JOBC :- The JOBE APE Contains two major sets of Interfaces Lecter version (700 JDBC APT for application healers JDBC driver 1000-1000 API For drive henders Clotenlases Usoil to Interact kills nulliple data Sources in a dichikuled helirogenous Enumonment Connectiony database from java Languages Il can switch own tolary backet dalabase authors charging source code JOBC Dojuers: - its a Sta Conforent Enailing a Java application to interest with a dis. 4 the JOBC Drices JOBC-CDEC Bridge Driver (Type1-Anice) Native API Partly Tava Driver (TYPES-Drivey Net protocy Rune 1909 Dines (Type 3-Asiles) Matine protocos fine Iqua Drives (Type &-Arriver) (9) Type 1 > [Calling java applicator Functions: - Translate Gury Obtained by IDBC Into Carresponding ODBC Garry, which is then JOBC APE Handled ky the OBC Drices. JOBC Doiles Approsed " Son provides JDBC-ODBC Bridge doice son Jabe odke Jabedber Divier The chine in native Code and not Tava. ODECONIES HOU. Endlimost au clatabases are accessible DATabase Literry APES (P) A TYR/ Cluics is easy to myall Dis Aduq :-(i) The ODBC purious needs to be installed client M/c (Considering the client-side of a reeded, this is not suitable for applets class: 8000. jdbc. odbc. jdbcodbc Driver URL: Jdbc: Odbc:dsnname Calling Tava Program -> Is a dalabase driver implementation that uses the Client-slake hibraries of the dalabase. The driver converts JOBC method caus Ento JOBC APE Mative calls of the dalabase API JOBC Driver Manage/ Ad. Beller Renformance Hear type / Bricer Native APS-driver Dis Act. (i) the client hibrary needs to be installed on cliente (TYPE 3/siven) (2) Comothe used in web-based application due the client Dalabase History APLS Not an clatabase have a client side hibrary Doneris Plateform dependent

13 Driacs - Metworld Protocol Driver: also known as the Rue Java The Far Dalabase middlehille Foretrans - O follows at the ties Commapai (2) Con interface to mulliple da labaro Calling Java Markation 3 The JDBC Client driver healter in Type Communication with middleware net deven JOBE APE Using a dalabase independent Probeof (9) Client -> JOBC prices -> Nudailoware - Not-Solvers JOBE Drives Manage -> Dory dalakan Adva! Esince Communis dalabase independent NE Fevare Booker there is no need vender db Library on our Prives (Mse 312 day) client-M/c (2) Middileware Server (Which ca Can Proceede middleware typical middleware services like caching (Connection grey recuts, and coon), load balancing, logging, acadeting, Ex. (Application serve) DISAGU Regioned dalabase- Specific Coding. An extra layer added may result in a time-tottkneck Different Db Wenda TYPEBY - Driver - Matrice Protocol Oriver calso Known as Direct to Salakos Rue Tava Driver, ica T Calling Java Applied of Function: -(1) entiry neutten in Java that Communicate SDBE API Afrechy through wendows dalabase, would through 1 JDBC-Drives manage Socket Connections (2) The drivers concerts TDBC Caus into the vender-Matine-Project Specific dalabase protocol so that Client can. CTYPE -4 Donce Chrechy Communicate with of Server Clired Callo Client -> Makine Protect JDBC -> Database Server Adva:database all aspects of the application to database connection Protocal Dalabase Can be managed acitain the JUM; this can Dicado Cacilitatio earies debugging 1) At Client side, a selesate divin is needed for each database

Loding Briver
Class. For Name (Java , lang. String Driver (law) or Register Driver (Driver driver)

- Step to connect dalabases

Class . For Name (The class hame of a specific Driver)

Connection (= Drivermanager get Commection (v) of specific Driver, usurabane, Passway)

Statement S = C. Crealestatement ();

Prefactationer p = C. Preparestationer();

Callablestatement car = C. Preparecare;

Defending upon legurement

Jene Exaction

(1) Batch update Exception (2) Data Francation (3) Spl Greption (9) Spl warning