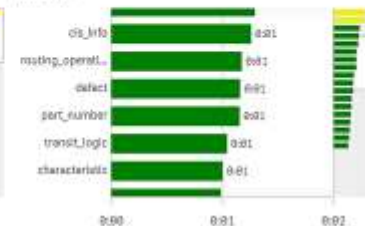
Ritardo:



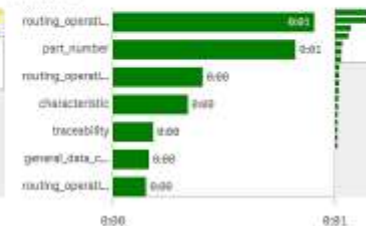
Ritardo:



Ritardo:



Ritardo:



ITS

ITS  
TECNOLOGIE  
DELL'INFORMAZIONE E  
DELLA COMUNICAZIONE

## Data Certification

### RECORD LOST - SOURCE vs DAM

[BACK to General Dashboard](#)

Last Update:  
2023-04-03 16:00:37

Shipping Lost in last 7 days: 0

Plant	Tracciato	dataCertifica	2023-03-26	2023-03-27	2023-03-28	2023-03-29	2023-03-30	2023-03-31
141	defect		-	-	-	-	0.0095%	-
	quality_gate_workplace_transit		-	-	-	-	0.0095%	-
144			0.4115%	-	0.0021%	-	-	-
149			-	-	-	0.0015%	-	-
153			-	0.0002%	-	-	-	-
158			-	-	0.0051%	0.0115%	-	-
CAA			0.0000%	-	-	-	-	0.0000%

### Record Certified (Details)

dataCertifica	Plant	Tracciato	qtaRecord_PLANT	qtaRecord_CLOUD	qtaRecordPersi	percRecordPersi	flagSpedizionePersi	Update CLOUD	Update PLANT
<b>Totale</b>			<b>4862438</b>	<b>4862381</b>	<b>137</b>	<b>0.00%</b>			
2023-03-26	144	transit_logic	243	242	1	0.41%		2023-04-03 01:06:45	2023-04-03 00:51:24
2023-03-31	500	routing_operation_measure	9674	9648	26	0.27%		2023-04-03 01:05:22	2023-04-03 01:01:35
2023-03-27	500	routing_operation	3544	3543	1	0.03%		2023-04-03 01:06:30	2023-04-03 01:01:35
2023-03-29	158	routing_operation	173332	173312	20	0.01%		2023-04-03 01:05:49	2023-04-02 23:16:09
2023-03-30	141	defect	10530	10520	1	0.01%		2023-04-03 01:05:43	2023-04-02 22:20:50
2023-03-28	158	routing_operation	177669	177668	9	0.01%		2023-04-03 01:06:10	2023-04-02 23:16:09
2023-03-28	144	routing_operation_measure	2029610	2029568	42	0.00%		2023-04-03 01:06:22	2023-04-03 00:51:24
2023-03-29	149	routing_operation_measure	1817811	1817811	0	0.00%		2023-04-03 01:06:01	2023-04-03 01:06:01



## Monitoring Source

## SOURCE

## Process Quality (Last 7 days)

[BACK to General Dashboard](#)

Fatal Loading:

1

Fatal Loading:

Date Time	Plant	Layout	Description
2023-04-01 15:33:03	141	monitoraggio_templistiche	ERRORE FATALE SP_ESTRAZIONE_mo riferita alla prossima esecuzione.

LOADING over 10'

0

Last Run - Stored Procedure LOADING (timing min)

Tracciatore	Plant						
	141	144	145	140	153	158	500
<b>Totale</b>	0	1	0	0	1	3	0
quality_gate_workplace_transit	0	0	0	0	0	3	0
part_number	0	1	0	0	1	0	0
anag_defect	0	0	0	0	0	0	0
anag_operation	0	0	0	0	0	0	0
anag_plant_layout	0	0	0	0	0	0	0

Fatal Extraction:

3

Fatal Extraction:

Date Time	Plant	Layout	Description
2023-04-01 15:33:04	141	monitoraggio_log	ERRORE FATALE SP_ESTRAZIONE_monitorag esecuzione.
2023-04-01 15:30:33	141	cis_info	ERRORE FATALE SP_ESTRAZIONE_cis_info: S

