taips of deite beis

```
and NoSQL are two types of databases with key differences. SQL uses a table -based relational model with a
es-kju-el ænd NoSQL ar tu tarps av derte bersiz wið ki diferensiz. es-kju-el jusez e terbel-berst ri lerjenel madel wið e
fixed schema and is ideal for complex transactions and data consistency, scaling vertically. NoSQL, on the other hand,
fikst schema ænd iz ar dil for 'kampleks træn'zækjenz ænd 'derte ken sistensi, 'skeilin 'vartikli'. NoSQL, an ði 'nðer hænd,
employs various data models (documents, graphs, key-value pairs) without a fixed schema, is more flexible and scales
em plozz veries 'dezte 'madelz ('dakjements, græfs , ki - 'vælju perz ) wz 'θaut e fikst schema, zz mor 'fleksebel ænd skeziz
horizontally, being suitable for large volumes of data and applications with low latency and data requirements
hor zantelli, 'bitn' sutebel for lard; 'valjumz xv' dette ænd æple kerfenz wrő lov' lettensi ænd 'dette ri kwarments.
unstructured.
ən strakfərd.
Importance of the databases in testing
m portens av õe deite beisiz in testin
Data integrity verification derte in tegreti verefe kersen
Ensure stored data is correct and consistent
เกาโบร stord 'derte iz ke'rekt ænd ken'sistent
Performance and load testing
per formens ænd loud 'testing
Measure how the database handles large volumes of data and traffic
'mɛʒər haʊ ðə 'deɪtə beɪs 'hændəlz lardʒ 'valjumz ʌv 'deɪtə ænd 'træfɪk
Security testing
sı kjurəti 'testin
           vulnerabilities and ensure data is protected
Identify
aı dentə far vylnərə bilitiz ænd en für deitə iz prə tektid
Migration and upgrade testing
mai greisen ænd ep greid 'testin
Ensure that database updates do not affect data integrity
ɛnˈʃʊr ðæt ˈdeɪtəˌbeɪs əpˈdeɪts du nat əˈfɛkt ˈdeɪtə ɪnˈtɛgrəti
```

for exampol

tulz for 'deitə beis 'testin'

```
Database Testing Strategies
 dertə bers 'testin 'strætədiz
unit test: Testing focuses on verifying that each individual
                                                                                                                                                                                         unit of code works correctly.
                                                                                                                                              ində vidəwəl junət vv koud warks kə rektli.
 junet test: 'testɪŋ 'foʊkəsɪz an 'verə faɪɪŋ ðæt itf
- integration test: It focuses on verifying the correct interaction and communication between different modules or
- ıntə greısən tətə : it 'foukəsız an 'verə fairi öə kə rekt intə ræksən banış mey benış mey ben
components of the system.
kəm pounents Av ða isistəm.
- functional testing: focuses on verifying that an application meets specified functional requirements
- fʌnk[ənəl ˈtɛstɪŋ: foʊkəsɪz gn ˈvɛrə faɪɪŋ ðæt ən æplə keɪ[ən mits ˈspɛsə faɪd ˈfʌnk[ənəl rɪ kwaɪrmənts.
 - regression tests: focuses on verifying that recent code changes have not introduced new bugs or negatively affected
 - re gresen tests: 'foukesız an 'vere faiin öæt 'risent koud 'tsemdyez hæv nat intre dust nu bagz or 'negetivli e 'fektid
existing functionality
ıg zıstın fʌŋkʃə nælıti.
Tools for Database Testing
```