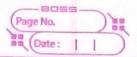
Hssignment - 3 Date: Explain 2-tier and 3-tier database 2 - Tier Architecture: The 2-tire architecture is sume as basic client-server. In the two-tier architecture, applications on the client end can directly communicate with the database at the gerver side for this interaction API's like ODBC. JDBC are used. The user interfaces and application programs are run on the client-side. The server side is responsible to provide the functionalities like: query processing and transaction management. To communication with the DISMs, client--side application estabilishes a commetion with the server side. 3 - Tier Architecture: The 3-tire architectture contains another knyor between the client and server. In this architecture sclient court directly communicate with the server.

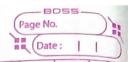


The application on the client-end interacts with an application server which further communicates with the detalore End user has no idia about the existence of the destablese beyond the application server. The destablese also has no idia about any other beyond the application. The 3- Tier architecture is used in case of large, web application. Write a shortnote on JNBC. Connectivity. is a Javy ABJ to connect and exercise the givery with the database.

It is a part of Java Standard Edition

JOBC API was JOBC grieves to

connect with the database theree are 4 types of JDBC drives JOBC - ODBC Bridge Driver - Native Drivers Network Protucol Privers. hin Drivers

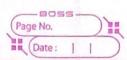


can use JOBC API to P of JOBC APTIVE GOD polate Delete and fetch duta JOBL TAVA Drives APP. Explain APJ Component. tollowing are the main JOBC A Components. 1) The Java SBL Parkage: This Package. Contains set or course and interface that are used to communicate with el gta base. Bridge: The JDBC-ODB.

Bridge is a type of JDBC Priver Hard.

ellows Janu Application to communicate

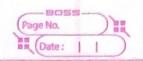
with dutubuse using ODBC drivers.



	3) DBC Diver Tot Ct. The TODG
	Origer Test City of the State
(m)	3) JOBC Driver Test Suit: The JOBC Driver Test Suit it used to test the facultionality of JOBC Drivers.
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(;)	4) Dacument him It apprished de and live
	4) Documentation It provides downertation for all the method, dusses and interted of java. SQL Package HTML formate.
	of igue SQL Parkage MTM/ formate
•	Java 19 32 Jackage VIII 12 Johnson.
(4)	Expluin JOBC Drivers
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	- JOBC WITCH LAND MOULTON SAT THE
	- JOBC Drivers is a softwire component That enables Java application to interact with the database.
	That enables Java application to interact
	with the database.
	Type of Drivers D JOBL - ODBL Bridge Drivers 2) Native - API Drivers.
	D'JOBL - ODBL Bridge Drivers
	2) Native - 17P1 Drivers.
	3) Network Protocol Drivers.
	4) Thin Orivers.
	· O JDB (- ODBL Drivers
	U JUISC - OUBC DIIVERS
	- JOBC-ODBC Bridge drivers uses ODBC
	drivers to connect to the database this
	drivers converts JDBC method calls into
16.2	the ODBL function colls.
	300 a star math and a 2 garden pay.



×=====	the Date:
	- The Notive API driver user the clien
ter free	side libraries of the dutabuse. The drivers convert JOBC Method culled into native colls of the database API. It is not written entirely in Jary
-	3 Network Protocol Drivers.
1000	The Motwork Pretoral Drives uses middleware that convert JBG rells
2' +7	diffecty or indirectly into the sed obtabase protocol It is fully written in JAVA.
	Type of Drivers
-	(F) Thin a Driver 8 3805 - 3807 (
<u> </u>	2) Mative - 1907 Davere
	The thin driver converts JDBC calls
	arrectly 19to The venach specify algrebus-
-	directly into the vender specify detybos- protocol. That is which is known as this Driver.
(5)	Write Shurtmote on JDBC-00BC
21	
7	This driver implement JDBC operation by transacting them into OPBC operation.



To ODBC is Appers as a normal Application program. The Bridge implements JDBC for any clatabase for which on JOBC Driver in ovallable.
The Bridge and contain a notive library use to access JDBL-ODBC
The bridge is a joint clevelopment of intervelor
The Gridge is implement is Java and user java is native methods to call ODBC
The Bridge is istalled Automaticals with the apk as puckage sum JDBL ODBL
Write Advantage & Dis Advantage of JDB Advantage:
Con read any deterbase it process drives are installed. No countained conversion required Query and stored procedure supported. Con be use for both synchronus and Asyncrote Zero configration for network components. Detabase connection Jeentified by UPI

	Page No. Date:
-7	Dis Advyntuges. 21999 (12) 000000000000000000000000000000000000
-7	Correct drivers need to be deployed for each type of database.
- VIVIO	
-	Can't update or inspect multiple tubles with sequence.
	with sequence.
61.	Les to sures JDBC-00BC
Harak	The bridge is a joint elevelopment of