EXTRACTION over 2'

0

Last Run - Stored Procedure EXTRACTION (timing min)

Tracciatore	Plant						
	141	144	145	140	153	158	500
<b>Totale</b>	0	0	0	0	0	0	0
anag_defect	0	0	0	0	0	0	0
anag_operation	0	0	0	0	0	0	0
anag_plant_layout	0	0	0	0	0	0	0
characteristic	0	0	0	0	0	0	0
cis_info	0	0	0	0	0	0	0

## Cloud LOG (Last 7 days)

 Last Update:  
2023-04-03 14:00:37

CLOUDLOG_IdRecord	CLOUDLOG_I livello	CLOUDLOG_tracciato	CLOUDLOG_descrizione	CLOUDLOG_dataOra
10324825		quality_gate_workplace_transit	fine SP_CARICAMENTO_quality_gate_workplace_transit	2023-04-03 04:10:08 PM
10324824		vehicle_key	fine SP_CARICAMENTO_vehicle_key	2023-04-03 04:10:08 PM
10324823		vehicle_key	inizio SP_CARICAMENTO_vehicle_key @IdRecIniziale:8240977 @IdRecFinale:8240993	2023-04-03 04:10:07 PM
10324822		routing_operation_noexec	fine SP_CARICAMENTO_routing_operation_noexec	2023-04-03 04:10:03 PM
10324821		routing_operation_noexec	inizio SP_CARICAMENTO_routing_operation_noexec La procedura è già in esecuzione per questo PLANT.	2023-04-03 04:10:03 PM
10324820		quality_gate_workplace_transit	inizio SP_CARICAMENTO_quality_gate_workplace_transit @IdRecIniziale:1198813833 @IdRecFinale:1198823037	2023-04-03 04:10:02 PM
10324819		general_data_collection	fine SP_CARICAMENTO_general_data_collection	2023-04-03 04:10:02 PM
10324818		general_data_collection	inizio SP_CARICAMENTO_general_data_collection @IdRecIniziale:18439395 @IdRecFinale:18439516	2023-04-03 04:10:02 PM
10324817		industrial_order	fine SP_CARICAMENTO_industrial_order	2023-04-03 04:09:50 PM
10324816		industrial_order	inizio SP_CARICAMENTO_industrial_order @IdRecIniziale:13865705 @IdRecFinale:13865812	2023-04-03 04:09:48 PM
10324815		defect	fine SP_CARICAMENTO_defect	2023-04-03 04:09:45 PM
10324814		defect	inizio SP_CARICAMENTO_defect @IdRecIniziale:164306410 @IdRecFinale:164306847	2023-04-03 04:09:44 PM
10324813		vehicle_key	fine SP_CARICAMENTO_vehicle_key	2023-04-03 04:09:43 PM
10324812		vehicle_key	inizio SP_CARICAMENTO_vehicle_key Nessun record da caricare dalla tabella STAG	2023-04-03 04:09:43 PM
10324811		vehicle_key	fine SP_CARICAMENTO_vehicle_key	2023-04-03 04:09:41 PM
10324810		vehicle_key	inizio SP_CARICAMENTO_vehicle_key @IdRecIniziale:8240964 @IdRecFinale:8240976	2023-04-03 04:09:41 PM
10324809		part_number	inizio SP_CARICAMENTO_part_number @IdRecIniziale:12377042330 @IdRecFinale:1237729525	2023-04-03 04:09:39 PM
10324808		electronic_control_unit	fine SP_CARICAMENTO_electronic_control_unit	2023-04-03 04:09:35 PM
10324807		electronic_control_unit	inizio SP_CARICAMENTO_electronic_control_unit @IdRecIniziale:274216105 @IdRecFinale:274216514	2023-04-03 04:09:35 PM
10324806		vehicle_identification	fine SP_CARICAMENTO_vehicle_identification	2023-04-03 04:09:24 PM
10324805		vehicle_identification	inizio SP_CARICAMENTO_vehicle_identification @IdRecIniziale:13838850 @IdRecFinale:13838922	2023-04-03 04:09:23 PM
10324804		vehicle_identification	fine SP_CARICAMENTO_vehicle_identification	2023-04-03 04:09:18 PM



Fine della Presentazione